Title word cross-reference

#FluxFlow [ZCW+14].

(X,Y) [BBD+11]. + [CMP09, FWG09, QWC+09, WC11, ZZG+12]. 1 [SZB+09]. 2 [AL06, AJDL08, AHKMF11, ARH+15, AJ19, BBI09, BSHH15, CKW+12, DNP07, DHi13b, DMC15, GRT17, GSS+19, GJR+14, JDL09, LKJ+05, LWS+17, LRN96, LJL04, LKR+18, LLCD11, LCS+12, LFR03, MSA17, NHYY18, PQMC17, PGT+08, PMW13, QCT13, RKG+11, RF11, SZB+09, SMH+07, SMN12, SWCR15, SS13b, TWHS05, TKAM06, TIK15, WWYS04, WLL+05, WTL+09, Won16, YHH+19, YEII12, ZWZ+13, ZWR14, vWN04]. 2.5 [APV+15, YSL+13, YJL+15]. 3 [ARH+15, AHR+11, BSB+18, BGCS17, BF01, BIAI17, BTB10, BTHD11, BC12, CWZ+14, CWL12, CPW+18, ChLYL09, CC08, CZN+11, CMK15, CCM11, DDP14, DHL09, DMR04, DBW11, DRHK07, ERL+13, ET08, FW08, FYTL19, FCL09, GCL+15, GW13, GRT17, GCL+18, GIS03, GJR+14, GPP+16, HDBC15, HE06, HLL97, HLRC+12, HM10, HLYL18, IFP97, IFM14, JSG03, Jk16, Jnc+15, JDL09, JBS06, JCWD14, KSG+16, KZL07, KHS+19, KCA16, KLG+16, KCK+19a, KYT+18, KKWO5, LYY+16a, LS07a, LH03, LD09, LKL+15, LYL19, LKR+18, LDN11, LJZ12, LL05, LY06, LB17, LGS12, LODI16, LSM03, MS08, MWSJ14, MW99, MCHM10, MAST16, MCG12, MH10, MY14, MJK06, MDS16, MES+11, MWC+12,
NWHWD16, NB95, NQX+05, NHYY18, OA11, dJOBNM17, OH06, PDRK19, PBO+14, PK88, PLW11, PLW12, PZ03, PZ07, P987, PUN11, P1M+19, PGI+17. 3 [QY07, QW+01, RSBB17, RZH+11, RT+12, RKZZ19, SK16a, SW+12, SBV+11, Sel+15, SKYS14, SPP+14, SPB+96, SW+97, SW+16, SGJM18, SKW+11, SBW17, SK+19, SW17, TKTN09, TCL+13, TNT17, TMWS13, T+09b, T+12, TKAM06, TLC+10, VCP06, VAB12, VW+12, Vas+16, WH09, WWC+14, WM18, WTL+09, WQZ+18, WB08, WSE+07, WFG+19, WXY17, WCB+12, WLDW11, XCZ+19, YOS13, YPR17, YLSL11, YL95, YHH+19, YSI+10, YE12, YE16, ZTP05, ZT+17, ZPP05, ZCFL15, vLB+16, zBBK+14]. 360 [LXRY18, MS18a, ZLK+18]. 4 [BCR19, SKC+19]. 4 [BB09, BPM+13, CTGH13, CFHH09, HDJ05, INCB18, KGF+13, LHC16, ZH07, ZWR14, vPB+10, vPB+11]. 6 [GL17]. 8 [HDJ05]. 2 [BJK+16, SB17, XCF+19]. 3 [RPAC17]. N−D [NM13]. f : R3 → R2 [SSC+16]. h(p) [NK06, KBBB17]. K [Zha14, CK10, KHM+98, VPF+15]. k+ [VPF+15]. L0 [GXW+18a, GXW+18b, SSW18]. μ [BWS+19]. N [HR01, OHWS13]. ν [Nie04]. p [ZK14a]. R [FGF+05]. √3 [WQ+07]. ≥ [OBL17]. Z [KYK11, WHL16]. || [BJK+16].

-Clustering [BB+11]. -D [MS08].
-dimensional [ZWR14, HR01]. -DOF [GL17, TIK15]. -DOFs [KHM+98].
-Functions [FGF+05]. -Nearest [CK10].
-Partition [ZK14a]. -Quaternion [Nie04].
-Subdivision-Based [WQ+07]. -Test [KYK11].

1 [ZCD19]. 1.5D [SW+15]. 11 [RPHI08]. 1115 [CWDH09]. 15th [KHE10].
2 [CD19]. 2000 [Var01]. 2005 [LS07, GRO6, SW+06]. 2008 [CR08, EDF08]. 2009 [Ano09e, Ano09d].
2010 [Ano10c, Ano10d]. 2011 [Ano11i, Ano11c, Ano11d]. 2012 [Ano12e, Ano13c, Ano13d, HKQ+13, Ros+13, Sch+13].
2013 [Ano13t, Ano13u, Ano13e, Ano13f, Bil+13, CLS13a, Fuc+13, GJK+15, MY14]. 2014 [Ano14e, Ano14g, Ano14f, BHTY15, JLS15].
2015 [Ano15e, Ano16b, Ano16c, LST+16, WLN17]. 2016 [Ano16d, Ano16e, DIL+17, Ebe+17, Mel+17, Ota+17]. 2017 [DS17a, De18b, DW+17, Han+18, Hec+18]. 2018 [Ano19a, BKL+18, Car+19, DS+18a, Ynn+19].
2019 [MSW19]. 2nd [KBB+18].

3D [PKMR15]. 3DCT [AHRG10].
50 [BWS+19].
6 [BDF16]. 6-DoF [BDF16].
7DOF [CLW18].

Abstract [BM13, CL06, MHD+18, PTC10, SPL+13]. Abstracting [MJW+13]. Abstraction [AAFW17, CCM+14, CG07, CRY+06, EBB+15, JER+16, KLC09, KMM+13, LWCC18, SMER06, VI+18, ZMT+19].
Abstractocyte [MAAB+18]. ABySS [NJBJ09]. ABySS-Explorer [NJBJ09]. Accelerated [BC+12, KMH11, LM05, MK09, PSR+17, QMK+06, SH00b, FM07]. Accelerating [LCDP13]. Acceleration [KRHH11, LQLX14, RGC+14]. Acceptability [KL+09]. Accessibility [KKMS11, SR00]. Accessible

Algorithm [AGY+17, Ano96b, BMR+99, BKS01, BW00, BLW14, CL18, ChiLY09, CMF+18, CL09, DDB13, DSF+14, GH00, Gor02, HK99, HSL19, IH01, IYK01, IYK04, KN04, KS00a, KS00b, KS01, KDBB17, LKHW04, LMG06, LDX10, LYY+16b, LSJ96, LB03, MS08, MM11, MPG+14, SK98, SP96, SI95, SM97, TLH10, WTL+09, XA09, YYSZ06, YNM15, YPR17, YXSH13, Zha14].

Algorithms [AZM12, BLS04, CS07, FH+12, HBT14, KW01, LLG17, PML97, PPP12, SJL+18a, TD95, TWSM+11, WCC+19, WHR02, XMM+19b, vLBB16]. Alias [SK99]. Alias-Free [SK99]. Aliased [SF19]. Aliasing [CMFL16, MT05].

Aligned [CS08, CSC06]. Alignment [ADG11, FA15, JKM06]. Alignments [WWFT03]. All-Frequency [HXP+15, LHLW10, SHR+11, WPC+13, XJF+08].

AllBoard [DSC+16]. Allocation [DDBR+19, HLG+14, MMT+14]. Almost [PTC10]. Alone [LKS+19]. along [WM18].

Alpha [WM19]. Alphabetically [WBDS11]. Altering [SMP17]. Alternate [CG14]. Alternative [PDW+14, SAB+16, HS1K09]. Ambient [ASW13, AD16, HLY10, LKS+19, PMP10, RB11, SMG+13, SVGR16, TCM06].

Ambiguity [AJ19, LCLM12, WSA+16]. Ambiguity-Free [LLCM12].

AmbiguityVis [WSA+16]. Ambiguous [KNKH19, KCC+17]. Ameliorating [RMW09]. Among [KGS98, AL06].

Amongst [CC07]. Amplified [RSBB17]. AMR [Ano09b, ME11b, SP07]. AnaFe [GDKB17]. Analogy [RM15, SVK+07].

Analyses [GLK+13, JBS+18, JA18, KTB+18].

Analysis [AHSS14, wAPS14, AHK+17, AAMH13, AHRG10, AAVG18, AAGS19, ABC+19, ASG15, BSS+13, BMJK09, BRT12, BBD+11, BE18, BK16, BKL+11, BLM96, BMLC19, BMWM06, BAAK+13, BBP14, BC10, BAF+13, Bon98, BPM+13, BISM14, BNTM16, BWT+11, BDW+08, CGS011, CSL+16, CLG16, CM10, CD19, CZL17b, CHW+18, CGJ19, CWQ+07, CDM+16, CRT04, CDK+17, DVP+14, DLW+17, DvVH+19, DSG+17, DFH+14, DTW+15, DCK+12, DS16b, DCh+17, DB07, Eic00, EJR+14, FPB17, FCZ15, FMH08, FHH+09, FZC+17, FGF+14, KG+13, GMS+07, GMD13, GSL+17, GJC+17, GGA+11, GHL18, GLG+13, GRVE07, GQM+18, GX+12, GZX+18, GJG+19, GWK12, HSCW13, HBG11, HEFR18, HDSC19, HMSA08, HTP+08, HKB+19, HV00, HMZ+14, HPVU+18, HLG+14, HZ13, HOGJ16, JFSK16, JBM09, JCG08, KPHH12, aGKS11, KBE+18, KMDH11, KH13, KHS+19, KJW+18, KCS+16, KOJL+14, KLG+16, KBGE11, KJW+14].

Analysis [KMG+06, KBH06, KFS+19, KGG+12, KRR19, KCP08, Lac96, LSSB12, LBS13, LTM18, LBW19, LS1b, LSPS10, HGY12, LPLT11, LMC15, LBL+06, Lin16b, LSS09, LH14, LS16, LSL+17, LXR19, ME18, MHS07, MEV+14, MS04, MKN+07, MMB+19, MGKH09, MGJ+10, MBL+06, MBB+19, MMDP10, MBB+12, MDH+07, MGB+09, MZC+16, NMGK17, NDR96, NTT+19, OJ15, OJB16, OSSK12, OJW16, ODH+07, OHWS13, PVF13, PYHZ14, PH11, POM+09, PV06, PBC111, QCX+07, RESC16, RBS+18, RS12, RAL+17, RWF+13, RML12, RFL18, RK+16, RGC+14, RB18, SZS+17, SKB+18, SPP06, SJ+17, SCT+10, ST17].
Anomalous [CSL+16, XXM19a, ZCW+14].
Anomaly [CLZ+18, XXM+19b].
Anonymizing [WCC+18].
Anthropomorphic [TAK+05]. Anti [CMFL16, SF19]. Anti-Aliased [SF19].
Anti-Aliasing [CMFL16]. Antialiasing [MMS+98, MRT00, SPW02, VT08].
Anticipation [MZH+08]. Any [BWC04].
Aorta [RHR+09]. Aortic [BRNB19]. Apart [FFB18]. Apertures [BRNB19].
Appearance [JWD+14, MSM+11, SHM10, SLB04, Toy02, VBC+16, Zho16, ZKM18].
Appearance-Based [MSM+11]. Application [ACR+19, BTB+04, BGM+17, DMR04, GGA+11, HLRC+12, HFG+12, KKPS08, LLBS17, LKC09b, LRF+11, MTB17, OMD+12, PFP+11, PM08, PNML08, PPP+11, STS10, SD11, SGM08, YNYH06, ZWA+13]. Application-Driven [ACR+19]. Applications [AB01, BI12, BSO+12, BJK+16, CCAK19, COCS03, CSM07, FDFR10, GXX+13, GGTH07, GMM05, Gü01, HQ13, Hub95, ISCO7, JKJTM06, JBS06, Kei00, LLT04, LL04, MGP06, MK13c, NTS11, QMK+06, RF11, RSD+13, SJL+18a, SLA+09, SXM17, SWC+08, SK13, Ste98, WGS07b, WDC08, XXM19a, YL16, YML+17, YXM+15].
Applied [Kin10, SCT06, dLVvL06, vAPP+11].
Applying [CLB13, HSTD18, SKK+14, TFO09].
Approach [ADWK+17, AAGS19, BMD05, BMA+19, BJK+16, BW01, BMW17, CBL07, CBB11, CHW+18, CGJM19, CGH+19, CXM19, CSWP18, DC17, DGW11, DBB10, DSC+08, DCKY02, FM12a, FHH+09, FBS05, GNPB11, GIK+07, GNP+06, GBHP08, HBJP12, HM05, HBW06, HZM13, HNR+06, HZM+16, KHA12, KLYE13, KS02, KTE15, KGZ+12, KY06, KCM18, LBS13, LVRH07, LAK+11, LT18, LXC+17, LLZ+16, LSPW12, MY96, MRH+10, MHR+11, MB19, NR18, NSL19, OJ15, OH006, PBN+13, PSPM15, PSF09, PGL+12, PSR17, RKK16, RE14, RFL18, STS06, SS08, SS16, SAS16, SKU+12, SP08, SC15, SA19, SBB19, TMWS13, TW216, TLM05, VFR13, WAM+19, WM08, WGY18, WFC+18, WCC+18, WASQ18, WGSY19, WQZ+18, WBH04, XCH+14, XZM17, YHH+19, ZHF12, ZHL13, ZGM18, WW08, YEH16, WBD14].
Approaches [CK05a, FHKM17, FTES13, HB13, JAAL18, LD11b, KMT+18].
Approaching [WAWS18]. Approximate [HMTR19, HQ07, JWD+14, KMDZ10, RMCW19, TFO09, Wan11, Wil12].
Approximated [PLvdM+17].
Approximating [HTF97, JSG03].
Approximation [BYA15, CGL+17, GGZ+18, LMRZ11, PA06, RKSH11, SCOIT05, WXC+08].
Approximations [GSG96, HJW99a, HJW99b, KOH1, LDM17, WBH04]. ARbis [IH+18].
Arbitrarily [PH07]. Arbitrary [BW+12, HB03, KLS+18, LLLF08, LTWH08, LBG+08, LJWH08, LH+04, NPPZ12, RKN+15, RE14, VFP+11, WDC08, YXSH13, ZC06]. Architectural [SYYC11]. Architecture [ARB07, BW+12, BWM+18, LLLF08, LTWH08, LBG+08, LJWH08, LH+04, NPPZ12, RKN+15, RE14, VFP+11, WDC08, YXSH13, ZC06].
Arm [TAK+05]. Arrangements [CDK04, DLSM17, LDN11, NSZ+17, RSFH14, SMN16, TGS11, Wil12, XHL18, ZSG+13]. Area-Based [LDN11].
Area-Preservation [ZSG+13].
Area-Preserving [TGS11].
Area-Proportional [RSFH14, Wil12].
Areas [EIKS18, MVN+19]. Arithmetic [LQLX14]. Arithmetic-Based [LQLX14].
As-Rigid-As-Possible [LG15],
As-Similar-As-Possible [LG13],
Ascending [NM+18],
ASCII [XZ+17],
ASK [AvHK06],
ASK-GraphView [AvHK06],
Aspect [FHSW13, JE13, WWZ+18, WWF+19],
Aspects [CZ11], Assemblies [LSZ+18, NJBJ09], Assembly [CPG+15, DBP14, MLS18, SLMA06, XMR17],
Assembly/Maintenance [SLMA06],
Assessing [BRBF14, CB15, DBP14, MDF12, WCC+19, YAE07], Assessment [ASMP17, BTS+18, GO15, LKK17, MMK+17, WM08, ZZH19, vLBB16, HS16h], Assignment [RC06, SS16, WCC+19], Assist [HTP+08, aKGS11, SBB+18], Assistance [FM06, MSA17, WWYP19], Assisted [CICS05, CCJ+19, HRR+08, IV11, LAK+11, LMC02, RLW+11, SKKC19, WSH+19], Associate [De 18b, Lin14c, DS16a, DS17b, DS18b], associated [HSCW13], Association [LS16],
Associations [HV13], Assurance [TTR10].
Astroglial [MAAB+18], Astronomical [WAG+12],
Astrophysical [LFH06, LFLH07, LFH08], Astrophysics [SKW+11],
Asymmetric [BN11, PLC+11a, ZYLL09],
Asymmetrically [KHSS14], Asymptotic [AJ19, CGL+17], Asynchronous [BSM06, KZX+14, ZGI+18],
Athletes [SB14], Atlas [FFST19, KST+16, SLK+17a],
Atlas-based [SLK+17a], Atlases [TDN+12],
Atmospheric [KHS+18, KHS+19, SYS+06], Atom [PDFE18], Attachment [KHL99, WLHD17], Attack [RPHI08],
Attempt [MNKT01], Attended [LK09b],
Attention [Fis07, HW12, HE12, HLRC+12, KV08, VFS06, WLB+14],
Attenuation [SCT06], Attraction [DBD17, DBBF19, ZK10],
Attractive [WLB+14],
Audio [DDBB19, SM16, SRKL19],
Audio-Material [SRKL19],
Audio-Visual-Olfactory [DDBR19],
Auditory [AGN+19, RYKL13],
Augmentation [HDBC15, IAS19, TYL+18],
Augmentations [OTKS15], Augmented [BSB+18, BBC15, BBM18, BDB+16, BSE+17, BLO+05, BLRW05, CDAF18, CMPC06, EPS+15, EIKS18, FM04, GS08, GLM+17, GKR14, GJ15, GLZR17, HBES11, HHI+18, HCP+15, HBS09, HAGS16, HJLH19, HF10, HF11, HV00, IHD+18, JLS15, KMS09, KSNY17, KGAM18, KBB+18, KM10, KHSB11, KYT+18, KV08, LH09, LBS+16, LG12, LBDK09, LABS10, LDFZ14, MMT+16, MNZ+15, MUS16, MK13c, MKT+18, NJSN11, OSB+15, PLW12, PTM+18, PIS15, RHJ+16, RWF18, RBDG15, RJG17, SH00a, SYYC11, SJK+07, SFE15, TN13, TGG+95, UMW+12, VGKS12, VBV+18, WRM+10, YC14, YON05, YON06, ZRLR14],
Augmenting [SDES19], Aura [QY07],
Aural [AM13], Auralization [TCM+12].
Bertin [PDF14, PGU12]. Bespoke
[RLB19]. Best [De 18b, HJW99a, HJW99b, Lin14c, Mel17, MFS+09, WBH04, De 18b].
Better [CLT+11, LSL+17, LBLE+14, WCD+19, WWS+16]. Between
[HWG18, HK+19, LDM+18, PML97, BDFM17, GJZ+12, GSL14, KLM04, LPK+13, LK+13, LKM+18, RSRS+16, SH12, TCYM09, WB05, YP+13]. Beyond
[BBK+16, BAW16, LRLW18, JD13, KH16, LIRC12, TNg17, WB14]. Bézier
[HW19, HFT97]. Bezégon [YCW+16]. Bi [WYP+15]. Bi-Normal [WYP+15]. Bias
Biclustering [SHR+11]. Biclusters [SMNR16, ZSCC18]. Bi-connected
[AMA06]. Bidirectional
[JWD+14, LHZ+04, ZDW+05]. BiDots
[ZSCC18]. Big
[FPV+13, NHEM17, PSSC17, Wil18]. Bi-harmonic
[HHQH17, XYGL13]. Bilateral
[Wan06, ZFAT11]. Billboard
[LWL+17]. Bimanual
[MLS18, HWA15]. Binaries
[YC14]. Binary
[FWT+04, KOY+03, MS08, SMDS+14, TDR10, YRP18].
Binary-Space-Partitioned
[FWT+04]. Binding
[Ddl14]. Binning
[PQMCR17]. Binoculars
[OSB+15]. Bintree
[LFR03]. Bioinformatics
[SND05]. Biological
[BMGK08, KAK+18, KCK+19a, LPK+13, MRSS+12, MCS+08]. Biology
[MiS+18]. Biomechanical
[KERC09, MGL07, PBO+14, WHM14]. Biomedical
[HSSK16, HNR+06, JST+10, NGK18]. Biorthogonal
[WQS07]. Bipartite
[CXDR19]. Biped
[TLC+10]. Bipolar
[BFL06]. Bird
[FLF+11]. BirdVis
[FLF+11]. Biscale
[SHR+11]. Bisection
[HJW99b]. Bisections
[HJW99a]. BiSet
[SMNR16]. Bitcoin
[YSS+19]. BitExTract
[YSS+19]. Bitmap
[PMH18]. Bivariate
[NASK18, TC17, War09]. Black
[MPG+14]. Blended
[ATK16, MB19]. Blending
[CWM09b, HSKH07, HLYL18, KGZ+12, PSG04, PB13, WXJ17]. Blind
[ZTP05]. Blinded
[DJ18]. Blinding
[SFC+07]. Blindness
[MXW+13, SBHW11]. Blob
[JPLS16]. Block
[MWC+12, YL06, BCP+10]. Block-Based
[YL06]. Blockwise
[YSD+17]. Blood
[BPM+13, GBNP11, HTP+08, KG+13, LLL+12, LGV+16, PH07, vPPB+10, vPPB+11]. Blood-Flow
[vPPB+11]. Blowups
[SS13a]. Blue
[AGY+17, CYC+12, CCS12]. Blue-Noise
[AGY+17]. Blur
[IAIK16, PLW12, SYY+18, SBE+15]. Bodies
[ELF13, GSM+14, KWC+10, ORC07, SSF13, TF06, TZL+12]. Body
[AdLH13, CPW+18, CCT+16, Cse10, Cse13, Dan16, Dru08, EVM08, KBS13, KFL+15, LWP+06, MZH+08, MDB18, PDBG18, SM04, SL08, WGR+18]. Body-Swap
[Cse10, Cse13]. Body-Swap
[PDBG18]. Boltzmann
[AEM09, GLX17, LPQF14, WLM04]. Bone
[KSS09, WAWS18]. Bone-Like
[WAWS18]. booc.io
[SST+17]. Boolean
[Ros11, FGF+05, Ros11, Wan11]. Boosting
[LXL+18]. Bootstrapping
[SKL+11]. both
[CDAF18, YNBH11]. Boundaries
[SBSG06, WH18, ZM17]. Boundary
[BPB14, CMF12, DBTH07, IK95, LJWH08, LJHY14, RDB+12, SAS16, Wan08, WM13b, WWC+14, WTS+07, YXG+13]. Boundary-Aware
[RDB+12, YXG+13]. Bounded
[HPAW07, HYB+17, LSY+18]. Bounding
[KMKY10, KHM+08, MB18b, SE18]. Bounds
[TH99]. Bowman
[Ant14c]. Box
[EM06, EVM08, KEP08, Kim13, MPG+14, SK13, MPK+13]. Box-Spline
[Kim13]. Boxplot
[MWK14]. Boxplots
[MWK13]. Boy
[DHL09]. BPH
[ZSS10]. Brace
[Chi16]. Brachytherapy
[LD+18]. Brackets
[TSLR07]. Brain
CasCADe [INCB18]. Cascading [AS98].
Case [BVl06, FWD+17, GGZL16, JCRS09, aKS12, LD11b, MRSS+12, PLC+11b, SS06b, dLV+L06]. Cases [BLS04]. CAST [YEI16].
Casting [HBAB14, HK99, KHW+09, LGM+08, LY+10, RPSC99, SMP11, SF14, SM97, WJ08, WK+17, vAPP+11]. Casual [BCR19, PSM07]. Catalog [SJMS19].
Categorical
[AMG12, FWD+17, HV13, KKH06, LSS13, SS16, UDSL18, WPS+09, XZM17, ZMZM15].
Categories [BSG18, KPBG13].
Categorization
[FF16, KBH06, LSS13, SS16, UDSL18, WPS+09, XZM17, ZMZM15].
Category [BN13, HOGJ13].
Cellular
[DA07, MA08, MC+08]. Center [RPH08].
Centered
[CB10, CB11, EVM08, GDD+13, HHH+17, KEP08, LD11b, MAR18, PQF+09].
Centralities
[HSZM+16]. Centrality
[BKW03, CMC12]. Centralized
[LKZQ17].
Centric
[KBJL+14, LCMH09, SKK+14].
Centroidal
[LSPW12, RIL+11, YY16].
Cerebral
[GNBP11, GL+P+12, MVB+17, OJCP16, BMGK08]. CFD
[CMN13, HOJGJ13]. CG2Real [JDA+11].
CGLX [DK11b]. Chains [RS12]. Chairs
[Ano14o, Aol16p, Ano16q, BSI18, BRS18, CKB14, IKL14, Ano13o, Ano15m, CCGF18, CFFK12, CSL13b, DLM+12, vHMM+11]. Challenges
[Nie96, WFS+19].
Challenging
[PK08]. Change
[GGPPS13, KBH+10, LH16, MX+13, RCL+15, SBHW11]. Changes
[HHW+02, JBCS09, LMM+06, NSH+18, SCL+12, TS07].
Changing
[BS16, DHM13a, SFMB12]. channel
[WOCH09, WBD14]. Character
[ASvdP14, BMST97, DDL14, KJ12, KCP+08, yKL12, LPG+18, MAF11, SKY12, TLC+10, VBB17, VSS08, ZKM18]. Characterise
[JAAL18]. Characteristic
[HVSW11].
Characteristics
[BS02, GL+P+12, YAE07]. Characterization
[HEW03, HE+17, MY96, MAR18].
Characterizing
[CGM+17, FBW16, GGJ+18, GBP+13, GBCG+14, RESC16, WMK13]. Characters
[HK09, MNZ+15, SPW07, ZKM18].
CHARM [FYZ+17]. Chart
[KA12, RLB19, RM+19, TJW+17, WBJ16].
Charticulator
[RLB19]. Chartification
[BKLL09]. Charts
[DDW14, DJ18, HAO18, KHD07, TSA14, WWZ+18, LTWH08]. Chase
[vW14]. Checks
[AMSP17, CLKS19].
Chemical
[GBCG+14]. Chemistry
[JY09].
Chess
[LW14]. Chief
[LBH14, A13a, A14n, Aol15, Aol16n, Aol16s, De 15d, DS16a, DS17b, De 18a, De 18b, Et07a, Et07d, De 16a, Flo17, Ha03, Kau08, Lin11, Lin11c, Lin12e, Lin12a, Lin13e, Mue19]. Child
[BGC+11]. Childhood
[JAM+14].
Children
[AN+18, BBC15, PM+055]. Chinese
[HQQ12, LCC+17, TDM+18].
Choices
[SMT13]. Choking
[FT13].
Choropleth
[ZM17]. Chromium
[PAB+08]. ChronoLenses
[ZCPB11].
Chunked
[SE18]. Circle
[YLG+14].
Circles
[BSSL19, SZHR11, YR95]. Circular
[DBD13, WSPV11, Wil12]. CiSE
[DBD13].
Citation
[BMS17, HHEK16].
Citation-Driven
[BMS17]. cite2vec
[BMS17]. CiteRivers
[HHEK16]. Cities
[CW+07, MLD+17, MBP+18]. City
[AERA14, MLD+19, PY09, ZZM06, FPV+13]. City-Scale
[MLD+19]. Clark
[QMV98]. Class
[BJY+18, PS12, WC+19, CC+14].
Class-Optimal [PS12]. Classical [CQM10].

Classification
[AHH*14, BGOJ16, BS02, CDS12, CRT04, CM09, GHL18, KKC98, LZH07, ME18, PFp11, PSM15, SWB00, SL18, SPLt13, TKC17, TLM05, ZM17, vdCvW14].

Classifier [HKBE12]. Classifiers
[MQB19, RAL17, WZ19]. Cloudio
[Ano14f]. Clean [GDN07]. Clear [Bru17].

Clearance [KMH11]. ClearView [KSW06].

Cleaving [BLW14]. Click [ZTA12].

Clicking [JNC15]. Clickstreams
[CCL16, LWD17]. Client
[PK03, SKH19]. Client-Server [PK03].

Clifford [ES05]. Climate
[DPW15, JBS09, KBL19, KLM08, PDW14, WLS17, WPS16]. Clinical
[CLB13, KLL12, NGCL19, SSBC19, WSH19]. Clip [SEH08]. Clipart
[YC16]. Clippered [XDN11]. Clipping
[SW98, WM13b, WEO03]. Clips [SJ12].

Clique [RFL18]. clock [SBS16]. Cloning
[ZJX15]. Close [HK09]. Closed
[BKA11, BSG18, WS01]. Closed-Loop
[BKA11]. Closely [YWH19]. Cloth
[BW04, CLMO17, KNO15, SZ15, SSIFS09, WLT18a, WY19a, ZBO13]. Cloud
[APS14, DDN13, HPJG08, LD10, LZH13, MZ16, WC18, YEH12].

CloudLines [KKB11]. Clouds
[BHS12, CLC15, CK10, FFB18, JBS08, LRK10, MOG11, OJH11, OHWS13, TCL13, YEH16]. Cluster
[BDF16, CAN14, GRVE07, KTB18, LWCC18, LLR08, NJOJ16, SKB18, SGM08, YHL08]. Cluster-Based
[CAN14, KTB18, LWCC18]. Clustered
[HBF08]. Clustering
[AAGF18, BBDt11, CD19, CK11, CL09, CZQ08, DDG07, FKRF17, GPR01, HSCW13, HG0t12, KSDD14, KEV18, MB18b, NOB16, OK11, PBN13, PSL12, SK13, TN14, TR12, WCR18, WS09, ZC08, ZAM11, vLBR16]. Clusterings
[PGU12]. Clusters
[CGSQ11, MFS09, SIL95, ZLC19].

Clusterization [KEV18]. Clustrophile
[CD19]. Cluster [ED06, ED07]. Clustered
[BK12, SPP14]. Clutterpalette [YYT16].

CNNs [HTP19]. Co [EPS15, IC07, IFP12, LHD18, TIC09, WXZ16].

Co-Located [IFP12, IC07, LHD18, TIC09].

Co-Location [EPS15]. Co-occurrence
[WXZ16]. Coarticulation [DNL06].

Coating [HL02]. CoDDA [HDSC19].

code_swarm [OM09]. Codes [BAW16].

Coding
[FM07, HCMT15, HPG08, MCA10].

Coefficient [YYSZ06].

Coefficient-Optimizing [YYSZ06].

Coexpression [NKHC08]. Cognition
[LNS08, MWC06]. Cognitive [BSE17, BLS15, BS16, SFR20, TR10, ZLB05].

Coherence [HSR13a, MTM16, tCMR08].

Coherency [BSL12]. Coherency-Based
[BSL12]. Coherent
[CR05, FWSL12, GTH07, GIK07, GHP16, Har16, HVSW11, HPC13, MPT03, RJJ17, SP07, SFB20].

CoHort
[GGC17, KOJL14, KPS16]. CoLa
[DKM06b]. Collaboration
[CC12, GLB16, NJJ11, TIC09, YLC19].

Collaborative [BCB10, BE09, BRNB19, CKA17, GCL18, HTL13, IC07, IFP12, JWL10, KAM08, LI11, LL10, M14, MPG06, RZP12, SKY12, ZGI18].

Collage
[FYF18, LHZ18, WHFL14, YLG14].

Collection [IH17, JDA11, WFS19].

Collections
[DKW16, DWY13, FYF18, HHWN02, HFM16, KK17, LKY12, PM08, RS18, SKK14, ZGW14].

ZLM16, cKJG13, dLVL06].

Collective
[BJC19, HZ14]. Collision
[BC03, BC04, CL18, CCW09, CS08, GSM14, GLM06, Hub95, KGS98, KMT14, KGAM18, KHM18, LC14, LKM18, MB07, MTS07, PML97, RGF14, SH12,
TCYM09, TF06, ZK07, ZK12, ZK14a. 
Collisions [FG99, MNC14, SSIF09]. Colon [GSZ13, NMKG17, ZMG10]. 
GGL\textsuperscript{+}14b, GBP19, SMN12]. Complexity [JWSK07, RBK\textsuperscript{+}15, RMCW19, She97].

**Compliant** [ATK16]. Component [BMR\textsuperscript{+}19, FWL17]. Components [AMA06, HKG07, SNB\textsuperscript{+}17]. Composable [BTB10, BTHD11]. Composite [ALBR16, Jen12, LPF\textsuperscript{+}19, SWvdW\textsuperscript{+}11, SM06].

Composites [BWW\textsuperscript{+}17]. Compositional [JWSK07, RBK\textsuperscript{+}15, RMCW19, Sbe97].

**Complexity** [JWSK07, RBK\textsuperscript{+}15, RMCW19, She97].

**Component** [BMR\textsuperscript{+}19, FWL17]. Components [AMA06, HKG07, SNB\textsuperscript{+}17]. Composable [BTB10, BTHD11]. Composite [ALBR16, Jen12, LPF\textsuperscript{+}19, SWvdW\textsuperscript{+}11, SM06].

Composites [BWW\textsuperscript{+}17]. Composing [GPC\textsuperscript{+}17, KM10, PDM\textsuperscript{+}07]. Composition [BMWM06, KBVH17, KLJ\textsuperscript{+}09, LRN96, LJWH08, TZC13, Trd12].

**Comprehending** [ARH\textsuperscript{+}15]. Comprehensible [KMS09].

**Comprehension** [LR11]. Comprehensive [AR17, TBB\textsuperscript{+}07, WRF\textsuperscript{+}11, XZS\textsuperscript{+}17].

**Compressed** [AYRW09, BRSP18, DWvW12, KMKY10, KKS\textsuperscript{+}19, KM16, Lin14f, PR00a, SD11, WAG\textsuperscript{+}12, YL95, eYL07, PR00b].

**Compressing** [DSKA19]. Compression [BRP19, BDHJ04, BSL\textsuperscript{+}12, CBL07, CKLL09, CM02, CHF95, CHF96, DRMM13, FM12a, GO15, LLPP19, LLT04, LI06, LFR03, MRSS\textsuperscript{+}13, PA06, Ros99, SLW\textsuperscript{+}10, VP04b].

**Compressive** [SD11, ZFS19].

**Computation** [AZM12, BA05, BGT12, CC12, DF96, GGTH07, GNPH07, GBHP08, GBP19, KL14a, KGPB05, LKH04, PSF09, RKWH12, RLW\textsuperscript{+}11, SMN12, Ste98, TC17, WGS07b, YSS\textsuperscript{+}12].

**Computational** [BS0\textsuperscript{+}12, CJTM05, GLK\textsuperscript{+}13, KZX\textsuperscript{+}14, PW12, YESK95].

**Computed** [AHR\textsuperscript{+}11, MBW\textsuperscript{+}07, SA19].

**Computer** [Ano14c, Ano14j, Ano15a, Ano16f, Ano16a, Ano17e, Ano18a, Ano18b, Ano19a, Ano19e, BvdP12, BSM\textsuperscript{+}13, BDC17, CC12, HE12, HQK06, JDA\textsuperscript{+}11, Kas12, KHE09, KS14a, KL14b, LZWQ17, MMCE09, Ota17, PBO\textsuperscript{+}14, RSSA08, SK15, SR00, XZS\textsuperscript{+}17, Yan18, ZLZY18].

**Computing** [ABCO\textsuperscript{+}03, BEK10, BTJ\textsuperscript{+}13, CWZ\textsuperscript{+}14, DN13, GBP12, JZLG09, KLL\textsuperscript{+}13, KSY14, MGM09, MZC\textsuperscript{+}16, MTRP10, NJ99, QCT13, RwVT08, RRJH18, Wan08, WTL\textsuperscript{+}09, XXM19a, XHF12, XWL\textsuperscript{+}15].

**Concatenating** [MCP\textsuperscript{+}06]. **Concave** [JFBB10]. **Concavity** [AZC\textsuperscript{+}12]. **Concavity-Aware** [AZC\textsuperscript{+}12].

**Concept** [SST\textsuperscript{+}17, USKD12, VI18]. Concepts [HJLH19, Ohl18].

**Conceptual** [ASW12, DBD18, SHB\textsuperscript{+}14, ZK10]. **ConceptVector** [PKL\textsuperscript{+}18].

**Concordance** [WV08]. **Concrete** [CVG13, FHG\textsuperscript{+}09].

**Configuration** [LH16]. Configurations [Dac11]. **Configuring** [SDW09].

**Conflict** [BFL06, Kra16]. **Confident** [BRH\textsuperscript{+}17].

**Confocal** [PFK\textsuperscript{+}08, dLVvL06, WOCH09].

**Conformal** [GLB\textsuperscript{+}06, HAT\textsuperscript{+}00, PPZ\textsuperscript{+}12, ZMG\textsuperscript{+}10, ZZG\textsuperscript{+}12].

**Conforming** [GGL\textsuperscript{+}14b]. **Conical** [AG17]. **Conjoint** [GMS\textsuperscript{+}07].

**Connect** [LYY\textsuperscript{+}16b, ZHLB13]. **Consensus** [YNM15].

**Connectivity** [AABS\textsuperscript{+}14, BSL\textsuperscript{+}14, CDK\textsuperscript{+}17, JFTW07, JDL12, LL05, MN07, Ros99, SAM\textsuperscript{+}05, TCYM09, TDN\textsuperscript{+}12, VB13].

**Connectivity-Based** [TCYM09].

**ConnectomeExplorer** [BAAK\textsuperscript{+}13].

**Connectomics** [AABH\textsuperscript{+}16, HKBR\textsuperscript{+}14].

**Conquer** [LYY\textsuperscript{+}16b, ZHLB13].

**Consensuses** [YNM15]. **Conservation** [LTPH17, SSF13].

**Conservative** [KS01]. **Conserving** [CM14, SCKR08].

**Considerations** [BLB\textsuperscript{+}17, Gle18, LIRC12, TM12].

**Considered** [CG14]. **Considering** [KSY16].
Consistency  
[PWG17, Wah14, WCB+18, ZCL+19].

Consistency-Preserving  [WCB+18].

Constistent  
[FYP10, IWR+18, JFF09, LQGQ9, LSS+15, MGP06, QH18, SKMH14].

Constancy  
[FYP10, IWR+18, JFF09, LQGQ9, LSS+15, MGP06, QH18, SKMH14].

Constrained  
[HBT14, MZX15, QCT13, RB07, SLGM09, VML97, WWS+18, YLY+12, ZSCC11, ZGH+18, ZWBH13].

Constrained-Environment  [ZWBH13].

Constraining  [YN03].

Constraint [BLS12, DGM06, GMD+17, Won16, DMS+08].

Constraint-based  [DMS+08].

Constraints  
[CCM+13b, LM96, LCWS96, LYY08, MDB18, MWN+19, OBLN17, QH18, TMD015].

Construct  [GTS10, GTS11].

Constructing  [CMP09, GHJ+98, HJC14].

Construction [BWC04, CTM+13, CK10, DBTH07, DN12, FSTG16, HJW99a, HJW99b, HSZ+11, INCB18, KSAD16, KCH+11, KAK+18, KPS16, KH01, LS02, MB18b, PPT+11, PS12, RLB19, SAR96, TDM+18, VHS16, Wai12, WBJ04, YXM+15].

Constructions [USM96].

Constructive  [HR07a].

Consumer  [LSF+16, Zho16].

Contact  [BDH+18, HK09, IAS19, KFN06, LA11, LL19, MB07, SM04, SLMA06, TF06, XZB14].

Contacts  [AdLH13, CLMO17, SLNB11].

Contagion  [VBC+16, WBA+14].

Containment  [WLSW08].

Contemporary  [VHS16].

Content  [Ano10f, Ano11k, Ano12n, Ano13s, Ano150, Ano16s, Ano16t, Ano17i, Ano17j, Ano18d, Ano18e, Ano14q, Ano14r, CLS13a].

Content-Aware  [CLB+16, LLY+13, YLM+14].

Content-Based  [ADP02, LJJ+18].

Contents  
[Ano10f, Ano11k, Ano12n, Ano12o, Ano13s, Ano150, Ano16s, Ano16t, Ano17i, Ano17j, Ano18d, Ano18e, Ano14q, Ano14r, CLS13a].

Conest [PFG08].

Context  
[BBBM18, BGMG08, BSSB10, BGKG06, CL18, CM16, DZMQ16, FWSL12, FNM13, GMS19, GNPB11, GLZR17, KSW06, LDM+18, LBS+19, MB19, PH07, QWC+09, RGP+12, RMW09, SBB+18, SWS+11, TWSK14, TS08, WBK+08, WLT08, WC11, WWLM11, WP16b, Yan18, YELI16, ZZG+12, vHP09, zBBKN14, Kna10, NH06].

Context-Aware  [BBBM18, CL18, DZMQ16, Yan18, YELI16].

Context-Awareness  [GLZR17].

Context-Preserving  [BGKG06, SWS+11].

Contexts  [BDK98, HHVW96, KZL07, KMT14, OTKS15, WDC07, ZT09].

Contextual  [BAB+18, WKB07, WBK+08].

Contextualizing  [OKB+19].

Contiguos  [KNP04, SKY15].

Contingency  [AAMG12].

Continues  [vW14].

Continuity  [JDRS+18].

Continuous  [BW08b, BSV+18, CWW+09, CRPH10, GPR+01, HW09, KMT14, LT10, LT11, OKB+19, TCYM09, ZK12, vLD03].

Continuum  [BBG+18, EGS03, WM18].

Contour  [CD14, DN13, FIB+14, HSCS11, SB06, TFO09, WMB13, ZT09, LLLN+14, TGSP09, PLS+14].

Contour-Preserving  [LLL+14].

Contouring  [BBF+14, YLL+12].

Contours  [HTF97, SWC+08, TN14].

Contraction  [EBB+15, YSZ04].

Control  [EIKS18, FM06, FSEM14, HSK14, HSH10, JAL18, KLLS10, LGS+11, MY96, SWR+13, SBB+04, SO17, SBE+15, SSS13, SPW07, TKT09, TIK15, WHR02, WRF+11, WGF08, YLL+12, ZOC+13, ZBMY14, vDvW14].

Controllable  [HTZ+11, HYZ+12].

Controllable  [HTZ+11, HYZ+12].

Controller  [BBK17].

Controlling  [LSNW16].

Conversion  [SPO+12].

Conventional  [DLW+17, FXG12].

Convergence  [GCZL14, LHH16, TRL+19].

Conversion  [BKL+15, LK18+18, LLWQ13, YR95].

Converting  [GDLH01, HA18, SN97].
Convex [BWC04, FYZ+17, GCT17, KLM04, WPZ+11]. Convey [PBE19]. Conveying [IFP97, KHSI04, HSKI07]. Convolution [FW08, FC95, LM05, SK98, Sun03].

Convolutional
[BJY+18, HKYM17, LYL19, LSL+17]. Cooperation [LWZQ17]. Cooperative
[TIK15, DMS+08]. Cooperation
[SWL+14b]. Coordinate
[ED06, REB+16, tCMR07]. Coordinated
[DCCW08, GR15, KSG+16, KERC09, LKD19]. Coordinates
[BBP08, DK10, DK11a, GXY12, HW09, JF16, LT11, LT13, LH13, LTP+05, ML19, NR18, NH06, RLS+19, RSS14, RSRDS16, WLSL17, YGX+09, ZW18]. Coordinating
[LHD18, TIC09]. Coordination
[HZL+19, MT14]. Coping
[DSP+17].

Copula [HDSC19]. Copula-based
[HDSC19]. Copyright
[ZTP05]. Core
[AGL06, HKC+12, HERF18, HBC12, KHS+18, LP02, LCDP13, SCH+09, USM97, Wal12, YSMG05, ZK14a]. Corelines
[GT19]. Cores
[GT14, UDSL18, WSTH07]. Conformal [PIN+15]. Conformal-Imaging
[PIN+15]. Conformal
[MSSD+08, TBB+07, TBB+08]. Corpora
[CSL+10, CLWW14]. Corpus
[CWDH09]. Correct
[FST+14, HN13]. Correcting
[MT05]. Correction
[An09a, An09b, HRIS15, IK15, JHW+14, LL19, SOS+17, SRCP03, WLH+12, XDN11].

Corrections
[BGM+08, HJW99a, KS00a, MOF10, PR00b]. Corrector
[BS95, SFBP09]. Correlated
[MY17, VSI11]. Correlation
[HYFC14, KH16, LZJ+18, YHR+19, ZMZM15].

Correlation-Preserving
[LZJ+18]. Correlations
[STSO6, YPI13, ZW18]. Correspondence
[AW03, ADDG12, LNHS16, XA09].

Corresponding [NMKG17]. Cosine
[Cse13]. Cosine-Weighted
[Cse13]. Cosmic
[SPN+16]. Cosmological
[FSW09, NJB07]. Cosserat
[ST09]. Cost
[BSE+17, CGJM19, DRHK07, KM10, RZP+07]. Cost-benefit
[CGJM19]. Costs
[Lam08]. Coulomb
[JR07].

Countermeasure
[BDB+16]. Counting
[BLS04]. Coupled
[HZ13, LTKF08, RSM+16]. Coupling
[BLE19, BTT09, CMK15, VHI14].

Courses
[CCL+16]. Court [WCW+16]. Cover
[Esh95, IDA+14, KM16, STM17].

Covering
[KRG+18]. CoViCAD
[TBB+07]. Cox
[MPK+13]. CPU
[SHC+09, WJA+17, WWW+19]. Crafted
[Gle13]. Crafting
[PDF14]. Crease
[STS10, TKW08]. Creased
[KMDZ10].

Creases
[KSSW90]. Create
[BDFM17, JK16]. Created
[PP12]. Creating
[GWS17, KPH05, KHA10, SVK+09, SK16, SKJ+12, TB+05]. Creation
[PMT+19, SLA+09, WSYM17, YT02].

Creative
[CLEK13, GDJ+13, KGD+19, RRJH18, WXJD17]. Creativity
[Ger17]. Creature
[LSG+11]. Credits
[An010e]. Crepuscular
[KKMS11]. Crest
[SF04].

Criteria
[FPH+08, HZM13, LFA+16, PSTW+17].

Critical
[BDH+18, FFST19, RKG+11, SRW+16]. Critique
[AJDL08]. Critique-Based
[AJDL08]. Cropping
[LWZ+18]. Cross
[CPW+15, GGC+17, KZW12, LB17, MGL07, NJJ11, SKYS14, Wea10, WPZ+11].

Cross-Cutting
[CPW+15]. Cross-Filtered
[Wea10]. Cross-Organizational
[NJJ11].

Cross-Parameterization
[MGL07, WPZ+11]. Cross-Sectional
[GGC+17, SKYS14]. Cross-Sections
[LB17]. Crossing
[BGC+11, SS08]. Crowd
[FR13, LCNG14, PvdBC+11, RE14, WOO17, nGAB16]. Crowded
[KAK+18, KCK+19a].

Crowds
[LS+19, MT01, SMTT+17].

Crowdsourced
Crowdsourcing [GJC+17, MDF+12].
Crystal [JKM06]. Crystalline [DK13].
Crystals [MJK06, SPCJL06]. CSG [HR07a]. CST [HR07a]. CT
[HLRS+08, HKG07, RHR+09, XSR+17].
Cube [CVC+12, KDA+09, MLA+18, XHL+18].
Cubemap [WWL07]. Cubes [DSS+09, LB+03, NO+03, STH+03, WFW+10].
Cubic [Cse+10, Cse+13, EV+08, KE+08, PQF+09, POD+13]. Cubical [SAC+12].
Cubist [CH+03]. CUBi [vdZT+16]. Cue [LKR+18]. Cueing [LSB+16, TCM+06].
Cues [BW+14, KOCC+14, LHC+10, LDF+14, LKM+18, PB+16, SLA+06, VBV+18, WHA+07, WSO+06].
Culling [BMA+19, CL+18, GLM+06, KSO+1, MS+19, SG+99, TCM+09, ZK+12]. Cultural
[WFS+19]. Cumulative [GW+12].
Curation [SSB+19]. Curation-Based
[SSB+19]. Current [Sa+13]. Curvature
[AT+05, BSL+19, GWB+12, GCL+14, JFP+10, MOC+11, NSE+12, ONL+12, WTI+05, YKL+08, ZG+12, ZBB+06].
Curvature-Adaptive [ZG+12]. Curve
[AHL+13, BSL+12, CSM+07, JM+10, LCM+09, LLB+17, LGS+12, MKW+14, ONL+12, OKI+1, RvW+08, WLO+8, ZWR+14]. Curve-Centric
[LCM+09]. Curve-Skeleton
[COS+07, WLO+8]. Curve-Skeletons [LS+12].
Curved [AFRS+05, AM+13, CRP+10, LLS+17, WGC+08, XRP+12, vGMSW+15].
Curves [BSH+16, DMC+15, ELH+05, HV+11, KBI+18, MKW+14, MYMI+16, MM+08, NJ+99, WTI+10, WFG+19, ZD+18].
Curvilinear
[FC+95, HHM+14, HK+99, STY+12, ZCW+19].
Curvilinear-Grid [HHM+14]. Curving
[IFP+97]. Custom [BLO+05, SLA+09].
Custom-Tailored [BLO+05]. Customer
[WWL+10]. Cut [NKH+11, LLC+15].
Cut-Surface [NKH+11]. Cutouts [LSR+13].
Cuts [DGW+11, WWB+13, XTY+11, ZZW+08].

Cutting [CPW+15, FG+99, GTLH+01, SBW+17, WZW+05, ZZZ+11].
Cyberinfrastructure [MEV+14].
Cybersecurity [Ano+14p]. Cyclist
[BGC+11]. Cyclone [LPR+19, VM+19].
Cylinder [LZH+13]. Cylindrical
[Al+11, AG+17]. Cytetguide [HP+11].

d [CM+15, GW+13, MY+14, NHYY+18, SK+16a, SW+17, AL+06, AJDL+08, AHKM+11, AR+15, AHR+11, AP+15, AJ+19, BS+18, BGC+17, BB+09, BF+01, BBA+09, BIL+11, BPM+13, BBT+10, BTH+11, BC+12, BHS+15, CWZ+14, CTG+13, CWL+12, CPW+18, Ch+L+09, CO+08, CZN+11, CKW+12, CFH+10, CCM+11, DDW+14, DIL+09, DMR+04, DB+11, DRK+07, DNP+07, DHM+13b, DMC+15, ERL+13, ET+08, FW+08, FYTL+19, FCL+09, GCL+15, GRT+17, GSC+15, GCL+18, GIS+03, GSS+19, GJR+14, GPP+16, HDBC+15, HE+06, HL+97, HLRC+12, HM+10, HL+18, IFP+97, INC+18, IFM+14, JSG+03, JK+16, JNC+15, JDL+09, JS+06, JC+14, KSG+16, KZ+17, KHS+19, KCA+16, KLG+16, KGP+13, KKK+19a, KYT+18, KKK+05, LYY+16a, LKJ+05, LSO+7a, LWS+17, LRN+96, LHO+3, LDH+09, LKL+15, LHC+16, LYL+19, LJ+04, LKR+18, LG+13, LDN+11, LJZ+12, LL+05, LY+06, LB+17, LLC+11, LSC+12, LGS+12, LFR+03, LOD+16, LSM+03].

D [MS+08, MWSJ+14, MW+99, MCM+10, MAST+16, MCG+12, MSA+17, MH+10, MJK+06, MDS+16, Mess+11, MWC+12, NWHD+16, NB+95, NQX+05, NHYY+18, OHWS+13, OA+11, dJOBN+17, OH+06, PD+R+19, PQ+MR+17, PBO+14, PLZL+17, PK+08, PLW+11, PLW+12, PJ+03, PG+08, PO+07, PH+07, PM+13, PUN+11, PMT+19, PGI+17, QCT+13, QFT+16, QY+07, QWC+09, RSB+17, RHZN+11, RKG+11, RT+12, RKZ+19, RF+11, SW+12, SZ+09, SWB+00, SBV+11, SHM+07, Sel+15, SK+14, SPP+14, SPB+96, SM+12, SW+97, SWCR+15, SWR+16, SMJ+18, SKW+11, SBW+17, SKH+19, SS+13b, TK+09, TCL+13,
WCC+18, WWW+19, WLF+19, WRF+11, WK06, WBP07, WZ08, WKZL04, WSL12, Wi11, WGS+13, WJD17, WMS98, WFS+19, WMGE12, WS09, WX+08, WXZ+16, WLS+18, XNT11, XMM+19b, YER18, YHW+07, YLX+12, YL95, YS17, YXG+10, YRWG13, ZDD+14, ZCL08, ZLD+14, ZMZM15, ZGB+17, ZWC+18, ZXM10, ZG06, ZGH11, ZMT+19, ZGM18, ZD18, dLV+06, dOL03, tCM+07, tCM08, vTR+07, vLF+17, CJR07, FHL10, HS+07, THT19, WOC+09, WBD14.  

Data-Driven  
[ARL+17, CDR+18, CXM19, HZL+19, KSL+17, KGZ+12, LCC+17, LFP07, MD12, PLS+14, SSH14, ZLD+14, ZGM18, tCM+08].  

Data-Flow  
[SW+13, ZGH11].  

Data-Parallel  
[GBWI+17].  

Databases  
[STH02, ARL+17].  

Datablock  
[RAHH16, WS+18].  

Dataset  
[MG+10, WDSC07].  

Datasets  
[ALM11, BRT12, BTC10, FSW09, GGL+14a, Har16, HE99, JBH+09, LBS14, LKS13b, MZFM98, NJB07, PLS+14, PSR17, PHF07, SZB+09, SYM14, SGM08, WFW+17, XYC+18, ZCCB13].  

Daylighting  
[SYY+11, DCB].  

DCB-Spline  
[CCLC+12].  

DCT  
[YL95].  

DCT-Based  
[YL95].  

De-Biasing  
[CH17].  

Deedeye  
[KK19].  

Dealing  
[GNCM+16].  

Debugging  
[SGB+19, WTL+09].  

Decadal  
[KB19].  

Decade  
[KBB+18, LMW+17].  

Decal  
[RASS17].  

Decal-Maps  
[RASS17].  

Decals  
[RASS17].  

Decider  
[AJ19].  

Decimation  
[CE01].  

Decision  
[BTC13, DBD18, KDX+12, KWS+14, KHZR18, MLMP18, PSTW+17, SOL+16, ZCD19].  

DecisionFlow  
[GS14].  

Decisions  
[UKW19].  

Declarative  
[HB10, JYD+19, SRHH+16, SRM19].  

Decomposition  
[BNPB13a, BNPB13b, BPB14, CML+07, GMD+16, GH95, HHG14, HPNT18, KL96, LBD13, LGQ09, PPL+10, RNL09, Rob98, RF11, SS08, YBW+19, ZGM+18, ZCFL15].  

Decompositions  
[BRP19, CMLZ08, ER97, SZ12, Szy13].  

Decompressive  
[KXW+18].  

Deconstraining  
[YN03].  

Decorating  
[ZDW+05].  

Decoration  
[BKRE19].  

Decoupling  
[BB09].  

Dedicated  
[GUO00].  

Deep  
[BTJ+13, CCJ+19, GL17, KAKC18, KTC+19, LSL+17, LSC+18, PHF+18, WGM+19, WGS+19, WSW+18].  

Deep-Learning-Assisted  
[CCJ+19].  

Deeper  
[HDR+13, YKS+07].  

DeepEye  
[GZ+18].  

DeepTree  
[BBH+12].  

DeepVID  
[WGM+19].  

Defect  
[SPCJL06].  

Defects  
[MJK06, RGK+13].  

Deferred  
[TCM01].  

Deficiency  
[MOF09, MOF10].  

defined  
[JJ09].  

Defines  
[AG17].  

Definition  
[WR11].  

Deformable  
[ADDG12, BW04, CGD97, DGW11, DTT+17, DK+06, EGS03, FST+14, HRAB14, KL14a, LSH07, LKT13, NI+17, SO17, SSF13, TL07, TCYM09, WPG05, WB05, YGV+13, ZK07, ZW+12].  

Deformation  
[AL11, BS08, BDD+16, CK05b, CCM+11, CSC07, DCKY+12, GD01, HHI+14, HTZ+11, HYZ+12, KSN+17, LZD13, LG13, LL14, LXY+18, MVB+17, SVAC12, SM06, TCO9a, TSW14, TEC+16, WCB+12, YHMY08, YXG+13, ZDL+15].  

Deformations  
[CDA+99, FvdPT97, HSK16, HHZ17, KJ12, SSH14].  

Deformed  
[KBB+07].  

Deforming  
[GWBO12, MBT07, NI+17, WLT18a, ZK12].  

Degenerate  
[DL14].  

Degradations  
[KLYE13].  

Degree  
[AHS+14, JWC05, LHF+18, ORC07, vHP09].  

Degree-of-Freedom  
[JWC05, ORC07].  

Degree-of-Interest  
[AHS+14, vHP09].  

Degrees  
[CMLZ+11, HA06a, OHH06].  

Degrees-of-Freedom  
[CMLZ+11].  

Degrees-Viewable  
[OHH06].  

Delivery  
[CM+13, MS08, QCT13].  

Delay  
[DL12].  

Demand
Discontinuous [SCKR08]. Discourse
[ASW12, LSB+16, ZCCB12]. Discovering
[CYW+16, TWC+18]. Discovery [BVV+19,
DCCW08, Eic00, IDA+14, PL$^+$14, SS06b].
Discrete [AT05, AHK+17, AJ97, CS08,
ED+919, HKKS18, IHR01, JKLG08,
KCOY03, LS13b, LTL04, LCS06, PLK$^+$06,
RS12, SvdBLM11, SN97, VCP08, Zag96].
Discretization [EJR+12, SvdBLM11, SN97,
VCP08, Zag96].
Disocclusion [DZMQ16].
Disparity [LLLF08, YXSH13].
Disney [NOB16].
Disentanglement [NOB16]. Disk
[LLLFO8, YXSH13].
Disocclusion [DZMQ16]. Disparity
[WZC+15]. Displacement [AYRW09].
Displacements [KMDZ10, WCB+12].
Display [BS02, BC18b, CK16, CM16,
CDK$^+$17, DK11b, DTT$^+$17, ETO$^+$10,
GM19, Gor02, GPK14, HII$^+$18, IFP$^+$12,
JH13, JRHT14, KKK18, KBB11, KFL$^+$15,
KML96, LSJ$^+$15, LDH09, LDN11, LH10,
MY13, MBZ12, MTO$^+$15, NHH07,
dJOBN17, ORC07, OHH06, PKS$^+$08,
PGRS13, RWBF18, RLM10, Sim07, SvLF10,
SZH97, SBHW11, TKTN09, TIS16, VB18,
WZW$^+$05, WB08, WSH06, YNYH06,
YHH$^+$07, YHLJ08, ZHF+19]. Displaying
[JS98]. Displays [ACR$^+$19, AHKMF11,
AT16, BSE$^+$17, BI12, BS06, BJ07,
BSEN18, BC18a, BM05, CAN14, DVC07,
DFG$^+$14, DJK$^+$06, GMS18, HN13,
HRIS15, IK15, IDAK15, IAIK16, IHS17,
JH13, JWS04, KBBG13, KBB$^+$12, Kra16,
LCR16, LK19, LHS$^+$18, MS04,
MTO5, MMCE09, OTKS15, PIR$^+$15, PBC17,
PFG$^+$17, QPK18, RHZ11, RM17,
SLGM09, SBK$^+$11, SFC$^+$07, TKAM06,
V16, XLZ$^+$19, YW19, ZFS19].

Dissemination [BK16]. Dissertation
[Meh17]. Dissimilar [HGW18, ZCJH12].
Dissimilarity [BDD$^+$16]. Dissipation
[KLLR07]. Distance [BA05, BK01,
CZN$^+$11, DBW11, GMS19, Gué01, GDN$^+$07,
HLD$^+$08, JBS06, KBB$^+$12, KHSS14, KL14a,
KW11, KDBB17, KMM11, LPK12,
LMZ$^+$14, NDS10, SFH06, SK00, XYM$^+$15].
Distance-weighted [HLD$^+$08]. Distances
[LKD19, XWL$^+$15]. Distant [WHK15].
Distillation [WZ$^+$19]. Distorted [SM09].
Distortion
[BGR06, NWHD16, WL08, YSYS06].
Distortions [NSZ+17]. Distractors
[PFW09]. Distributed
[BS06, BSO$^+$12, CMCL06, DLL08,
CCQ$^+$14, DL12, LSJ$^+$15, LKS$^+$19, LNS08,
MB03, NSS03, OWS15, PST$^+$15, PMD$^+$07,
RLM10, SSM13, SKS12, TIK15, Vis15,
Wat14, WAG$^+$12, Wil18, XZH14].
Distributing
[LLLFO8]. Distribution
[DS16b, DCH$^+$17, GQGP17, HDS19,
HLC18, IWR$^+$18, JH09, KBB13, OHJ$^+$11,
SFI09, XZM17]. Distribution-Driven
[JH09]. Distributions [AWHS16, BWW$^+$12,
LLL$^+$10, NSW17, WAG06].

Divergence
[BK17]. Divergence-Free [BK17]. Diverse
[ASvDP14, FHH19, MSSH14]. Diversity
[PHJ$^+$10]. Divide [LYY$^+$16, ZHLB13].
Divide-and-Conquer [ZHLB13]. Divided
[SHH11]. Dividing [BV18]. DNA
[LBL19, MDS$^+$18]. Do [BJY$^+$18, FDC$^+$18,
GLB16, HGW18, RKC$^+$16, SGQ16,
SCB$^+$19, GMD$^+$17, LKH$^+$16, JAAL18].

Disscruate [SSBC19]. Document
[BLE19, BMS17, BSM14, CW090, GLK$^+$13,
HHWN02, HKBE12, JSR$^+$19, KKP$^+$17,
MDL07, PM08, PNM08,
SOR$^+$09, cKJG$^+$12]. Documentation
[HF11]. Documents [BLE19, GBW17,
KZD$^+$10, KJW$^+$14, SOR$^+$09]. Does
[KDX$^+$12, YAE07, ZKM18]. DOF
[GL17, TIK15, YEE12, BDF16]. DoG
[Mur95]. DOI [JA18]. Domain
[BRSP18, CCQ$^+$14, CJTM05, DLW$^+$17,
DNP07, DL03, GHL18, aKS12, KCS$^+$16,
LS02, Mar18, RBGH14, YLSL11, Zhn05].

Domain-Specific
[OSSK12]. Echoes [AGN+19]. Ecosystem [McK09]. Ecosystems [BCH+13]. Eddy [WPS+16]. Edge [BRH+17, BYA15, BJB+12, BSL+14, BVB+11, CZQ+08, DSC+08, DSS+09, DRMM13, EHP+11, Hol06, HM10, LLCM12, OKSK16, SHH11, SMNR16, TCM06, YSZ04].


Editable [GXH+13]. Editing [ATLF06, BKW08, CML+07, HLCB18, LZH+07, LHFY12, LZW+13, LSS+15, WM13a, WP16a, WCB+18, WQ07, XLND11, ZZL+15].

Editor [De 15a, BLS+12, BTW+13, CDF14, DBD17, DBBF19, ES07, GLB16, HKKS18, JSB13, MS18a, MWCR06, MDF12, MTW+12, PDBG18, UH19, ZKM18].

Effective [BSB+18, CGH+19, CVG13, CG08, DSSK08, EMRY02, HHB16, JQD+08, LFH06, PKG12, PRA+10, SOK+16a, SOK+16b, SRS17, TRB17, VHL16, XHT+07, YCZ+16, YEII16, CJR07].

Effectively [RKA+13]. Effectiveness [BS16, BW12, NAK+18, RBK+15, RFF+08, SBW17, TTR10, BPC+10]. Effects [AW14, BDM+17, BM10, BC18b, CK16, CCAL12, CCB11, CCS12, CCB11, CCM12, CG09, FAW10, FHG+09, GGTH07, GGTH07, GJ10, GH00, GSG96, GJR+14, GNPH07, HAAB+18, HAGS16, JR07, KSDA16, KYK11, KSP+17, KTH+18, KS10, KKM+09, KKCS98, LK11, LVRH07, LS+15, LHL16, LW13, MTS+18, SBS16].

Efficiency [Vas16]. Efficient [APW16, BES12, BSN18, BN12, CMLZ08, CCB11, CCS12, EG09, FAW10, FHG+09, GGTH07, GGTH07, GH00, GSG96, GJR+14, GNPH07, HAAB+18, HAGS16, JR07, KSDA16, KYK11, KSP+17, KTH+18, KS10, KKM+09, KKCS98, LK11, LVRH07, LS+15, LHL16, LW13, MTS+18, SBS16].
MTRP10, OBS$^+$15, PD04, PQF$^+$09, PRA$^+$10, RNL09, RN19, RKKWH12, SP07, SNM16, SRK$^+$11, SwW98, SR17, SSB$^+$17, SF19, TMM15, TDR10, TNS10, USM96, VP15, WWYS04, WCZ$^+$11, WM13b, WX13, WSYM17, WWZ$^+$19, WD10, WSC$^+$95, WP18, XTY$^+$11, XNT11, YEII12, YEII16, ZT99, ZCW19, ZD18, vKKE17, DMA19].

**Efficiently** [AMA11, NSS14, XHF12].

**Effort** [CFEC17].

**Ego-centric** [BDF16, JNC$^+$15, MDB18, SWW$^+$15, SJK$^+$07, WPZ$^+$16].

**EgoSlider** [WPZ$^+$16].

**Egocentric** [HSC08].

**Eigenfunction** [EGPGV].

**Element-Based** [NLKH12, NKH14, WBH04, YEB16].

**Elemental** [FWL17, STH13, SJL$^+$12].

**Elemental** [HTE11].

**Elemental** [JDSR$^+$18].

**Elements** [AERA14, DWA10, KA12, NKK06, SBM$^+$06, ZQS11].

**Elevation** [ZSTR07].

**Eliciting** [HHH16].

**Eliciting** [CB15].

**Eliciting** [HHH16].

**Eliciting** [C4OKRV9].

**Elimination** [SFC$^+$07].

**Ellipsoidal** [SLG$^+$17].

**Ellipsoids** [CCW$^+$09].

**ElVis** [NLKH12].

**Embeddable** [DFR10].

**Embedded** [SSEW19, TBN11, WHA07, WJD17, YGDM17].

**Embedder** [BD13].

**Embedders** [KW05].

**Embedding** [BBIA09, JSR$^+$19, KHZR18, LPCC17, PKL$^+$18, RT12, SLQW17].

**Embeddings** [BMS17, LBT$^+$18].

**Embarrassments** [BARM$^+$12].

**Embodied** [GPK14, LKS$^+$19].

**Embodiment** [BPS13, BDH$^+$18, SFL$^+$16].

**EMDialog** [HSC08].

**Emissive** [MMCE09].

**Emotion** [SPW07, VBC$^+$16, WBA$^+$14].

**Emotion-Based** [SPW07].

**Emotional** [WGR$^+$18].

**Empathy** [Ger17].

**Empirical** [BJJ14, BARM$^+$12, DBB10, FFH18, JHKH13, LBI$^+$12, LKD19, MRO$^+$12, MGMP18, PGK16, SMT13, TGH12].

**Empirically** [Rot13].

**Empirically-Derived** [Rot13].

**Employing** [GS08, WCC$^+$19].

**Empty** [HAAB$^+$18].

**Emulsion** [OIR$^+$17].

**Enabling** [ED06, JKRY12].

**Encapsulation** [JCM01].

**Encode** [SMO$^+$13].

**Encoding** [ACS$^+$18, BDD$^+$16, FDPH17, GSCI15, KJL$^+$12, MPK$^+$13, WKB$^+$13, ZBG$^+$17].

**Encodings** [CG14, GBFM16, SSRE18].

**Encouraging** [FDPH17].

**Endoscopy** [HHC01, KKPS08, WGC$^+$08].

**Energy** [BNTM16, CHK04, GDI$^+$13, HKG07, RB07, RB11, SSF13, WHK15].

**Energy-Driven** [WHK15].

**Enforcement** [MMT$^+$14].

**Engaging** [LKS13a].

**Engine** [CDL$^+$16, DKMI13, DCH$^+$17].

**Engineering** [GS08, JKJTM06, MGS$^+$14, SZK15, ZAG$^+$].

**Engines** [DDGL07, SWL$^+$14a].

**Enhance** [FWL17, STH13, SJL$^+$18, ZK17].

**Enhanced** [BLE19, ETO$^+$10, LPP$^+$06, LG15, NDS10, REB$^+$16, SAS16, SEA09, TC13, YES95].

**Enhancement** [JPL$^+$16, KV06, MD10, VKG05, VJN$^+$15, WK13, ZGW$^+$14, ZNZX16, ZWM13].

**Enhancements** [KWL14].

**Enhancing** [BG07, CCKS19, GKY$^+$16, KW14, KOC14, KSTE06, KSS09, LJZ12, MJL$^+$13, TCM06].

**Enriching** [LXH17].

**Enrichment** [KTE15].

**Ensemble** [BGOJ17, Czc$^+$15, DDW14, HZ13, KTB$^+$18, KRRW19, LBS$^+$19, SZD$^+$10, WLSL17, WRF$^+$11, XXM$^+$19].

**Ensemble-based** [XXM$^+$19].

**EnsembleLens** [XXM$^+$19].

**Ensembles** [BLLS17, CLEK13, FFST19, FBW16, FKRW17, GBP$^+$13, HHB16, HSSK16, HMZ$^+$14, HOG13, KBL19, KSDD14, LBR$^+$17, LPCRH19, ME19, MGS$^+$14].
MWK14, OBJ16, WMK13. Ensuring [HHCL01]. Enterprise [KPHH12, PGU+13].

Entertainment [NQX+05]. Entity [BCB10, FWL17, KGS+08]. Entity-Based [BCB10]. Entity-Component [FWL17].

Entourage [LPK+13]. Entropy [RMCW19]. Entry [XLZ+19, YFZ+18].

Environment [AB01, CPW+18, CDBR14, EGH+06, FYWY16, HWHK16, HWL+11, JPD+18, KCH11, KLL12, LH11, LGS+11, LIM+12, LODI16, RCW+18, RJG17, RSD+13, VSS08, WMWL11, WKCB07, YAE07, ZLB+05, ZWBH13].

Environmental [MBH+12, NTS11, SKU+12].

Environments [ANR+18, AGN+19, AM13, BZS+13, BK12, BL15, BIPS12, BRNB19, CWL12, CLL08, CGJM19, CPK+05, CR06, CV+12, D12, DK11b, DDBR+19, DDKA06, ESV98, FWK16, FS14, GPL+13, HSK14, HLRC+12, IDW+13, JAA18, JSB13, JHBK19, JWL05, KHSS14, KLL+13, KCT+17, KAK+18, KCK+19a, LWG05, LKC09b, LFH06, MWCR06, MRG+15, NBM19, NDR96, NSS03, OBKP+18, PFW09, PWHK16, PKB+12, PGRS13, QWC+09, RZP+07, RSR+18, SM12, SQG16, SLO8, SMP17, SAC+08, SFR+10, SLF+12, Tao02, UK12, Wah14, WZQK04, WKW06, YDJ+19, ZDM13, ZKM18]. Episodes [KBK11].

Equal [BHB04]. Equalization [SRML09].

Equalizer [EMP09]. Equation [AG17, DRW16]. Equations [WDC08].

Equipment [SFL+16]. Erez [Ano13u].

Ergonomics [ZLDM16].

Ergonomics-Inspired [ZLDM16]. Errata [GXW+18a, NN11a, SOK+16, TdJJ15, WC10]. Erratum [Ano14a, Gov18, GTS11].

Error [CCK07, CG14, EJR+14, FCZ15, FSME14, HYB+17, HQC+19, MY96, MGM19, PA06, RMW09, Sbe97, THJ99].


Estimators [BLM96]. Eternal [Bai13].

Euclidean [DRP00, KV05]. Euler [CAP18, RD10, RZP12, RSFH14, SAD16, SZHR11, STH11, Wil12].

Eulerian [CM14, CMK15, JEH02, SWTH07, XSM17].

Eurographics [BvdP12, BDC17, KS14a, KL14b, MFS+09, SK15, AD12, CW11, Ota17, PIZ12].

EuroVis [MYM08]. EVA [LMG+18].

Evaluate [DBP14, TTR10]. Evaluating [BW11, BBG+18, BJK+16, BPC+10, BBIF12, DDB18, G015, GQM+18, HTP19, HSR18, IIC+13, KO12, KLD+09, KPR+14, LBS13, MHD+18, MBZB12, MTW+12, NAK18, OJEF19, PFM01, PBC17, Ros11, SRE18, SN05, SBW17, Vas16, WZ08, ZLC+12, cKJG+12, SS19].

Evaluation [AJDL08, ALBR16, AS05, BWS+19, BGP+11, BYB+13, BPS13, BTB10, BLIC19, BE09, Bru17, G06, BKH+11, BTJ+13, CCK07, COMP13, Cse08, Cse10, DRW16, DRK07, EMDSP+15, FSTG16, FTS13, GLH+14, GHL15, HKBR+14, HMSA08, HHH+12, HQC+19, JRT14, JF16, KGS+08, aKGS11, KKK18, KOC14, KCH11, KLL12, KDA+09, LLPP19, LT99, LD11a, LDA12, LFA+16, MLMF12, MKY13, MK13b, MMY97, MIO+15, NDM+97, NHB+17, NTS11, OBKP18, PW09, PFW12, PWHK16, PFG08, PBU16, RMW09, SSB14, SD12, SFR+10, WAM+19, WR11, WKSS05, WCA+17, XCA19, YDGM17, ZHF+19, tCMR07].

Evenly [LMG06, WLZ10]. Evenly-Spaced
Event [CvW18, CXR18, DFD^+14, DSP^+17, GS14, GXZ^+18, GJG^+19, KBK11, KFN06, LLMB19, LSB^+16, MLL^+13, PLC^+11b, VJC09, WG12, YLL^+12, ZCD19].

Event-Based [KFN06, VJC09].

Event-Guided [DFD^+14]. EventRiver [LYK^+12].

Events [BSR^+14, CDW^+16, DGWC10, LGM^+18, LWLM18, WCS^+18].

EventThread [GXZ^+18]. Eversion [FS04].

Everyday [PSM07]. Evidence [BE09].

Evolution [wAPS14, BSH^+16, BGM^+17, DMR04, KRRW19, KZW^+16, LWW^+13, LWL14, SBV^+11, Sun03, WPZ^+16].

Evolutionary [GdBG12]. Evolve [CLWW14]. Evolving [CLT^+11, KW19, LSB^+16, WLWL10].

EvoRiver [SWL^+14b]. EWA [ZPvBG02].

Exact [KL14a, KTCG17, Will2, XLDN11, XHF12, XWL^+15]. Examination [HHCL01, KLL12]. Examining [FWK16, aKS12, YQK^+17]. Example [ADP02, BGCS17, CZZ17b, DV95, FXG12, LC10, TTR10, WWYS04, ZBO13].

Example-Based [CZZ17b, FXG12, LC10, WWYS04]. Examples [HYZ^+12, S211, XYS^+16].

Exceptions [QH18]. Exchange [LBLE^+14, YSZ^+19]. Excluded [LBH14].

EXCOL [ZHF12]. Execution [Easd19, IJB^+14]. Executive [Ano14v, Ano16x]. Exemplar [CWDH09, LKL^+15]. Exemplar-based [CWDH09]. Exemplars [DHM13b].

Exhibit [RGFL14, BHP^+12]. Existing [CPC09, MPG^+14]. Exocentric [EIKS18].

Expand [vHP09]. Expanding [LIRC12, Mal05, WWC^+14].

Expansion [Hau97, KLM04, MMMV97]. Expectations [KRH18]. Experience [LKS^+19, TUG17].

Experiences [HHH16, LLKN17, LLL^+19a, LSV^+18, PKG12, RKA^+13, WBA^+14].

Experiment [SNB^+17, SFL^+16].

Experimental [BMGK08, BHZ^+18, BE09, BPS^+11, FIBK17, KHSI04].

Experimentation [KTC^+19].

Experiments [MRSS^+12, PGK16, TSA14, vFWTS08].

Expert [Gle13]. Experts [AIDL08, GHL18, aKS12, TvET14]. explain [FGS19].

Explainers [Gle13]. Explaining [GRS^+19, FSM12]. Explanation [BWR00].

Explanatory [RRJH18, WBE^+06].

Explicit [FSHH12, LCS^+12, ZCCB13].

Exploded [BG06, KMA10]. Exploiting [DMAM19, GH95, VB13, WWL07].

Exploration [AZL^+19, AMA08, SBB^+18, BTC13, BBH^+17, BMS17, BIAI17, BWW^+17, BMWW18, BPB08, BBG^+09, BVV^+19, BWT^+11, BGK06, BM10, BLG^+16, CDDS18, CQK^+08, CWT^+08, CDZ^+09, CMM^+14, CZC^+15, CGH^+19, CSC07, CM08, DC17, DVH^+19, DNN13, DFD^+14, DCCW08, DMS^+08, EDF08, ERHRF10, EDF11, EBB^+15, FDPH17, FP19, FPV^+13, FMST96, GCL^+15, GNB11, GPBW10, GLK^+13, GS06, GW11, HSS11, HLRS^+08, HBJP12, HLR^+12, IVJ12, JBMS09, JKM01, JKM07, JSR^+19, JFY16, KAKC18, KLM^+08, KPP^+17, KBH06, KG06, LHD18, LLMB19, LPP^+06, LS09, LMG^+14, LBK^+18, LFHO6, LGG^+18, LKS13b, LS16, LWD^+17, LBT^+18, LOD16, DSC^+16, LBS^+19, MJW^+13, MV06, MI13, MLKS18, MTRP10, NM13, PBN^+13, PSSC17, PSTW^+17, PLS^+14, PM08, PS06, PHE^+18, PTMB09, PFK^+08, POM^+09, RKG^+13, RT12, SHM10, SKBE17, SM17, SZY^+18, SPN^+16, SKU^+12, SYS^+06, SS18].

Exploration [SPG14, TJW^+17, TAE^+11, TEC^+16, TWSM^+11, UDSL18, VMCJ10, VJC09, WLJ^+12, WCZ^+11, WLY^+14, WFW^+17, WWZ^+19, WWYP19, WAG06, WMGE12, WDDC07, WS09, WZZ^+16, XXM^+19b, YEB16, YEB18, YHW^+07, YSI^+10, YDC^+14, YRGG13, ZMH^+09, ZK06, ZCCB13, ZSAC18, ZLM16, dOL03, vHP09, vPBB^+10, vEvW14, vEHBV16, SKL^+14].
Explorations [Gle13]. Exploratory [BE18, BWK+13, DPW+15, DB07, FPB17, GBW17, LH14, LLZ+16, LTP+05, MLMF12, SKB+18, STM17, TWSS16, VMN+19, WMA+16, XYC+18, ZGC+17, ZCPB11].

Explore [CSWP18, HF06, HFM16, LPK+16].

Explorer [PGK16, BGM+17, GFG+14, NJBJ09].

Exploring [AAH+13, BDF+10, BDSW13, CvW18, CHW+18, CG14, DYW+13, EIKS18, FSW09, FH07, GWP+18, GWF14, GK07, HF11, JDL09, JDL12, KBL19, KC14, LPCC17, LS+16, LYK+12, MB19, MAAB+18, PGSF16, PBC17, RGFL14, RB11, Sel15, SAM+05, SDW11, SSGM19, STS+14, TIW+19, WM18, Wen14, WG12, WCS+18, YLZ+13, ZWJZ12, vGMSW15, GMD+17].

Exponent [BGT12]. Exponential [CAP18].

Exponent [GT17, GHP+16]. Exposing [WGS+13]. Exposition [WKD19].

Exposure [SBE+15]. Expression [CWZ+14, DNL+06, EG09, KLK+09, ZPS04, ZLG+06]. Expressions [BZS+13, Ros11, WHM14]. Expressive [BLB+17, DNL+06, KSL+17, KKSE17, RHY14, YEB18]. Extended [CMFL16, GPL+13, GQGP17, IMS15, KWP01, PLW11, PGI+17, RWBF18, SSS13, VGS12, vdEHBvW14]. Extending [FDR10]. Extensible [MWN+19, WSD+13]. Extension [DCK+12, TLH10, TUG17]. Extensions [BBP08, EM06]. External [CMRS03].


EXtract [ZHF12].

EXtract-and-COMplete [ZHF12]. extracted [BWW+17]. Extracting [AAH+13, GGL+14a, GPP+16, JCW14, PMH18, YFM01, YSZ+19]. Extraction [Ane96b, AE13, AJ19, BDSS18, CML+07, CMM+97, DS16b, ESN+09, ENS+12, GSDJ04, GH95, GKL+16, HK07, KHL99, KGP+13, LTPH17, LLC15, LBH11, LLRR08, LXR19, LSJ96, MS08, NN11a, NN11b, NKKH11, OMD+12, RL08, RKZZ19, SP07, SSS06, STS10, SJ06, SWF+16, SH00b, VAB12, WL08, WC09, WC10, WM13b, WPB+11, vWPSP96]. Extrafoveal [TUG17]. Extrema [IK95]. Extreme [BMA+19]. Extreme-Scale [BMA+19].


Eye-Tracking [OIR+17]. Eye-Tracking [AJ17, JA18, KW13, MVN+19]. Eyeglasses [CDAF18]. Eyes [KRH18].


Factors [CPW+18, KE08, LJJZ12, OJEF19, PZ07, PQF+09, SLS+17]. Face-Centered [KE08, PQF+09]. Face [ZCFL15].

FaceForge [SLS+17]. Faces [FBLS05].

FacetAtlas [CSL+10]. Faceted [DRRD12, WMA+16, ZCCB13]. FacetMap [SCM+06]. FaceWarehouse [CWZ+14].

Facial [ADDG12, BZS+13, CWZ+14, DNL+06, LZD13, WHM14, ZPS04, ZLG+06]. Facilitate [BHP+12, SDES19, SPB08].

Facilitating [LDFZ14, SS18, ZCCB13]. Fact [BM19, AABW12, BPS13, DCL+12, TLH10, TUG17].

Factors [CLRP13, EGG+12, Lae96, ZPP05]. Factors [DBP14, TM04, WG12, ZOC+13].

Facts [SDES19]. Faithful [Hu16a]. Familiarity [LPCC17]. Familiarity [DLW+17].

Families [KMG+06, MGKH09]. Family
[FDC+18]. Farewell
[De 19a, Ebs07, Ert11a, Hag03, Lin15].

Farms [SOL+13]. Fast
[BYA15, CF10, CK10, Cse13, DRM04, DL03, Dru08, ERL+13, Fan99, GJ10, GSM+14, GLM06, GJR+14, Har16, HKH+12, HK99, IYK01, IYK04, IMS15, JvdLR13, KSDA16, KNP04, KGS98, KL07, KTCG17, LH03, LYS+10, LRZM11, LHY19, LI06, LSC08, MRT00, NB95, OBLN17, PB13, PNML08, RLH11, RKKZ19, SM04, SE18, SPP+14, SK00, SZH97, Ste98, SRML07, TCM+12, VML97, Vis15, Wal12, WLM19, Wu16, WHL16, XLN11, YYY16, Zag96, XWL+15].

Fast-Forward [HKH+12].

Fast-Turnaround [NB95]. Faster [AMA11, BHB04, GU00, HH10, HL09, WFM+05].

Fault [WCB+12]. Fauxvea [GJC+17].

Favre [MFS+09]. Feasibility [SB14].

Feature
[ALMF19, AFRS05, BKRE19, BKL+11, CCM+13h, CRT04, CMN13, CSC06, CJTM05, DANS10, FY10, GKK+12, HLR+08, HYB+17, JSR+19, KHL99, KBP14, LZH+07, LCS96, LH09, LZW+16, LDC16, LWC+18, MEC18, MWCE09, MK13a, MD10, MOG11, PYW+16, PSR17, RKWH12, RGC+14, SIM14, SM17, S06b, SRM17, VKG05, Wan06, WWM11, WSW16, WTPV11, WMK13, WMGE12, ZAM11, vWPS96, CJR07, LSC08].

Feature-Based [BKRE19, BKL+11, ME18, MK13a, RGC+14]. Feature-Driven [WMGE12]. Feature-Insensitive [AFRS05, Wan06].

Feature-Preserving [FY10, LDC16, LWC+18, SRM17, WWM11]. Features [AMA07, CC08, DW14, DS16b, EBA11, GKY5, GDB17, KY06, LT11, LLLF08, MPWG12, QM16, SW97, WLL+05, WSPVJ11, WFS+16, YHR+19, YON06, LSC08].

Feed [PSM06, WXP14]. Feedback [WXP14].

AGN+19, BKA+11, HOG+12, KFN06, LBHW18, RB11, WWL+10]. Feel [JAAL18]. Feels [GLM+17]. Feiner [Ano14d]. Felix [SPN+16]. FEM [JDSR+18]. Ferns [GSCI15].

Fetus [MMK+17]. FI3D
[YS1+10]. Fiber [BBW+17, BVPH09, EBB+15, JDL09, KTCG17, RBN+19, TC17, WKI+17, WY19a, ZCL08].

Fiber-Clustering [ZCL08]. Fiber-Level [WY19a].

FiberClay [HRD+19]. Fibers [CDZ+09, SSC+16, S80].

Fibrous [MMYK06]. Fidelity
[BBG+18, BZG14, CS18, CPK+05, HWA15, LBS14, MWCR06, MBZ12, RYL+18, RPH08, SHC+09, VBC+16, YRP19].

Fiducials [HR11]. Field [Ano05c, Ano14h, BES12, BWO8a, BBG+18, BJA+19, BSEN18, CML+07, DANS10, DGBW09, DPR00, DTT+17, FBW16, FCL09, FSE12, GPR+01, IK15, IA16, IMS15, JDSR+18, JHW+14, KDBB17, LJX+10, LKJ+05, LK09a, LH16, LHH16, LBZ+11, LL04, LP15, MK13b, PW95, PLC+11a, PBL10, PGL+12, QPNK18, RKS13, RBK+15, RBN+19, RWBF18, RLH11, RLL+13, RBDG15, RT12, RKZZ19, SMR98, SZH97, TN11, USE13, WLL+05, WS07, WLD17, WASQ18, WZ+04, WT10a, YHL08, YCLJ12, YLK12, YNBH11, YXY+15, Zag96, ZHT07, ZFS19, LLRR08, WSW16]. Field-Guided [LBZ+11]. Field-of-View [BSEN18]. Fields [AZC+12, BHH19, BGT12, BZG14, BSH15, CML08, CKW+12, CLB11, DHL09, ES05, FA15, GPR+01, GKT+08, GSS+19, GYO2, GJR+14, GYK+16, GDN+07, HMTR19, HA04, HE06, HLL97, HVSW11, HRN+03, JBS06, KL14a, KH00, KKK19, LPKK12, LJL04, LRVL06, LSC06, LTWH08, LJHY14, LFR03, MBS+04, MCHM10, NKK11, NKK14, NJ99, NLS11, NDS10, PQMCR17, PZ11, PYW+16, PvdBC+11, PMW13, RKG+11, RKWH12, SCT+10, SHM+07, SWC+08, SK08, SLB04, SWCR15, SRW+16, SCK18, SB17, SH00b, SJ15, SS13b, TWC+18, THS05,
TN13, TN14, TP12, TKW08, WC09, WC10, WTVP11, Wen14, WJE01, WPG05, WGS07b, WPL96, YQK+17, ZWZ+13, ZSL+16, ZBG+17, ZPP05, vLdl03.

Fighting [VF13]. Figure [KCC+17].

Figure-Ground [KCC+17]. Figures [LYY+16a]. Filament [LSY+18, MK09]. Filament-Mesh [LSY+18]. Files [SPN+16, ZW07]. Files [BSO+12].

Filesystem [BYB+13]. Filling [BB12, MSSH14, MM08, Wen14, WFM+12, DSF+14, WFG+19]. Film [YNHY06]. Films [LHC16, VAW+17]. Filter [BC12, CC08].

Filtered [ASDW14, LKC09a, SP07, Wea10]. Filtering [BRSP18, BTH+13, DMR04, JWD+14, LWC+18, NHPN14, RML12, SJ06, SBE+15, TLQ+08, WC09, WC10, WYP+15, WDC08, ZDH+19, ZFAT11]. Filters [LS02, MMY97, SCKR08]. Findings [AG16a, BOZ+14, KHW+09, TWSM+11].

Findings [JHKL13, KDX+12, LKD19]. Fine [DWBR06, UBB19]. Fine-grained [DWBR06]. Finger [JNC+15]. Fingers [LBS+19, TMD05]. Fine [AWB11, BGT12, BTB+04, BSL+12, FSHH12, GT17, GT19, GHP+16, MNKW07, NKK11, NLKH12, NKH14, SBM+06, WBH04, XHF12]. Finite-sized [GT19].

Finite-Time [BGT12, GT17, GHP+16]. Firefly [SEB19]. Fire [BYA15, LBS+19, MAW11, NO97, TMM+13]. First-Person [TMM+13]. Fish [ZHF+19]. Fishes [BDDS18]. Fish-eye [BGR06, CLB+16, GKN05, WWZ+19, WLH+12, XZC+19].


Fixed-Rate [Lin14f]. Flame [SZN+18, YL18]. Flames [BWP+10]. Flat [NWHWD16]. Flat-Shadowed [NWHWD16]. Flattening [GSZ+13, PMCS11, SFH06, SF04, ZKK02].

FLDA [HLG+14]. Flexibility [BPG12].

Flexible [BG07, CvW11, CCS12, HDSC19, KLKS10, KS02, PS06, PHF07, SLB06, SRM19]. Flexibly [HOG+12]. Flicker [WLBP+14].

Flight [AAGS19, KWDG11]. Flip [GCT17]. Floating [FM12a, Gor02, LI06, Lin14f]. Floating-Point [FM12a, LI06, Lin14f].

Flood [KWS+14]. Flooding [RWF+13]. Floorplan [SWF+16]. Flow [AHK+17, AH11, An04h, BS95, BT13, BB07, BMLC19, BJB+12, BPB14, BPM+13, BMST97, BPS+11, BS11, BHSH15, CFM+13, COJ15, CDR+18, DMC+12, ES01, FC95, FPH+08, GGTH07, GNPB11, GST16, Guo09, GZL+14, GZ14, HMTR19, Har16, HEWK03, HLNW11, HLG+14, HZ13, HPC+13, JKL08, JE02, JCG08, JM10, KLC09, KSG+16, KBE+18, KHS+18, KJW+18, KN96, KGP+13, KG09, KGG+12, LwVWH04, LGV+16, LM05, LCS+12, MEB+14, NTT+19, OJ12, OJCP16, PW95, PH07, PW13, RKH12, RLL+13, RYL+18, RC06, SPS06, SSMG13, SYM14, SBV+11, SWR+13, SHM+07, SWC+08, SPO+12, SK98, STM08, TMWS13, TWSK14, TWSS16, TWC+18, VPO+16, WRT+04, WTO11, WYW12, ZT09, ZPP05, vLdL03].
TZL+12, WLL+16. Full-Body [AdLH13].
Fully [CPW+18]. Function [BMWM06, Gor02, IWR+18, KMG+06, LWS+17, ME18, MWCE09, MJW+13, SKK06, SG09, Sel15, SP96, WZK12, WQ07, WZWD15, ZT09].

Functional
[BKDE00, BSL+14, DWBR06, FCSF17, HPNT18, JVO9, JEG12, LLL+19a, LSZ+18, MF11, VAW+17, WSSL12, tCMR08].

Functions
[BEHP04, CR08, CM08, CM11, EMRY02, EDW+19, FGF+05, GBP10, GQGP17, GNP+06, GNP07, JWD+14, KM06, KKH02, LF97, LHLW10, LLL+12, LLL+10, LHZ+04, LLY06, NHPN14, RE01a, SCT06, SSC+16, XJF+08, YCLJ12, ZDW+05, vAPP+11]. Fundamental
[XYG13]. Funding [MEV+14]. Furniture
[KHL17, ZGM18]. Furry
[QCH+14].

Further
[AMA06]. Fused
[LDH09, PPvA+11]. Fusing
[CM16, WLDW11, YYFX18]. Fusion
[BBB+12, LKR+18, WHR02, ZNZX16].

Future
[JF16, KJH+18, Min13, NJ16, Sat13, WFS+19]. Futzing
[AZL+19]. Fuzzy
[FM12b, SJJ+18a, SB04, VRW13, ZLC+19],

FWP
[XWL+15].

G
[CMFL16]. G-Buffer
[CMFL16]. Gabor
[GK95, LLD11]. Gaia
[SIJM19]. Gain
[BSL19, FWK16, NSE+12]. Gains
[SHV+18, ZLX+18]. Gait
[JBS+18, WSH+19]. Galaxy
[MQF06].

Galleries
[JFY16]. Galvanoscopic
[PWG17, WG16]. Game
[CW12, CB15, MBZB12, WGYS18].

Game-Based
[CMFL16]. Games
[AZM12, BEJK12, Ch16, GW13, LXC+17, MI10, MY14, OA11, SK16a, SW17, VW12].

Gamut
[SLGM09]. GAN
[KTC+19].

GANViz
[WGYS18]. Gap
[BE18]. Gaps
[MDS+17]. Garments
[KZW+16]. Garuda
[NHN07]. Gaseous
[LWMK04]. Gases
[LIGF06]. Gather
[HOG+12]. Gaussian
[HLCB18, IAIK16, JG03, LZLS16, TWBBM17, WZ+11, WFW+17]. Gaze
[GJC+17, GLB16, HZL+19, KHH+16, LSV+18, MSM+11, RKC+16, RRD+13, SKYS14, SLK+17b]. Gaze-Aware
[LSV+18]. GazeDx
[SK+17b]. GazeVis
[SKYS14]. GDSPM
[BGK11]. Gel
[LLB+06]. Gel-Free
[LLB+06]. Gender
[PDB18]. Gene
[DWV+12, FNM13, SKL16, VVH02, ZNZX16].

Genealogies
[BGK11]. Genealogy
[NGL19]. GeneaQuits
[BDF+10]. General
[DLA+09, GRT17, GU000, IKLW14, LS02, LP02, MM11, MHDG11, PRA+10, WBE+06, YNM15, ZHGH11].

Generality
[GBHP08]. Generalization
[AA11, MWK14]. Generalized
[BDJH04, CCM13a, GMD+16, HB13, HLCB18, IHR01, IM13, JR07, LLWQ13, LWZ+16, QLM13, TP12, VvWvL06, WTS+07]. Generate
[HIK05].

Generating
[DLF+09, JDA+11, SG1M18, vHR08].

Generators
[DC17, KNP04, KCC+17, SG09, SRHZ11, THM15, WFM+06, WHM14, YHH+19, ZFL17]. Generation
[ALM11, BB09, BKRE19, BMW17, CK05a, CCM11, ERL+13, GKT+08, HW195, IYK01, KLM+08, KDBB17, KHB13, LHH+18, LS07b, LML+18, LSV+18, MWCE09, NLS+11, SSS+14, SRML09, TW18, TLLH12, VABW09, WZC+15, ZLL+15, ZLZ+18, ZTO9]. Generations
[DC17, KNP04, KCC+17, SG09, SRHZ11, THM15, WFM+06, WHM14, YHH+19, ZFL17]. Generation
[ALM11, BB09, BKRE19, BMW17, CK05a, CCM11, ERL+13, GKT+08, HW195, IYK01, KLM+08, KDBB17, KHB13, LHH+18, LS07b, LML+18, LSV+18, MWCE09, NLS+11, SSS+14, SRML09, TW18, TLLH12, VABW09, WZC+15, ZLL+15, ZLZ+18, ZTO9]. Generations
[DC17, KNP04, KCC+17, SG09, SRHZ11, THM15, WFM+06, WHM14, YHH+19, ZFL17]. Generation
Geodemographics [SDW11]. Geodesic [DdL14, HLD+08, PZLZ17, WT10b, XHF12, XWL+15, YSS+12]. Geographic [Fis07].
Geographical [TSH+14]. Geographically [DB07, YDGM17].
Geographically-Embedded [YDGM17].
Geography [GDST16]. Geologic [CRB+05]. Geometrically [BGR06].
Geometric-Semantic [SCOIT05]. Geometry-Based [CZQ11].
Geometry-Aware [SCOIT05]. Geometry-Based [CZQ+08].
Geometry-Driven [LHV06]. Geometry-Invariant [RYKL13].
Geophysical [KSSD14, WPB+11].
Geoscience [USKD12]. Geospatial [BDW+08, TMH+09, ZMT+19]. Geotagged [JHR10].
Geovisualization [KMM+13, LD11b, Rot13, WDSC07].
Geovisualizations [GR15]. Geriatric [MMH+13]. Get [GMY1].
Getting [RGFL14]. Giant [PLE+18]. Gibbs [VML97].
Gigantic [YSGM05]. Gigapixel [PK13, PST+15]. GIS [WSSL12].
Given [KCA16]. GL4D [CFHH09]. Glance [HE99, RMCW19, YDK+18].
[GLB+06, JKRY12, JY17, KSY14, KGPB05, KPR+14, LWZ+16, LGY19, LSPW12, LKM+18, NXSL13, NPPZ12, NDR96, PSKN06, QXF+07, RVWT08, SII95, SS95, VARS14, WWFT03, WPSh06].
Globally [JFZ+18, LBG+08, SJ10, ZM13].
Globbing [GHA+08]. Globe [BAB+18].
Glossy [WXK14]. Glyph [DTW+15, KW06, KBD13, MRSS+12, MSSD+08, TLS17, ZSL+16]. Glyph-Based [DTW+15, MSSD+08, ZSL+16]. GlyphLens [TLS17]. Glyphs [FIB+14, FIBK17, GRT17, HLNW11, JKM06, PW13, SK10, SBW17, WPL96].
God [ORC07]. God-Object [ORC07]. Gödel [GB08a].
Going [BOP15]. Good [BTSS+18, CLKS19, MS18b]. Gosper [AHL+13].
GosperMap [AHL+13]. GP [LWC+18]. GPL [ML+13].
GPU [BC12, BFTW09, CK11, CFHH09, FT07, GW06, GWBO12, GN12, HSZ+11, IM009, KKM+09, KMMH11, KKPS08, LBG+16, LQXL14, LCPD13, MN07, NKKH11, NHH14, PSR17, PF07, QCT13, RZH+08, RHSH11, RLW+11, SMP11, SR17, SN10, SHC+09, WX13, WZC+15, WAG+12, WR+13, vAPP+11, vPVvdW10].
GPU-Accelerated [BC12, KMMH11, PSR17].
GPUs [GCP+17, HL09, KL14, KM16, ME09, MGM14, VHSV16]. GRACE [MMH+13]. Gradient [AMC10, BHST17, BLM96, CHM11, GAM10, GKL12, HAM11, IVJ12, POD+13, ZSL+15].
Gradient-Based [BHST17, POD+13, ZSL+15]. Gradients [PT17, PMW+13].
Grained [DWB+09].
Grammar [DC17, PDGFE18, SMWH17, SMI19].
Grammar-based [DC17]. Grammars [ARB07, LBZ+11]. Granular [AvHK06, AHK+17, AHKMF11, AMA07, AMA08, ALMF19, BMGK08, BVB+11, CZQ+08, DDGL07, DLF+09, EHP+11, FYF+18, FWSL12, FT07, FT08, FT09, GHN13, GHL15, HMM00, HSL19, HZM+16, HEF+14, IK95, JHH+10, KKCI5, KHZR18, KMLM16, KCM18, LWZ+16, LCLM12, MWSJ14, MM08, NHM17, NSL19, PSF09, PHE+18, PBC17, PPP12, RSW01, SNG+17, SD12, SKL+14, TWC+18, VB16, VJC09, WWB+13, WSA+16, WHZ+18, WWS+18, WCC+19, WZZ+19, WFC+06, WCA+17, XRP+12, YDK+18, YCHZ12, ZGB+17, ZZBW08, vHR08, vHP09].

Graph-Based [HZM+16, MWSJ14, ZGB+17].

Graph-Cuts [WWB+13]. Graph-Level [SKL+14]. GraphDiaries [BFP14].

Graphic [DWA10, OAH14]. Graphical [BH09, HTP19, HMSA08, HPMC12, HKKS18, IIs14, JME10, KA12, MB01, RMW09, SSRE18, VB18, WCHB10, BDM+17]. Graphicle [MB19].

Graphs [APP11, AMA11, BW11, BBD+11, BBG+09, BW08c, CHK04, CK10, DN12, DN13, DKK06a, DKK06b, DRMM13, GKN05, GWP+16, HBW14, KMG+06, KG06, MK13a, MNS18, NGCL19, OKSK16, PV06, RM13, STS06, SAC+08, SS13b, TN13, WFM+06, WFM+12, WSW+18, WWS+16, YLZ+13, YDK+18, ZGB+17, ZG+18, ZBS12, vLDL03, vDZCT16, vLBR+16, TGSP09].

GraphSplatting [vLDL03]. GraphView [AvHK06]. Grasp [LFF+07]. Grasping [PB16]. Gravity [KCT+17, YQK+17]. Gravity-Reduced [KCT+17]. Gregory [Ano13e]. Grenlin [ORRL10]. Grid [BH07, GW06, GIK+07, HLMH07, WSM+09, YDG+16]. Grids [BCS11, BS11, CBPS06, Dic14, FC95, GJ10, IHR01, MSHC99, MDS16, SM97, USM96, ZCW19, GN12]. Grotto [KLYE13].


GrouseFlocks [AMA08]. Growing [MDS16]. Growth [BMJK09]. Guarantees [BLW14]. Guest [BSI18, BRS18, CGGR18, CKSB14, DW17, GKR14, KRTvW06, MY14, O015, SGR06, SW06, AD12, Ano12g, Ano13o, Ano15m, Ano16p, Ano16q, BvdP12, BDC17, BHTY15, BKL18, BLRW05, CCH14, CSL07, CW11, CFK12, CSL13b, DFQ12, DLM+12, Ebe00, Ert10e, FB107, GJK15, GW13, GMM05, HK10, HVY16, HKQ13, HP04, HLM10, ILM12, Joy02, JLS15, KMN04, KS14a, KKL11, KHSB11, KPLG12, KL14b, LS06, LSCN09, LST+16, LBDK09, LABS10, MSW19, MH10, MW13, Moo03, MFS+09, MYM08, NSvW11, OA11, PZ12, Puh09, Qin09, Pins99, RVWT05, SK16a, SK15, SSL08, SL11, SW17, TL11, Var01, VV12, WL17, WM15, Wy19b, vHMM+11, vWMT04, vW11]. Guidance [BSEN18, CGM+17, FM06, HPV+18, SMT13]. Guide [OHWS13]. Guided
Hair
[CBH17a, LHB19, WBB17, YJL17].
Hair-Solid [CBH17a]. Hair-Water
[LHB19]. Hairball [BJ14]. Hairstyle
[BC10a]. Hairstyles [UV16]. Hairy
[SB17]. Half [MS11]. Half-Silvered
[MS11]. Halos [BG07, ER10].
Hamilton [JFT10]. Hand
[BSB18, CL10, CL12, CGB13,
HSS18, TR119. Hand-Drawn
[CL12, TR19]. Handheld
[PT118, WLT118, ZJH11]. Handles
[ZWR13]. Handling
[CMF12, CR10, HDB12, PL12,
SH12].
Handoff [ZG118]. Hands
[MUS16, XLZ119]. hands-free [XLZ119].
Hands-On [MUS16]. Haptic
[AB01, CMHL11, CGB13, DD10,
EPS11, FM06, GLM17, JAO14,
JWC05, KEN06, LA11, MTS07,
ORC07, PLY08, PPS15, S17,
TYL18, UK12, WZW05,
ZK17, ZH07, UH19]. Haptics
[BL10, HRS18, HBS09, HQ04,
NN118, STH13].
Haptics-Based [HQ04]. Hard
[LYY08, WHL10]. HARDI [PPV11].
Hardware [CICS05, FM07, GLM06,
GU00, JvL13, JFT10, KXW18,
LMO2, MK09, QMK06, SPM13,
SR00, WWL07, WKE03].
Hardware-accelerated [FM07].
Hardware-Assisted [CIC10, LMO2].
Hardware-Based [WKME03].
Hardware-Decompressible [KXW18].
Harmful [CG14]. Harmonic [YCL12].
Harmonics
[BZG14, LLW06, LPG12, ZTX12,
ZT09]. Harmonization [FC15]. Harnessing
[McK09, PE19]. HART [NP11].
Hashed [WM19]. Hashedcubes [PSS17].
Hasse [CdOK16]. Hazard [Zha14].
Hazy [ZH18]. HDF5 [B10]. HDR
[YNP10]. Head [BWS19, BSE18,
CPW18, CDK17, DFG14, GIM18,
HHI18, HWH16, HR15, HVO0,
HZL19, IK15, ID15, IA16, KBB12,
Kra16, LCR16, LMD12, LH16,
LHC10, LR18, MZH08, MIO15,
dJBN17, OTS15, PIN15, PG17,
QPNI18, RKS13, RB17, SGG16,
SH18, SB11, XST18, XLZ19,
KDR].
Head-and-Eye [LMD12]. Head-Motion
[LX18]. Head-Mounted
[BSE18, CDK17, GIM18, HHI18,
HR15, IK15, ID15, IA16, KBB12,
Kra16, LCR16, LMD12, LH16,
LHC10, LR18, MZH08, MIO15,
dJBN17, PIN15, PG17, QPN18,
SB11, XST18, XLZ19].
Head-Tracked [HWH16]. Head-Worn
[DFG14, CPW18]. Heads [DH08].
Health [HHI17, KKL16, MMK17].
Healthcare [ZWA13]. Heart [BGP11].
Heat
[GKW12, GSZ13, KLG16, ZH107].
Height [BES12, GO02]. Height-Field
[BES12]. Heightfield [CM15]. Hemholtz
[BNP13a, BNP13b, BB14, PPL10].
Help [KNH19]. Helping [LB19].
Hemicubes [Max95]. Hemodynamic
[GLV12]. Hemodynamics
[MVB17, OJCP16]. Here [LKS19].
Heritage [LTPH17, WFS19]. Hertz
[BDF6]. Hessian [ZPP05]. Heterogeneity
[HCP15]. Heterogeneous
[AWB11, CDC07, CCQ14, GSA09,
GWE19, HKC12, KMD11, KLL13,
KSY14, LPCC17, MER06, SSL12,
Vis15].
Heuristic [PBN13, WAM19]. Hex
[MCK12]. Hex-Based [MCK12].
Hexagonal [LLW15, NPPZ12].
Hexahedral [DGW11, Dic14, XC19].
Hexahedralization [JHW+14]. Hi
[ETO+10, MSvG+11]. Hi-Res [ETO+10].
Hi-Trees [MSvG+11]. Hidden
[DW14, EIKS18, RFFT17, SGPR18].
Hiding [KSNY17]. Hierarchical
[AHL+13, Bac07, BKM13, BWK+13, CLCQ12, CDS+12, CSWP14, CLWW14, 
EF10, FKRW17, GW11, HSW11, HPvU+18, Hol06, HFL18, IVJ12, IYIK04, KHD02, 
KMT14, LBGV13, MV06, MB01, MT01, PLC+11b, PM08, SST+17, SG09, Si95, 
SDW09, SJ09, TS07, VC17, WXJD17, WXC+08, XNT11, XF04, YSZ04, YWSC12].
Hierarchically [FWR00].
HierarchicalTopics [DYW+13].
Hierarchies
[AMA11, DYW+13, GHJ+98, GGPPS13, 
HDJ05, KSH03, KMKY10, KHM+98, SE18, 
SHS11b, VBW16, WD09, WD10].
Hierarchy
[AMA08, BJY+18, BEHP04, CHK04, CL06, 
HIJW99a, HJJW99b, HSZ+11, LSJ+15, 
MB18b, SHS11a, Szy13, VHSB16, WBH04].
High [ALM11, Ano09b, BMR01, BWB07, 
BZGV14, BSL+12, BV06, ChLY09, 
CPK+05, CAN14, CF10, Cse13, DAW13, 
DK11b, FAW10, GPL+11, GBPW10, GS14, 
GLX+18, HBKS09, HE06, HB14, HAM11, 
KP+15, KBP14, KHZR18, LR07, LM10, 
LYS+10, LMZ+14, LKL+15, LLJO+14, LT16, 
LBH18, LWW+07, LCPD13, LMW+17, 
MCK12, MNKW07, MSHC99, NB95, NM13, 
NKH11, NLKH12, NKH14, NW11, OHJ+11, 
PNML08, RZHB+08, RYL+18, RPHI08, 
SK06, SSB+17, SSS06, SSIF09, SS06b, 
SRCP02, SRCP03, SHC+09, SB14, SPW07, 
SLW+10, SJK+12, TAE+11, TFH11, 
TLH12, TKBH17, WJO8, WSPV11, 
WM13a, WM18, WD09, WAG06, WMS98, 
WPS+16, WDW16, XYC+18, XXM19a, 
YRP19, YHJ+17, YDG+16, YNCP06, 
YRWG13, ZK06, vAPP+11]. High-Density [LBH18]. High-Dimensional
[ALM11, DAW13, GS14, LMZ+14, LT16, 
LMW+17, NM13, OHJ+11, SS06b, TAE+11, 
TFH11, TLLH12, TKBH17, WM13a, WM18, 
WAG06, XYC+18]. High-Dynamic-Range [SLW+10]. High-Fidelity 
[CPK+05, RYL+18, RPHI08, SHC+09].
High-Level [BV06, NB95, SKK06, 
SRCP02, SRCP03, SPW07, WD09].
High-Order [BSL+12, MCK12, MNKW07, 
NKH11, NLKH12, NHK14].
High-Performance [DK11b].
High-Precision [PNML08].
High-Pressure [SB14]. High-Quality 
[Ano09b, BMR01, BWB07, CF10, Cse13, 
FAW10, GLX+18, HE06, HB14, HAM11, 
LYS+10, LKL+15, LJLO4, LCDD13, 
MSSH99, NW11, RZHB+08, RPHI08, 
SSS06, SJK+12, YD+16, ZK06].
High-Relief [YHJ+17]. High-Resolution 
[CAN14, KHZR18, SSIF09, WJO8, WPS+16, 
WDW16]. Higher [BBG+09, LVRL06, 
SCT06, SBM+06, SW13, TLM05, ZG06].
Higher-Dimensional [TLM05].
Higher-Order [BBG+09, LVRL06, SCT06, 
SBM+06, SW13, ZG06]. Highlighting 
[AHKMF11, GR15, SOK+16a, SOK+16b].
Highly [PT17, SPP+14]. Hilbert [TC13].
HindSight [FDPH17]. HiPiler [LBK+18].
HiPP [MP08]. Histogram 
[BRP19, SRML09]. Histograms 
[CBB06, CM11, DCM13, GPL+11, IVJ12, 
LS13b, LLY06, NSW+17, SSD+08, SBG06, 
ZCW19]. Histology [JST+10].
Histopathology [FYTL19]. Historical 
[KZD+10]. Histories [AAM+12, BSBB10, 
BSKR19, HMA08, TRd12]. History 
[CDW+16, FDPH17, IWSK07, SSIF09].
History-Based [SSIF09]. Historygrams 
[JKRY12]. HMD [LHH16]. Hockey 
[PSBS12]. Hodge 
[BNPB13a, BNPB13b, BPB14, PPL+10].
HOLA [KDMW16]. Hollowing [WLW+18].
Hologram [SB+18]. Holograms 
[HAGS16]. Holographic [ZKG07].

I3D [GW13, SK16a, SW17, MI10, OI15, OA11, WY19b]. IBFVS [LvWJH04]. IBR [BHCST17]. ICCD [CTCYM09]. Ice [PSBS12]. Iconic [vWPSP96]. Idea [PGU12]. Identification [DANS10, LGG+18, LSH07, MVN+19, SZ11, VMN+19]. Identify [DNN13, LGM+18]. Identifying [AAM+12, GRS+19, LWLM18, NR18, WGS+13, YDK+18, ZCL08]. IDMV [ZCD19]. IDSS [ZBZ+13]. IEEE [Ano14j, Ano19a, DFQ12, ILMH12, Ano11i, Ano12e, Ano12g, Ano12h, Ano13j, Ano13k, Ano14c, Ano14j, Ano14k, Ano14l, Ano15a, Ano16f, Ano16a, Ano16k, Ano16l, Ano17k, Ano19e, BHGK14, BHTY15, BKL18, CR08, CCH14, CLS13a, DS17a, DS18a, DW17, ED08, Ert10c, GMM05, HY16, HKQ13, IHK+17, Joy02, KHS15, KHE09, KKL11, KHSB11, LSCN09, LST+16, MSW19, MW13, NsvW11, RvWT05, Sil17a, Sil17b, Sil18a, Sil18b, Sil19, vWMT04, vW11, Ano17e, Ano18a, Ano18b]. iForest [ZWLC19]. iForum [FZCQ17]. Illuminated [SZH97, ZM13]. Illuminating [EDK10]. Illumination [AZD17, BBA+11, BZG14, DWB+06, HXF+15, JKRY12, JY17, KSY14, KGPB05, KPR+14, KJL+12, LR11, MB18a, NW10, NDR96, QXF+07, RBDG15, RJ17, SMP11, Sil95, SS95, SEB19, SYR11, WB08, WSE07, WLDW11, WP06]. Illusion [SNB+17]. Illusions [BSWL12, PDBG18]. Illustrate [LSM03]. Illustrating [PGT+08]. Illustration [BPG12, CYZ+09, CSC06, JCRS09, KZL07, RE01b, RHD+06, SE09, ZH+11]. Illustration-Inspired [JCRS09, SE09].
[DSS'09, HBF08, JDA'11, KFN06, LLDF11, LWS'17, LB03, OPH'16, RSS14, SCKR08, VPB'11, WHA07]. Impulse [WG08]. Impulse-Based [WG08]. Impulsive [WGF08]. Impulse-Based [WG08]. Impetus [KG08]. Impulse-Based [KG08]. In-Depth [KJW'14]. In-Place [PBA10]. In-Progress [SPG14]. In-Situ [WKSS05]. Inbetweening [Yan18]. Inclusion [KBE'18]. Incomplete [KLC08, LIR18]. Incompressible [BK17, ICS'14, SP06]. Inconsistency [LLC15]. Incorporating [HOG'12, KLCK17, MFP'19]. Increased [BSSL19, MPG'14]. Increasing [BE06, SCKR08]. Incremental [DKM06b, KLM04, PSPM15, PML97, SASS16]. Independent [PBA10, SM09, WKME03, Zha14]. Index [Ano97a, Ano98, Ano09, Ano00b, Ano01a, Ano02, Ano03b, Ano04a, Ano09a, Ano09d, Ano10a, Ano10c, Ano11a, Ano12a, Ano12c, Ano12d, Ano13a, Ano13a, Ano14a, Ano14c, Ano15c, Ano15a, Ano16f, Ano16g, Ano16a, Ano17c, Ano17d, Ano18a, Ano19a, CD8'12, Ano13g]. Indexed [ZW18]. Indexed-Points [ZW18]. Indexing [BG04, CBL07, CdBOKR09, HK09, SR17]. Indicator [EDvW19]. Indicators [ALBR16]. Indirect [ACTM12, NW10]. Indirectly [RKC'16]. Individual [BOP15]. Indoor [PZL12, YYT16, ZAX18, ZGM18]. Induced [Hu16b, WTS'17]. Inductively [SRHZ11]. Industrial [AHR'11, GUFM15, HLR8'08, RGK'13, SLMA06]. Industry [KAKC18]. Industry-Scale [KAKC18]. Inelastic [WLT18a]. Inertial [GT14, GT17, SJ'17]. Inference [BK12, GHL18, LLL'19b, BDM'17, WCHB10]. Inference-Based [BK12]. Inferred [ZDJ'09]. Inferring [EFN12, NMB19, VAWB09]. Infill [WAWS18]. Infinite [Ba13, MCA'10]. Infinity [RS12]. Influence [FBL'18, FIB'14, HW12, LR11]. Influences [BGC'11]. Infographics [BAW16]. Inform [GS08]. Informal [BHP'12]. Informatics [ZWA'13]. Information [AJ17, AS05, Ano11i, Ano11l, Bac07, BKDE00, BI12, BSDW13, BEDF16, BBR+12, BE09, CLS'12, CJ10, CGJM19, DBD17, DCCW08, DRRD12, DLR09, ED07, ED08, EF10, FWR00, GTS10, GTS11, HW12, HA06b, HMM00, HSC08, IC07, IIS14, JH13, JHKH13, JS98, JSR'19, JRT14, Kei02, KCA16, KSL'17, KJW'18, KC14, LMK07, Lam08, LBI'12, LIRC12, LKH'16, LNS08, LS10, ME09, MK09, MTW'12, PBE19, PSM07, QWC'09, RHY14, RNE'17, SHM10, SMO'13, SPB08, SLQW17, TTR10, TIC09, WZ08, WII'12, XLS10, YaKSJ07, ZWA'13, ZCW'14, ZK08, vWN04, GLS17, HSKIH07]. Information-Aware [BDSW13]. Information-Theoretic [CGJM19, XLS10, CJ10]. Informational [BW14]. Informative [ZAM11]. Informed [DJ18, FA15]. InfoVis [Ano09e, WCHB10, Ano09d, Ano19f, Ano19g, HFM16, HAS11, KMN04, SW06, WM05, HA17]. InfoVis2009 [CWDH09]. InfoVis2009-1115 [CWDH09]. Infrastructure [BLO'05, KXZ'14, PAB'08]. INFUSE [KPB14]. Inhomogeneous [LSS'11, SLK'+11]. Initial [BE18]. Initialization [APV'15, SG09]. Initiative [HKR'14, WDC'18]. Infection [MGJH08]. Injector [MGJ'49]. Ink [WW07]. InkPlanner [LFW'19]. Innovation [Min13]. Inpainting [GGZ'18, HB14, KSY16]. Input [KZL07, XST'18, YEII12, YCHZ12]. Insect [KWDG11]. Insensitive [AFR05, Wan06]. Insertion [CLCQ12, HJLH19]. Inserts [LSK'+18]. Insight [GGZL16, PFG08, SN05, SNLD06]. Insight-Based [PF08, SN05, SNLD06]. Insights [GGZL16, HRD'19, KBE11]. Inspection [PTM'18]. Inspired [FCSF17,
JCRS09, LWC+18, MZH+08, NM13, RD05, SEA09, TFJ12, ZLDM16, vFWTS08.

Instabilities [LB0+06]. Instance [KCKL+19a]. Instances [OKB+19]. Instant [APV+15, HKL17, KAK+18]. Instructions [ZWBH13]. Instrument [BWS+19].

Integer [NW11, WJR+13]. Integral [BRP19, CMF+18, FW08, FC95, GKT+08, HGH+10, LS13b, LDN11, LM05, MBH+12, PLK12, SK98, Sm03, TKT09, WH09].

Integrality [MCG12]. Integrals [WPC+13].

Integrate [MDG00]. Integrated [GAMD10, MMH+13, RSD+13, SOL+16, Wal12].

Integrating [DQ07, DCM13, OSS+17].

Integration [CGC+11, CWT+08, CGB+13, FM04, HSW11, JYC+10, KPR+15, KBGE11, SCKR08, FWD+19]. Integrator [GSS+15]. Integrators [CAP18]. Intel [BWM+12, Wal12]. Intellectual [ZCL09].

Intelligence [BCB10, YSZ+19]. Intelligent [DZL+14, FM06, LF+19, TLM05, YCHZ12]. Intensity [IVJ12, SWB+00].

Intensity-Gradient [IVJ12]. Intent [NBM19]. Inter [GCL+18, LSS09, MGM09, NSS14, TIS16, VBC+16, WBA+14].

Inter-Agent [GCL+18]. Inter-Attribute [LSS09]. Inter-Personal [VBC+16, WBA+14]. Inter-Process [MGM09]. Inter-Reflection [NSS14, TIS16]. Interacting [ADWK+17, BPP+16, DDKA06, YHH+19].

Interaction [BIA17, BBG+18, BGR06, CMHL11, DK13, EFN12, FWS12, FDPH17, Guo09, GGZL16, HKR+08, HEG+17, HSTD18, JD13, JE13, KCE16, KPBL16, KMLM16, Lam08, LHBF19, LKB+18, LGYG12, LS10, MWCRO6, MCG12, MJ09, MBZ12, MF11, NW15, PBO+14, PK16, PmWc05, PSM12, RLM10, Rot13, RBLW07, Szs+17, SKBE17, SV+11, Sm07, SS18, SDMT16, TCM10, TFJ12, WBJ16, WLJ+12, WB05, YML+17, YaKS07, YSI+10, YEII16, HWA15, JSV+08]. Interactions [AL06, BOZ+14, CPW+15, DC17, GABJ07, GBCG+14, HSR18, JYC+10, JWL05, LIRC12, MRS+08, PDF14, RJD+07, SKY12, STM08, VBM17]. Interactive [AR07, AAMH13, AM13, BS+18, BSS+13, BGT12, BHC+13, BE18, BSM+13, BHZ+18, BWW+17, BBP0, BDSS18, BTB10, BNN08, BWT+11, BSS+11, GML+17, BM17, BTFT09, BTJ+13, CGSQ11, CGTH13, CZZ17a, CWT+08, CLT+08, CA00, CYB08, CDZ+09, CYW+16, CZZ17b, CMK15, CK05a, CLRP13, CFHH09, CML+12, CCB+18, CMP14, DNS10, DZM16, DBW11, DvV+19, DWF+19, DB07, FTYL19, FPB17, FTW10, FMH08, FSME14, FH16, FM16, GFG+14, GHX+13, GW13, GSA+09, GLK+13, GHL18, GPK14, HLRS+08, HBJP12, HKBR+14, HB10, HE06, HSK14, HT+08, HSSK16, HFG+12, HQ07, HC05, HTZ+11, Hub05, IC07, IIS14, JH13, JV09, JFS16, JWS04, JFTW07, JBH+09, JST+10, JJ09, JCG08, JKRY12, JY17, KSH03, KTC+19, KG+08, Kas12, KERC09, KLM+08, KMDH11, KL96, KHS+19, KZD+10, KSY14, KOJL+14, KKH02, KZX+14, KMG+06, KBH06, KPB14, KGPS13].

Integrators [KBE09, KKKW05, KSW06, KBE18, KML96, KKW+17, KCK+19b, LSJ+15, LB19, LCM07, LPP+06, LS13a, LKHW04, LBR+18, LDC96, LSR+13, LWZ+18, LGG+18, LBLH19, LY12, LH14, LWD+17, LDM+18, LCL+19, LDR00, LMT+03, LMC02, LCLM12, ME19, MB18a, MV06, MKN+07, MMB+19, MAST16, MGPH06, MGJH08, MGH99, MGJ+10, MH10, MJL+13, MY14, MI13, MAMK14, MRG+15, MQF06, MWC+12, MNC14, MHDG11, MPBM+18, NK11, NLK12, NHYY18, NW10, NTS11, NT09, ORR10, OH12, ODH+07, OA11, PZ11, PKL+18, PPL+99, PPZ+12, PHE+18, PMCS11, PTTB09, PH08, QYH+18, R01a, RGK+13, RHY14, RAL+17, RL19, RKK16, RGFL14,
NSvW11, OO15, OA11, Ota17, PZ12, Pur09, Qin09, Rus99, rvWt05, SK16a, SK15, SSL08, SL11, SW17, TL11, Var01, VW12, WL17, WM05, Wy19b, vWmt04, vW11.

Intuitive [JFY16, LH03, SJM14].

Invariance [LJWF12]. Invariant [GST16, RBN+19, RYKL13, TKW08, YSS+12].

Invariants [BHSH15, RC06, SM+07, WH09]. Inverse [BKA+11, CLEK13, HSK17, YKL+08, ZDZ18]. Inverted [TLC+10].

Investigating [BRH+17, HJC14, KDX+12, LD11b, TJW+17]. Investigation [FFB18, JH16, SCKR08]. Investigations [KHSI04, PMCS11]. Investigative [BISM14, aKGS11, KFS+19, cKJG+12].


IRIS [HG+09]. Iron [FG+09]. Irradiance [DF06]. Irregular [BG04, Bon98, HCP+16, SS+06, SM97, VP04a, WHL16]. Irregularly [ZG12]. ISA [LvWH04]. ISMAR [KHSB11, LBK09, LABS10, Ano15h, Ano15i, Ano15j, Ano15k, BSI18, BR18, CGR18, KBB+18].


Isoparametric [Elb95]. Isosurface [Ano96b, AE13, ASE16, BB09, BWC04, CBB06, CMM+97, DCM13, ESN+09, ENS+12, GU00, HL09, IK95, IYK01, LBS14, LSJ96, MCK12, MKW07, NN11a, NN11b, NK06, SSD+08, SF14, SJ06, SH00b, TIW+19, WM+05, WFKH07, WJ08, WC09, WC10, WW+19, WCJ06, ZK06].

Isosurfaces [GSDJ04, KW10, SSS06, SEH08, WD10, WPSH06, YWW14].

Isosurfacing [LB03]. Isotropic [SAS05]. Isotropically [MCMCE09]. ISP [HKC+12].


ITK [BVW+07]. iTTVis [WLS+18]. iView [ZAM11]. iVisDesigner [RHY14].

JackIn [KNR17]. Jacobi [JFTW07, TC17]. Jam [WZvdW13]. James [EDK10].


JITTree [LBG+16]. John [Ano13d].


Judgment [RKS13, YHR+19].


Just-in-Time [LBG+16].

KAVAGait [WSH+19]. KD [WFM+05, HL09]. Kd-Jump [HL09].

KD-Trees [WFM+05]. Keeping [HQ+18].

Keim [Ano11]. KelpFusion [MRS+13].

Ken [Ano14g]. Kernelized [BPP+16].

Kernels [DBH14, HUPS14, RSR+18].

Keshif [YEB18]. Key [CTT+16].

Keyboard [LIRC12]. Keyframe [GSCI15, PLW11]. Keynote [Ano13u, BAI13, Cze12, Heg10, Min13, Sat13, Seq12, Tha11]. Keyword [FFB18, RGP+12].

Keyword-in-Context [RGP+12].

Keywords [IIS+17]. kHz [BWS+19]. Kick [PVF13]. Kick-off [PVF13]. Killing

Knitwear [CLZ+13, GRS95]. Knot [CLQ12, HHQH17, ZWJZ12]. KnotPad [ZWJZ12]. Knots [GHK97]. Knowledge [AS05, CB15, KBKM07, MWN19, SSS+14, SS06b, WS18+19, WGZ+19, ZG18].

Knowledge-Assisted [WSH19].

Knowledge-Based [KBKM07].

Knowledge-Transfer [ZGI18].

KnowledgePearls [SGP19]. Known [RNK+15].

Kong [QCX16, YZG16].

Krueger [Han95].

Kwan [Ano13f].

Kwan-Liu [Ano13f].

L [MCA+10]. L-Infinite [MCA+10]. Lab [Ano05c, BTC13, KTC+19]. Label [CLG16].

Labeling [BDY06, BHZ+18, CG08, FHS+12, KCK+19a, MTM+16, NW11, LSC08].

Labels [YSI13, KCK+19a, TLH10].

Lagrangian [BTT09, GHP+16, HOGJ13, JEH02, SP07, SWTH07, SXM17, SFB+12, Wu16, YNBH11].

Lake [UDSL18]. Lambertian [MBT+18].

Lamps [RKK16]. Landing [GS16].

Landmarks [Hu16a].

Landscape [IV11, OHWS13, TSD09].

Landscapes [TSM+07, WBP07].

Language [CCQ+14, DR08, HB10, KCS+16, LLL+19b, NW15].

Languages [DWBR06, RBGH14].

Laplacian [ATL06, ZHX+11].

Large [AVHK06, AHH14, AGL06, AABH+16, AAMG12, AAMH13, APS+14, APW16, BW11, BDJ14, BBD+11, BA8+13, BDF+10, BBP08, BBD06, BWT+11, BTC10, CBPS06, CGC+11, CMCL06, CWW10, CGH+19, CMK15, CPK+05, CK05b, CAN14, CVC+12, CLB+16, CLW14, Di14, DGWC10, DYW+13, DHR+19, FSHH12, FSW09, GKN05, GCL+15, GSS+15, GPL+11, GHGM06, GHA+08, GCL+18, Guo09, HSS11, HAAB+18, HHWN02, HDSC19, HE99, HSSK16, HBC12, HC05, HTE11, IWR+18, IV11, IDW+13, JH13, JST+10, JS98, JHP+14, JDA+11, KSH03, KFDL07, KLK+09, KKP+17, KZX+14, KJW+14, KGJ09, KML96, KCM18, LKD19, LKB+18, LSS+11, LFH06, LFH10, LZX+12, LWT+17, LXR19, LBS+19, MS08, MGM14, MNS18, MG09, MOC+14, NLS11, PFV09, PFW12, PH3+10, PY09, PGI+17, SMD14, SX17, SF19, SHS11b, SMER06, SCL+12, SKH+19, USM97, WGS07a, Wan11, WFW+17, WWZ+19, WSL12, WDCC07].

Large [YHW+07, YXM+15, ZBG+17, ZMT+19, ZBDS12, dLV06, vHP09, vWN04, vdZCT16].

Large-Magnitude-Range [ZBG+17].

Large-Scale [APS+14, BWT+11, DI4+14, DGWC10, FSW09, GCL+18, HAB+18, HDSC19, JST+10, KKP+17, LFWH07, LZX+13, LXR19, LBS+19, MEG09, MOC+14, PFV09, PFW12, PY09, PGI+17, SMD14, SX17, SF19, SHS11b, SMER06, SCL+12, SKH+19, USM97, WGS07a, Wan11, WFW+17, WWZ+19, WSL12, WDCC07].

Large-Scene [APW16].

Largest [SWC+08].

Lark [TIC09].

Laser [GK95, KIS17, PWG17, VAB12, WH16, ZZSS10].

Last [LNR96, LBS+19].

Latency [BWS+19, FS14, FSTG16, FKS16, LBS+16, LH14, OWS15, SQG16].

Latent [HLG+14].

Lattice [AEM09, BLW14, Cse10, Cse13, EM06, EVM08, GLX17, KEP08, Kim13, LPP14, QXF+07, WZF+04, WLMK04].

Lattice-Based [QXF+07, WZF+04].

Lattice-Boltzmann [AEM09, WLMK04].

Lattices [AEM09, HAM11, PQF+09].

Law [KH16, MMT+14, HYFC14].

Laws [ZK10].

Layer [IHS17, LBM+06, SVL10, SW+16, WLS10, YB+19].

Layer-Based [WLS10].

Layer-Wise [SWF+16].

Layered [BW11, BWH06, BH07, ICH05, KSO0a, KSO0b, KSO1, KA12, MTS07, OKS16, WWY14, ZHC18].

Layering [RASS17, ZHF12].

Layers [GQGP17, RBG07, SBV+11, WTP+19].
Linked [CvW11, FG99, JDL09]. Linking
[HTL13, KPV+18]. Links [SWS+11].
Liquid [CM14, CMK15, Dic14, GLX17,
JKM06, MLMF12, MJK06, SPCJL06].
Liquids [LIGF06]. List
[Ano00a, Ano01b, Ano03a, Ano04b, Ano05e,
Ano06, Ano07, Ano08a, Ano09c, Ano10b,
Ano11b, Ano12b, Ano13b, Ano15b, Ano15n,
Ano17a, Ano17b, Ano19b, Ros11, Ano14b].
Listener [MAKM14, MDHB]
Listener-based [MDHB+07].
Listening [BSSB10]. Lists [HBW14, IK95].
Lite [SMWH17]. Literacy
[BRBF14, LKK17, RM15].
Literary [HFM16]. Literate [WKD19].
Literature [BKW16, FHKM17, SZS+17].
LitVis [SOL+16]. Liu [Ano13f].
Live [HB13, LMD12, MNZ+15, MFZ+17,
SKH+19, TKTN09]. LiveGant [JHP+14].
Liver [HCP+15]. Lives [BSSB10, TKE16].
LiveSync [KBKG07]. Living
[IWSK07, MLMF12]. LloydRelaxer [LT18].
LMap [NGK18]. Load
[DL12, NLS11, SBS16, ZGH+18].
Load-Balanced [NLS11]. Local
[CRT04, DK13, DMC+12, DVC18, EBB+15,
HLY10, JWSK07, JCC+11, KV03, KO12,
KW14, LS13b, LWZ+16, LGY19, LLL+10,
LZLS16, LLY06, LKM+18, MGW10, NGK18,
NOB16, OHWS13, PSKN06, PMCS11,
SWB+00, SPP+14, SSV18, WZW+05, YC14,
YNM15, ZGZ+12, ZCW19, vLBB16].
Local-to-Global [IWZ+16]. Local/Global
[LG19]. Locality [JM10, MFS+09].
Locality-based [JM10]. Localization
[APV+15, LD11a, VARS14, Zho16].
Localized [APS+14, WGS07b, YBZW14].
Locally [Gue09, MB18b, RLNN11].
Locally-Ordered [MB18b]. Locate [VP09].
Located [IFP+12, IC07, LHD18, TIC09].
Location
[EPS+15, GJ10, GJC+17, PBK+12].
Locations [LWL+17]. Locomotion
[GPK14, KFL+15, MK13a, NSN14,
OBKP18, PFW12]. Locomotive [ANR+18].
Locus [ZOC+13]. LOD
[LKC09b, WS06a, PFK07]. Logarithmic
[BBD06]. Logical [IBJ+14]. Logistic
[DVH+19]. Logs [BMJK09, GGZL16].
Long [LDN11, LCNG14, LD11b, MVN+19].
Long-Duration [MVN+19]. Long-Range
[LCNG14]. Long-Term [LD11b].
Longitudinal [BN11, PGU+13, SNLD06].
Look [BRP19, KH16, KMC18]. Look-Up
[BRP19]. Looking [Fis07, TTN17]. Looks
[CLKS19]. Lookup [MAST16]. Loop
[BKA+11, LCP+13, LRZN11, TGSP09].
Loops [FT13, XHF12]. Lossless [FM12a].
Low [ASDW14, DRHK07, FSTG16, FKS16,
GGZ+18, HHM14, KM10, KWDG11, LLR18,
OMD+12, PSSC17, PS12, RZP+07,
WLHD17, XYC+18, YBZW14]. Low-Cost
[DRHK07, KM10, RZP+07].
Low-Dimensional [HHM14, XYC+18].
Low-Pass [ASDW14]. Low-Rank [LR18].
Low-Resolution [PS12, YBZW14]. Lower
[AS11]. LoyalTracker [SWL+14a]. Loyalty
[SWL+14a]. LSTMVVis [SGPR18].
Luminaires [LPG15]. Lyapunov
[BGT12, GT17, GHP+16].

M [Ano13e]. Ma [Ano13f]. Machine
[FWG09, KMC18, SKKC19, TKC17,
ZWM+19]. Machine- [TKC17]. Macro
[MRSS+13]. Magic [BHST17]. Magnetic
[GPP+16, SCT+10, TYL+18]. MagnetViz
[SD12]. Magnification [PBA10].
Magnifier [ZZG+12]. Magnitude
[BDJ14, GU000, KRHH11, ZBG+17].
Magnostics [BBH+17]. Maintaining
[FSSH12]. Maintenance [HF11, SLMA06].
Majorization [WWS+18]. Make
[LLK+16, OSDK12, YAE07]. Makes
[BVB+13]. Making
[CDW+16, IIS14, KDX+12, PSTW+17].
Management [BTC13, CMRS03, ET08,
FWL17, GZL+14, IYS13, KWS+14, LSJ+15,
MBH+12, PFK07, TLS17, WP18]. Manga

Manga
[YHL+17]. Manhattan [VAB12].
Manhattan-World [VAB12]. Manifold
[GTLLH01, HHQH17, KW11, KBH13, LPG12,
PYW+16, SJW07, TFO09, ZCFL15,
ZWM+19]. Manifolds [DMR04, ZWR14].
Manipulate [JAAL18]. Manipulated
[SBS16]. Manipulating
[GGL+14a, HBM+13, MJ09, PIS15].
Manufacturing [BBK07, CK05b, CSC06, KC14, KYT+18,
MCG12, OKB+19, SLMA06, TMDO15,
YHL+17, YJL+15, ZWS+17].
Manipulations [KISE14]. ManiWordle
[KLKS10]. Manoeuvres [JPD+18].
Manometry [KHZR18]. Mantle [SPO+12].
Manufacturing [ACR+19, JHP+14, WAWS18]. Many
[ASMP17, HBC12, KPBG13, OBS+15,
SHC+09, Wal12, WC13, YDGM17, YCHZ12,
ZK14a]. Many-Core
[HBC12, SHC+09, ZK14a]. Many-Light
[WC13]. Many-to-Many [Mantle].
ManyEyes [VWvH+07]. ManyVis
[RSR+13]. Map [AABS+14, APP11,
APW16, BT13, BDM+17, BDY06, BDD+16,
BSV11, CLG16, CDBR14, CM16, DWS10,
EWWL98, FYWY16, GXX+13, HGWW18,
HR96, HSL19, Jen12, JHr10, KCH11,
KLG+16, KSB18, NB12, SRMOW11,
WS06a, WP16a, YYY17, YKL+08, YSS+12,
ZMZM15, MTS07]. Mapped
[FFYW16, PS12]. Mapping
[AI18, BKA+11, CXM19, DT10, EWWL98,
FST+14, Guo09, GZ14, HAT+00, HUPS14,
HWL+11, HZH14, JKR12, JY17, KLS+18,
KKW+17, LYY08, LBG+08, LGQ09, LGY19,
MZX15, MN07, MBB18, NWI17, PNML08,
PSN10, PWG17, SGs+19, SKP07, SJB10,
SLS+17, SHC+09, SJ09, SC10, THY+14,
XYGL13, YLY+12, ZMG+10, ZDM13,
ZSG+13, ZKK02, vHWV09]. Mappings
[HSK17, NGK18, PMH18, RGE19]. Maps
[AMJ+12, AYR09, APV+15, BMJK09,
BJB+12, BSR+14, CH17, JDL12, JYDFV19,
KMM+13, LLHL14, MSME14, MV06,
MKH12, MTK+17, MDL+19, NE04,
NHB+17, NW11, OBS+15, RCSJ18,
RASS17, RM13, SKB+18, SWvdW+11,
SST+17, SLQW17, TIW+19, TGS11, VT08,
WC11, WZC+15, War09, XHL18, YDJ+19,
YGFX19, ZFL17, ZM17, vW14, KFS+17].
MAQUI [LLMB19]. Marbling [AB06].
Marching [DS+08, DSS+09, LB03, Nie03].
Marginal [XZM17]. Mark [MSM+11].
Marker
[KSNY17, LZD13, LJJ+18, NWI17].
Marker-Based [LJJ+18]. Markerless
[CMPC06, LH09, MGL07, SM09, SLS+17,
WLT+18b, XLC+18]. Markers
[AI18, BDJ14]. Markov [PBL10, RS12].
Martian [YYY+17]. Mashup [WDSC07].
Marking [GO15, LLPP19]. Masks [KM16].
Mass [AAFW17, CM14, DT10, EGG+12,
FT09, RB18, SVC12, ZSG+13, vLBR+16].
Mass-Conserving [CM14]. Mass-Spring
[SVC12]. Masses [VAR12]. Massive
[AK02, ADWK+17, AA11, CL18, CCL+16,
KSY14, PSN10, SO05, veEHBrW14].
Massively [LLB+12]. Massless [SLNB11].
Master [TA15]. Master-Slave
[TA15]. Match [LDW+15, PYHZ14].
Matches [BNT16]. Matching
[CCM+13b, FKL10, FSH12, HEWK01,
KSB18, LRP97, LZWQ17, LPF07, LB17,
MGMP18, SSE15, TWSS16, WSW16,
XLD11]. Material
[AGD110, BDS+03, HIH+18, HKG07, IZM18,
LLL+10, POD+13, RYK13, SVAC12,
SFA+15, SRKL19, UMW+12, WLLL15].
MaterialCloning [YLC16]. Materials
[BSS+13, BHTF07, GKL+16, HWW18,
LB15, MBT+18, RBDG15, Vis15].
Mathematical
[GK97, KLMA10, ZFSL19]. Mathematics
[HP04]. Matrices
[DWW12, LBK+18, PDF14, ZCL09].
Matrix [BBH+17, CMP09, CLR13,
EDF08, IML13, LLR18, TIW+19, VMCJ10,
**Message**

[Ano13n, Ano13o, Ano14n, Ano14o, Ano15i, Ano15j, Ano15l, Ano15m, Ano16n, Ano16o, Ano16p, Ano16q, BS18, BR18, CGGR18, CFK12, CLS13b, CKB14, De 15d, DS16a, DS17b, De 18a, DS18b, De 19b, DLM+12, Ert07a, Ert10d, De 16a, Fl17, IKLW14, Lin11d, Lin11c, Lin12e, Lin12a, Lin13e, Lin14d, Mue19, vHMM+11]. **Messages**

**Meta-Analysis** [ZGB+17]. **Metadata** [IKH+17]. **Metal** [AHR+11, DBTH07, GBM+12]. **Metal-Artifact** [AHR+11].

**Metamorlaph**

[BW01, LWCS96, LH03, LL05]. **Metaphor** [AABS+14, KISE14, SGAS16, WBP07]. **Metaphors** [CVC+12, MF11, ZK08].

**MetaTracts** [BBW+17]. **Meteorology** [RBS+18].

**Method**

[AEM09, AWB11, BBBM18, BGB15, BRT10, CB15, Dru08, FYZ+17, FA15, IHK05, IDAK15, KOF08, LLL06, LLLF08, LSY+18, LCL+19, MWCE09, ORC07, RGG+13, Tay02, TS08, VS11, WH09, WHK15, WLMK04, WMMK13, XTY+11, YSS+12, YLY+12, Zag96, ZCL08, QJD+08]. **Methodological** [DB18]. **Methodology** [AABB12, RHR16, SNDO5, SMM12, VJN+15].

**Methods**

[AL06, AJDL08, AM+08, AHH+14, BS08, BNTM16, BN12, CA00, CWQ+07, CMK15, CF10, CHM11, DLW+17, DSC+08, DLR09, EMdSP+15, FCL09, GIMS18, HG01, KMLM16, LKJ+05, LH11, LXL+18, LD11b, SZB+09, SBM+06, SO17, TAE+11, TWH505, VF13, WHZ+18, ZK12, HSKH07].}

**Metric**

[CZN+11, GSZ+13, LJJX+10, LMZ+14, MK13b, OJ12, PZLZ17, VCP08, WGS07a, WOO17, YZS06, CS18]. **Metric-Dependent** [VCP08]. **Metric-Driven** [LJX+10]. **Metrically** [PMT+19]. **Metrics** [DK10, GO15, GGZL16, JJ09, MDHB+07, NHEM17, Vas16]. **Metro** [NW11, SRMOW11, WC11, WP16a].

**Metrology** [HKG07]. **Metropolis** [ZYM+14]. **MGV** [AK02]. **MIC** [WALL, BWYW+12]. **Micro** [LPR+19, ZHLR14]. **Micro-Robot** [LPR+19].

**Microfacets** [MBM+18]. **Micrographs** [DBTH07]. **Microscopic** [BKKW19].

**Microscopy** [BA+11, BJ+19, HBJP12, MCS+08, dLV06, WOCH09]. **Microseconds** [LBS+16]. **Microstructure** [BZGV14]. **Microvascular** [GWE+19, MAK08]. **Midair** [HQS18]. **Middleware** [BFE15].

**Migration** [KSG+16]. **Millennium** [FSW09]. **Mind** [NBM19]. **Minerals** [GFG+14]. **Minimal** [HYB+17, LBW19, LBS+16, PSF09]. **Minimally** [ES01]. **Minimization** [RB07, SSW18, WLT08]. **Minimize** [OKSK16, YYSZ06]. **Minimum** [CXR09, KMH11, VC17]. **Mining** [BIS14, GWP+16, Kei02, Ks02, LLMB19, MOC+14, dOL03].

**MIP** [EWWL98]. **MIP-Map** [EWWL98]. **Mipmap** [LKC09a]. **Mirage** [ZHF+07]. **Mirror** [CSPN11, MSM+11].

**Mirror-Symmetric** [CSPN11]. **Mirrors** [DT+17]. **Mismatches** [BNTM16]. **Missing** [SS19]. **Mitigating** [DBBF19]. **Mix** [AW14]. **Mixed**[Bro07, CLB13, CGB+13, DH08, GKR14, GJK15, HLR+08, JAM+14, JLS15, KJOC12, KHSB11, KTW13, KLD+09, KLL12, LRM+13, LBKD09, LABS10, NQX+05, NW11, PLE+18, PWG17, RPAC17, WDC+18, XST+18, HWA15]. **Mixed-Initiative** [HKR+08, WDC+18]. **Mixed-Integer** [NW11]. **Mixed-Reality** [KLL12, NQX+05]. **MixedFusion** [ZX18].

**Mixing** [BJEYLW01, LB+06]. **Mixtures** [LZLS16, WC+11]. **MizBee** [MPG09]. **MLS** [LGM+08]. **Mo** [XCY+19]. **MOBA** [LXC+17]. **Mobile** [BBBM18, BMWW18, BLIC19, BTJ+13, CPW+18, DH08].
HBESB11, HAGS16, KPR+15, KM16, HKS17, LS07a, LH18, LOD16, LSV+18, NJ16, OKI15, PKMR15, RBDG15, RJG17, SOS+17, VARS14, WR+16, XCZ+19, XLZ+19, YC14, YLC+19. MobileFusion [OKI15]. Mobility [AAFW17, DSC+16, WXZ+16, ZFA+14, vLBR+16]. MobilityGraphs [vLBR+16]. MOObjects [RGK+13]. Mobs [nGAB16]. Mock [VB18]. Mock-Ups [VB18]. Modal [CR05b, GMD13, MDS16, SL18, DDB+19]. Modality [BOGOJ16, DI08]. Modality-Driven [BOGOJ16]. Mode [GPK14, PH07, vCV+14]. Model [AB06, BMR+19, BLL19, BSL+12, BAF+13, BMST97, BC12, CBL07, CK05a, DPW+15, DK13, EAS+19, EF12, FG99, FBLS05, GHN13, GCL+15, GPR+01, GBP+13, Guo95, HLRC+12, HZL+19, HLYL18, IZM18, JKM07, JD13, JA18, JVD+19, KPBG13, KSI+96, KPH+03, KBVH17, KSD+14, LKL+15, LKH+16, LKT13, MD12, MOF09, MOF10, MGJ+10, MHD+18, ME09, MM11, MWC+12, MTB17, MB18, Mm09, MT01, N006, ORR10, PY09, RKK16, RLA+13, SSS+14, SVAC12, SZD+10, SASS6, SJH+07, STPV12, SO17, SRK19, SSL+12, TGH12, TL07, TLC+10, THV+14, TFC+11, VSS08, WZ+05, WZC+11, WP+16, WMH14, YLX+12, YML+17, YLSC11, YS17, ZPS04, ZWW+12, ZWM+19, ZFSL19, ZT09, vW04, vLBB16]. Model-Agnostic [ZWM+19]. Model-Based [BC12, CBL07, FBLS05, RK16, SO17, WZ+05, vLBB16]. Model-Driven [KSI+96, SSL+12]. Modelers [GDJ+13]. Modeling [BTB+04, BGK11, CVC10, CLR13, CCB+18, DC17, De08, DCKY02, DQ07, EASS+18, FWQ13, FGBB09, FM04, GRS95, GLX17, HW18, HR96, HFG+12, HQ12, HQ04, KCA16, KPH+03, KPB14, KGPS13, KKM+09, LA11, LPS+13, LV12, LPQF14, MQV00, MAST16, MM11, NMGK17, NDM+97, Ney98, NRS15, PDRK19, PK08, PW12, PDW+14, Qin09, RNE+17, SPEB18, SW+11, SJM14, Sza18, TMH+10, WLL+12, WXJ17, WFW+17, WX17, WBB+07, WZ+04, WTP+19, WKW06, XYS+16, XSZ+17, XA09, XA10, YJL+15, ZZS10, ZLD+14]. Models [AG16b, ATK16, ADD12, ESE16, BW04, BDK98, BW01, Bru17, CGD97, CC08, DvVH+19, FBL+18, GJG+15, GNDV+18, GMD+17, HCO95, HKYM17, HK01, JK16, KAKC18, KTC+19, KL14a, KMT14, KSY14, KML96, LH03, LL05, LJIW08, LR11, LS10, LZZ16, LSC+18, LL19b, Max95a, MJ06, MGF14, MF11, MWN+19, MP13, NT03, OBLN17, PML97, RE01b, STB18, SFK+07, SGB+19, TLQ08, TCYM09, TBW01, US016, WKCB07, WH09, WZQ+18, WSS12, WSW+18, XESV97, YSGM05, ZK07, ZWM+19, ZH18, ZL16, ZJH07, ZST07]. Modification [LSJ+15, MDS+18]. Modified [GHA+08, WZK12]. Modifying [AMA11, JAO+14]. Modular [AHSS14, DVI5, OTKS15]. Modulating [UBH19]. Modulation [MDM10, RLL+13, TIS16]. Modulator [IHS17]. Mohr [CRB+05]. Molecular [BPG12, BL+16, CG07, DHR+19, GRV07, GBM+12, GBCG+14, HEG+17, KBE09, LB11, LBH14, PB13, SVGR16, TCM06, KFS+17]. MoleView [HTE11]. Moment [BSSH15, CRT04, SHM+07]. Monitor [TGW+95]. Monitor-Based [TGW+95]. Monitoring [BTH+13, CLZ+18, MKN+07]. Monocular [HBC15, VARS14, ZHQ+07]. Monte [HKL17, LSPW12, Sbe97]. MOOC [FZCQ17]. Moore [TC13]. Morph [WR11]. Morphable [CLC+15]. Morphing [CE01, RM15, SLGM39, WLL+05]. Morse [CML+07, CMLZ08, CDS+12, GNP07, GBHP08, GBP12, GKK+12, GGL+14b, GBP19, LTT04, SMN12, SZ12, SY3, SS13b].
Mosaic [HCP+16]. Moseying [AZL+19].
Motifs [MRSS+13]. Motion
[AW03, BWK+13, BCR19, BTW14, BWS+19, BB19, BSWL12, CK16, CLL08, CLAL12, CBL07, FXG12, GXW+18a, GXW+18b, HOT98, HCMTH15, HZM13, JER16, KERC09, KCPS08, LPG+18, LMD12, LZD13, LHC19, LL19, LGY12, LPHL11, LBS+16, LC10, LSO03, LXRY18, LKH+18, LKM+18, MCP+06, MK13a, PLW12, RK17, SKK+14, SKC+19, SYK+18, SLG+17, SZ11, SBE+15, TAL+07, WHK15, WLT+18b, WSTH07, XLC+18, XCY+19, YN03, YAE07, ZJH+11, ZZH19].
Motion-Blur [PLW12]. Motion-Sensitive
[SZ11]. Motion-to-Pose [BWS+19].
MotionExplorer [BWK+13]. MotionFlow
[KJ16]. MotionRugs [BJC+19]. Motions
[ASvdP14, BvL06, HK09, HK16, yKL12, JER16, KGP07, LIRC12, RHR09, LK16, LPLT11, LBS+12, LLNN17, LXX10, LHC10, MIO+15, AAB13, AAFW17, BPS13, CYW+16, DNN13, KTE15, MIP17, SJL+18b, ZMT+19].
Motivated [JKM06]. Mountains
[CCB+18]. Mounted [BSEN18, CDK+17, GIMS18, HHH+18, HRISI15, IK15, IDAK15, IAOK16, KBB+12, Kna16, LCR16, LH16, LHC10, MIO+15, dJQBN17, OTKS15, PIN+15, PGI+17, QPKH18, SBK+11, XST+18, XLZ+19, XCY+19]. Mouse
[LIRC12, RHR+09]. Movement
[ARH+15, AA11, AABW12, AAH+13, AAP+13, AAFW17, BPS13, CYW+16, DNN13, KTE15, SMP17, SJL+18b, ZMT+19].
Movements
[AdLH13, LKD19, PZ07, ySKK07]. Moves
[SSV18, WZJ12]. MovExp [PBO+14].
Movie [BJEY1W01, LLK17]. Moving
[KGG98, LG12, MDM14, MB+14, PLK12, SP96, WBD14, ZLY18]. MPI
[CGC+11, GPC+17]. MPI-Hybrid
[CGC+11]. MPML3D [PUN11]. MR
[LBS13, MNNK10, ZL03]. MR360
[RPAC17]. MRI [AS19, BPM+13, JFTW07, KGP+13, KGG+12, MN07, STS07, STS10, vBB+10, vBB+11]. MRTRace [XST+18]. Multi [APW16, BHH19, BSM06, BJM07, BBP08, BL07, BM13, BDW+08, CLG16, CWK+07, CCM+14, CLW18, CP09, DVC07, DDW14, EBB+15, FT07, GSL+17, GLG+13, HAO+14, HCG07, HBC12, HZM13, IWR+18, ICM18, KKP+17, KKK+19a, KLS+18, LLRR08, Lin16b, LPQ14, LD11a, LPP+16, LRF+11, MS18a, MS18b, MDS16, MS18, ME11b, NSW+17, PSTW+17, PLS+14, PTMB09, PLE+18, PWIG18, PHF07, PBK+12, PBC17, RLM10, SLG09, SLM18, SKMH14, SLS+17, SJH+07, SGAS16, SHK+19, TAK+05, TIK15, TS08, VBK17, Wah+14, WSW16, WLS17, WCC+18, WAG+12, WS06b, WXC+08, WCS+18, YML+17, YBW+19, YXG+10, ZFL17, ZCL+19, ZWC+18, ZLC+19, WOCH09, WBD14]. Multi-
[MRC12]. Multi-Attribute
[GLG+13, SGAS16, WCC+18].
multi-channel [WOCH09, WBD14].
Multi-Character [VBK17]. Multi-Charts
[DDW14]. Multi-class [CCM+14].
Multi-Client [SKH+19]. Multi-Criteria
[HDM13, PSTW+17]. Multi-D.O.F.
[TAK+05]. Multi-Depth-Map [APW16].
Multi-Destination [ZFL17].
Multi-Dimensional [WXC+08, ZWC+18, ZLC+19, LLRR08, LPP+16]. Multi-field
[LLR08, WSW16]. Multi-Focus [TS08].
Multi-Focused [BDW+08]. Multi-GPU
[WAG+12]. Multi-Granular [GSL+17].
Multi-Instance [KCK+19a]. Multi-Interaction [YML+17].
Multi-Label [CLG16]. Multi-layer
[YBW+19]. Multi-Level
[BMI3, FT07, KKP+17, ME11b, SJH+07]. Multi-Material [HCG07, ICM18]. Multi-Modal [MDS16, SLS18].
Multi-Normal [ZCL+19].
Multi-Parameter [NSW+17]. Multi-Pipeline [MiS+18].
Multi-Projection
[KLS+18, PWIG18, SLS+17, TIK15].
Multi-Projector
Multi-Relational [PLS+14].
Multi-Relaxation [LPQF14].

Nodular [WKB+13]. Noise [AGY+17, CYC+12, CCS12, FHHJ08, JEH02, KKS13, LLD11, LLW06, YPI13]. Noise-Based [KKS13]. Noise-Resistant [LLW06]. Nomograms [MMB+19]. Non [AERA14, GAMD10, GXW+18a, GXW+18b, HUPS14, IAS19, JBS+18, KW05, LYL19, MWCE09, Mao96, MHH+13, MYM16, MTB17, NWW17, NHPN14, OSS+17, RJG17, SIT+17, TST+17, TVET14, YW16, YL18, ZBO13, FGS19, JQD+08]. Non- [JBS+18].

Non-Constant [HUPS14]. Non-Contact [IAS19]. Non-Euclidean [KW05]. Non-Experts [TVET14]. Non-Linear [GAMD10, MYM16, NHPN14, SST+17, FGS19]. Non-Mobile [RJG17].

Non-Obtuse [YW16]. Non-Parametric [MWCE09, JQD+08]. Non-Planar [MTB17]. Non-Premixed [YL18]. Non-Rigid [GXW+18a, GXW+18b, LYL19, NWW17, SLS+17]. Non-Skinned [ZBO13]. Non-Spatial [MMH+13, OSS+17].

Non-Visual [AERA14]. Nonlinear [AB01, BN12, De08, HSK17, KBI+18, KK+W+17, RW18, SVAC12, SKMR98]. Nonmanifold [BHS12, HG01]. Nonnegative [CLR13]. Nonparametric [ASE16]. Nonphotorealistic [HCS+07, RE01b]. Nonplanar [IYS13].


Nonuniformity [MS04]. Noodles [SZD+10]. Normal [AWHS16, GQGP17, IWR+18, JWC05, SJM14, WYP+15, WTP+19, YRP18, YPI13, ZCL+19, ZFAT11]. Normalization [BHS15]. Normally [SKS12].

Not-so-Staggering [CDF14]. Note [Ano05a, Ano05b, Be15b, De15a, De15c, De16b, De17b, De18c, Ebe03a, Ebe03b, Ebe04a, Ebe04b, Ebe06a, Ebe06b, Ert07a, Ert07b, Ert07c, Ert08, Ert09a, Ert09b, Ert10a, Ert10b, Ert11b, Flo16, De17a, Hag99, Hag00, HE02, IKT15, Lin11a, Lin11b, Lin12b, Lin12c, Lin12d, Lin13a, Lin13c, Lin13d, Lin14c, Lin14a, Lin14b, Lin16a, Lin13b].

Notice [SGQ16]. Noticeable [NWHWD16]. Notifications [GWP+18]. NotifiVR [GWP+18]. Novel [ARRC11, AS98, CDZ+09, CVC+12, DSF+14, INCB18, JAAL18, JY1+08, KHA12, KK19, LHC10, NZZ06, OHJ+06, PM08, RGK+13, TCTM10, WSM+09, ZBZ+13].

Novice [LKH+16]. Novices [GTS10, GTS11, KPR+14, LB19, YEB18]. NPR [LCC+17]. NPU [PMD+07].

NPU-Based [PMD+07]. Nuclear [DCK+12]. Number [BDJ14, KWDG11, OKSK16]. Numerical [GBP+13, SZD+10, ZMZM15]. NURBS [SF14, KKM+09, KML96, QT96, SF19]. NURBS-Based [SF14].

O [QK04]. O-Buffer [QK04]. Oasis [SGJM18]. Obesity [JAM+14]. Object [DZL+14, FG99, FST+14, KPB16, KYT+18, LLY+13, LVL12, LSH07, LXT18, ORC07, PSG04, PLW11, QCH+14, SJL+18a, SPP+14, SII95, TWC+18, ZK17].

Object-Preserving [LLY+13].

Object-Space [PSG04]. Objective [GO15, GT19, LLG17]. Objects [DGW11, DDKA06, EG03, GT19, KTW113, KDM+16, TAM10, KOC09b, LZW+13, NDS10, PK08, RNK+15, SS09, SPM+13, SH12, SK99, SLA06, WB05, YHI+17, YSO3, YFM01, ZTP05, ZCJH12, ZWC+16, ZX18, ZT99, ZCFL15]. OBL [Ros11]. Obliq [NB95]. Obliq- [NB95].

Oblivious [GSCO07]. obscuring [LSC08]. Observable [MOC+14]. Observation
Oxides
[AMM+08, CS08, Kei00, RLA+13].
origamic [LLLN+14]. Origamizing
[Tac10]. Origin
[AAFW17, GZ14, YDJ+19, ZMT+19].
Origin-Destination
[AAFW17, GZ14, YDJ+19, ZMT+19]. Origko
[SS18]. Orthogonal
[BW08a, BKH+11, KDMW16, YYY16].
Orthographic [LT13]. Orthopedic
[LRF+11]. Orthopedics [DGBW09].
OSPRay [WJA+17]. Other
[RCL+15, ZOC+13, JGH08, LSC08]. Our
[BSSB10, EDK10, RCL+15]. Out-of-Core
[AGL06, HKC+12, LP02, LCP13, USM07, YSGM05]. Outcome [KNKH19].
Outcomes [WG12]. Outdoor
[APV+15, KGAM18, LBD13, LG12, SRK+11, VGKS12, WLT+18b]. Outdoors
[BBBM18]. Outflow [WG12]. Outlier
[NH06]. Outlier-Preserving [NH06].
Outliers [Wil18]. Outline [GUFM15].
Outlines [vGMSW15]. Output
[DN12, FW08, HPC+13, KSDD14].
Output-Coordinator [HPC+13].
Output-Sensitive [DN12, FW08].
Over-Plotting [DWA10]. Overcoming
[MG13]. Overdraw [MG13].
Overestimation [HUP14]. Overlaid
[BSC11]. Overlapped [GPC+17].
Overlapping [AAMH13, SLF+12, VRW13].
Overlay [QWC+09, SFMB12]. Overlays
[KA12, MOC+14, SA19]. Overview
[ADG11, B15M14, CMP09, Chr03, EF10, JF16, LMK07, LBS+19, NM13, TC09b, VGKS12, vdEvW14, DMS+08]. Ovis
[HMZ+14]. Ownership [SSS13, WGR+18].
Oxes [GBM+12].

Pace [FPH19, vdCvW14]. Pacific
[BHTY15, CCH14, DFQ2, HKQ13, LST+16, NSvW11, HVY16]. PacificVis
[BKL18, DW17, MSW19]. Packet
[BWW+12]. Packet-Ray [BWW+12].
Packing
[IYIK04, KW06, KXW+18, YLG+14]. Page
[Ano12p, OAH14, Ano11i, Ano14j]. Pages
[Ano08d]. Paint [Ger17]. Painted
[YCLL08]. Painter [Ger17]. Painterly
[CL06, OH12]. Painting
[Ano14h, Bro07, DKMI13, DiV15, Ger17, KBD+11, KLYE13, KWL14, KISE14, LCC+17, WWS+04, YLK12]. Paintings
[TDM+18]. Pair [ZCL+19]. Paired
[GLH15, HF16]. Pairs [YHH+19].
Pairwise [BMLC19, LBW19, WAG06, YML+17, ZTX13]. Palettes
[PFC18, GLS17]. Palpation [UK12].
Panning [MOC+14, RN19]. Panoramas
[BCR19, PST+15]. Panoramic [RPAC17].
PanoramicData [ZZD14]. Pants [LGQ09].
Paper [Ano12], Ano13p, Ano14o, Ano16p, Ano16q, Ano16u, Ano18i, Ano19g, Ano19i, Ano19k, CKSB14, IIS+17, MFS+09, PDRK19, ZCL09, LLLN+14, Ano13o, CFK12, CLS13b, DLM+12, vHMM+11].
Paper-Based [PDRK19].
Paper-Reference [ZCL09]. PaperCraft3D
[PDRK19]. Papers [Ano16r, Ano17n, Ano18f, Ano18g, CR08, ED08, WBDS11].
Paradigm [DVCD07, RLM10, SKBE17].
Paradox [AW14]. ParaGlide [BSM+13].
Parallax [BCR19, BC18a, LXRY18, MSM+11, PKS+08, SKC+19].
Parallax-Free [MSM+11]. Parallax360
[LXRY18]. Parallel [AD12, BGM+07, BGM+08, BSO+12, BBP08, BVB+11, CL18, CW11, DK10, DK11a, EMP09, ED06, FP+08, GH00, Gor02, GXY12, GBP19, HKC+12, HW09, HSH10, IBJ+14, JFTW07, JF16, JCWD14, KCS+16, KBH06, Lac96, LLB+12, LTL1, LDC96, LTP+05, MB18b, MAWM11, MG09, MFS+09, NR18, NC07, NL11, NH06, PZ12, REB+16, RLS+19, SN12, SKLU+11, VP09, VMCJ10, VHBS16, WZC+15, WLSL17, YXSH13, YX+15, YG+09, ZWZ+13, ZGH+18, ZJX+15, ZHGM11, ZW18, tCMR07].
Parallel-Hardware [JFTW07].
Parallelism
[CGC+11, GPC+17, HBC12, SSIF09].
Parallelized [MS08]. Parameter
[AAM+12, BSM+13, BVP+HR09, BM10, MGH10, OKB+19, PBCR11, SHB+14, TWSM+11, WLSL17, NS+17].
Parameterization
[BF01, GLB+06, HAT+00, KZW12, MGL07, NS+17, NPPZ12, PTC10, WPZ+11, YYS06, YKL+08, ZHGH11].
Parameterizations [HLF18, SAS05].
Parameterized [VABW09]. Parameters
[BTJ+13, EASS+18, JBS+18, KBD+11, LSH07, TKT09, YL16, nGAB16]. Parametric
[ADDG12, CTT+16, DQ07, Elb08, FGF+05, IDAK15, MWCE09, JQD+08].
Parametrization [AG17]. Parcels
[VABW09]. Pareto [HHG14, MLMP18].
Pareto-Optimal [MLMP18]. Pargnostics
[DK10]. Parity [ICW+14]. Part
[Hu16, MBH+12, VB13]. Part-Level
[Hu16b]. Partial [HQ12, TWSS16, Wan11]. Partially [KLC08]. Participating
[WH18, ZC03]. Participation
[Ano08c, Ano12c]. Participatory [VWF09].
Particle [BGB15, BC12, COJ15, CMK15, EGS03, GIK+07, GKM+15, HLO2, HWI95, Har16, IWR+18, KL96, KKK05, LSY+18, LLRR08, LTKF08, LSC08, MWS+08, MNK07, MWK+08, NJB07, RGC+14, SYM14, SM17, SFBP09, STM08, WST07, YEL16, ZGH+18, ZD18, vPVW10].
Particle-Based [COJ15, GIK+07, GKM+15, NJB07, LSC08, MWK+08].
Particle-Particle [LSY+18].
Particle/Flow [STM08]. Particle/Volume
[SYM14, SM17]. Particles
[ATT12, GT14, KSSW09, MKW07, ySKK07, YS03].
Partition [CGL+17, LXR19, MP13, ZK14a].
Partition-Based [MP13]. Partitioned
[FWT+04]. Partitioning
[AT16, BSM+13, MW99, SN97, TDR10, WQZ+18]. Parts
[AAGF18, XYS+16]. Partwise [WPZ+11]. Pass [ASDW14, BTHD11, MPT03, WX13].
Passengers [Chi16]. Passing [BRNB19]. Passive [HSR18, NMN+18, STH13, ZK17].
Past [LMW+17, NJ16]. Patch [GGZ+18, LSS+15, WWC+14, XLND11, ZWS+17].
Patch-Based
[GGZ+18, LSS+15, XLND11, ZWS+17].
Patches [Gor02, HTF97]. Patent
[KBGE11]. Patents [FHMK17]. Path
[AMA11, BMWW18, HWI95, HCCL01, HL09, KM16, SAC+08, TWS05, WBK+08, WG16, ZLB+05]. Path-Preserving
[AMA11, HL09]. Pathline
[COJ15]. Pathlines
[MWSJ14]. Paths
[AMA11, EDK10, LLBS17, LBH11, LWD+17, WOO17, WKW06]. Pathways
[JYC+10, LPP+13]. Patient
[BSKR19, HH+17, KGPS13]. Patient-Centered
[HH+17]. Patient-Specific
[KGPS13]. Patients
[LP+16]. Pattern
[HEWK03, IFM14, MM19, LXR19, WS16, YNM15]. Pattern-Based
[YNM15]. Patterns
[AAFW17, ASW12, BSH+16, BWH08, BEJK12, CYW+16, FPH19, GA+08, GZ11, GCM06, HA06b, HHKE16, JER16, KDA+09, LWD+17, PW13, SMO+13, SCT+10, TTS10, WYY14]. PC
[Ano15]. GU00, KGP+13, KGG+12].
PC-MRI [KGP+13, KGG+12]. PCs
[NNH07, TBR+12]. PDE
[BF01]. PDEs
[DQ07, RL08]. PDF
[SKMH14]. Peacocks
[AMA06]. Peak [KHW+09]. Peaks
[CCL+16]. PeakVizor [CCL+16]. Pearl
[NDM+97]. Pearl-Quality [NDM+97]. Pedestrian
[KLG12, KGAM18]. Pedigree
[TNS10]. PedVis
[TNS10]. Peer
[BGC+11, BFE15]. Peer-to-Peer
[BFE15]. PELs
[XHT+07]. Pelvic [SLK+17a].
PelVis [SLK+17a]. Pen
[WJ+12, ZZD14]. Penalized
[BKS01]. Penalized-Distance
[BKS01]. Penalty
[DRU08, XZB14]. Penalty-Based
[XZB14]. Pendulum
[TLC+10]. Penetration
[KLM04].
Penumbral [DF96]. People [HHH16, LKH+16, OBKP18, RCL+15, TAL+07].
Per-Pixel [MDM10]. Perceived [BEDF16, GMS+07, JSB13, KHSS14].
Perception [BH07, BCS11, BI12, BG07, BSWL12, CWM+09a, EMdSP+15, FIB+14, GLM+17, GCNF13, GTPB19, HTS19, HKR+08, HOT98, HV13, JAO+14, JME10, JHKB19, KSTE06, LH16, LHH16, LML+18, LBBE+14, MRT00, PW12, PLE+18, PBK+12, PIS15, RYKL13, TSA14, TeET14, TYS+18, UHB19, VS11, WKC13, WFC+18, WCG+19, YBW+19, ZK17, ZNXX16, ZHH+19].
Perception-Based [CWM+09a, EMdSP+15, MRT00].
Perception-Driven [WFC+18, ZNXX16, YBW+19].
Perception-True [HV13].
Perceptual-Statistics [STPV12].
Perceptually [BTW14, GH00, LSS13, NSN14, QM08, ZWM13].
Perceptually-Based [ZWM13].
Perceptually-Driven [GH00].
Performance [ADDG12, BAP+17, BBG+18, BBN+19, BC18a, BBTB10, CTGH13, DK11b, GMS19, GGJ+18, HBTG14, KRAM18, KLL12, LBL+12, MZC+16, PBO+14, RAL+17, SSMG13, TAKM06, WXY17, XMM19a, XMR17, vCdW14, GSL14]. Performing [KKM+09]. Perfusion [ODH+07, POM+09, TBB+08].
Peridynamics [HHW18]. Periodic [CLM+07]. Peripheral [JSB13]. Periphery [LBHW18]. Persistence [BEK10, FFFST19, RM17, RKG+11, RML12, RFFL18].
Persistence-Based [RM12]. Persistent [CLMO17, SJ06, WC09, WC10]. Person [TMM+13]. Personal [FDPH17, HTA+15, JHR10, KPV+18, LLL+19a, TBHC16, VBC+16, WBA+14, ZGW+14]. Personality [Per95, SPW07, ZKM18, ZOC+13, UKW19].
Personalization [WGR+18]. Personalized [CTM+13]. Personified [TMM+13].
Perspective [BHST17, DHM13a, HCS+07, LS10, SH00a, SBLK+11, WB08, WCA+17].
Perspectively [HNN13]. Persuading [KV08]. Persuasive [PMN+14].
Perturbation [CA00, LLL+19b].
Perturbation-Driven [LLL+19b].
Perturbations [CRB+05]. Pervasive [GLZR17]. PET [RHR+09]. PET/CT [RHR+09]. Petascale [HBJP12].
PETMiner [HEFR18]. Petrophysical [HEFR18]. Pets [JAM+14]. Phase [GPR+01, GLX17, KBE+18, PSN10, ZC06].
PhenoBlocks [GHC+16].
PhenoLines [GNDV+18].
Phenomena [CMK15, SBHW11, WLMK04].
Phenomenological [MM17].
PhenoStacks [GHC+17].
Phenotype [GHC+16, GCC+17, GNDV+18].
Phone [VARS14].
Photographs [BLIC19, OK15, PKMR15, WRM+10].
Photographic [ASG15, EMRY02].
Photographs [CBLD11, CH03, HCS+07, JDA+11, XZM+17].
Photography [CMF+18, LDN11, MBW+07, TKTN09].
Photometric [PWG17, WLDW11].
Photons [CLS04, JKRK12, JY17, SJ09, SCL08, ZDM13].
Photometry [SCL08].
Photons [LBS+16]. Photorealistic [CORLS96].
Photoreceptor [PY09, RBGD15, ZLG+06].
Photoreconstructor [RD05].
Photorecomposer [LWZ+18].
Photos [CdOKRV09, KCA16].
Phrasing [HHWV09].
Phrasing [OPH+16].
Physical [AN13, BGK11, DBP14, HSR18, JH16].
LB17, MLS18, Qin09, RNE+17, STS+14, TJW+17, VBK17, YQK+17, ZPS04.

Physicalization [LPF+19]. Physically
[BPS+11, CMN13, GHK97, IZM18, JWL05, LXB17, Vis15, WB08]. Physically-Based
[BPS+11, CMN13, GHK97, IZM18, WB08].

Physician [OIR+17]. Physics
[HEG+17, KJ12, LWX+18, QT96, SAM+07, TLC+10, YGV+13]. Physics-Based
[HEG+17, KJ12, LWX+18, QT96, SAM+07, TLC+10, YGV+13]. Physiologically
[MOF09, MOF10]. Physiologically-Based
[MOF10, MOF09]. Physiology
[RD05, XSZ+17]. Pick [WVFH12].

Pictorials [Chi16]. Picture
[PTM+18, WLL+16]. Pictures [ZLY18].

Pictus [IHD+18]. Pif [GPL+13].

PieceStack [WWS+16]. Piecewise
[HTF97, LVRL06, SM11, SZ12, XJF+08, ZWZD15]. Piercings [SZHR11]. Pinhole
[PRA+10]. Pipeline
[BGM+07, BGM+08, CQG+08, GW06, HQK06, LCP+13, LHZ+13, LWP+06, MI+18, SVW98, vLFRI7].

Pipelines
[DWBR06, KZX+14, Koo08, Mor13, SRM19]. Pitch [SJL+18b]. Pituitary
[NWF+05].

Pivoting [BMR+99]. PivotPaths
[DRRD12]. PIWI [YLZ+13]. PiXel
[FIH16, Kei00, KHDO2, MMDO10, PSKNO6, RGE19, RMCW19, WHL16, BPC+10].

Pixel-Accurate [FIH16]. Pixel-Based
[RGE19, BPC+10]. Pixel-Oriented [Kei00].

Pixels [KIS17, XDN11]. PixMix [HB14].

PizzaText [YFZ+18]. Place
[AAM+12, Nie95, NSN14, PBA10].

Placegram [JHR10]. Placement
[BMW17, CCKO7, GWFI14, LAM10, LMG06, OJ15, PSKNO6, PM08, RK17, WBK+08, WLZM10, ZWZ+13].

Placements [HK16]. Placenta [MMK+17].

Placent [MMK+17]. Places
[AAH+13, CDW+16]. Planar
[BJM07, KBH+10, KBH13, LLW15, LYY+16b, MK16, MTB17, MTB18, WGC+08, WS01, ZWC+16, ZCLFL15].

Planar-Faced [ZCLFL15]. Plane
[DHL09, HSCS11, OJ15, SS13a, SBW17, SYR11]. Planetary
[BAB+18, HDJO5, KLJ+09, MKHD05]. Planetary-Scale [KLJ+09]. Planning
[BHWWB07, DGBW09, DBW11, HK16, INCB18, KKMS11, KSI+96, LAM10, LRF+11, MKN+07, MTRP10, OSS+17, SLK+17a, SAC+08, WHK15, JSV+08]. Plans
[LAP19, SST+17]. Plant [LZH+13]. Plasma
[RGC+14]. Plasma-Based
[RGC+14]. Platforms [BTJ+13].

Plausibility
[ASMP17, BAP+17, SNB+17, HWA15]. Play
[BBBC15, KBS13, ZKM18].

PlenoPatch [ZWS+17]. Plenoptic
[ZWS+17]. Plot
[FHSS13, ML13, WHZ+18]. Plots
[ASW12, ED06, FKL10, FBB16, HV13, HTE11, JFSK16, JM10, KNIH19, LT10, MMB+19, MG13, REB+16, RGE19, RW18, RSS14, WLSL17, WH11]. Plotting
[DWA10, TFO09]. Podium [WDC+18].

Poem [MLCM16]. Poemage [MLCM16].

Point
[ABCC+03, APS+14, BHS12, CK10, FFST19, FM12a, GR04, Gué01, HLM10, HPJG08, L06, Lin14f, LDX10, LPG12, LHZ+13, LDW+15, LWC+18, Mal05, MSe+06, MOG11, OHJ+11, OHWS13, PGS04, PSDKN06, PM08, RGFL14, RL08, SHS11b, SRW+16, TCL+13, WLSW08, WSS09, WH18, WAG06, WG16, YNM15, YEI12, ZK06, ZG06, ZCW19, LSC08].

Point-Based
[GR04, HLM10, LGP12, SHS11b, WSS09, WH18, ZG06, RL08, ZK06].

Point-Cloud
[APS+14].

Point-Cloud-Based [LDX10].

Point-feature [LSC08].

Point-to-Polygonal-Mesh [Gué01].

Point-Wise [ZCW19]. Pointing [FKS16].

Points
[BF01, CTT+16, HGWW18, KV03, LBH18, RKG+11, Ste98, TSW+07, YGX+09, ZG12, ZW18, vdEBV16]. Poisson
Polytopes [CSE08, Cse10].
Polyhedral [LHE03, LL05, MHDG11, PCG15, SPB96, Tac10, Wan11].
Polyhedrons [WLSW08].
Polymorphic [NK06].
Polynomial [EG09, HB03].
Polynomials [HW95].
Polyp [HQK06, ZBB+06].
Polytopes [CS08, KLM04].
Pondering [VI18].
pop [LLLN+14].
pop-ups [LLLN+14].
Population [KLG+16].
Populations [CLB13, FLF+11].
Pore [UMW+12].
Porosity [MDG00].
Porous [PC13, WAW18, ZFS+19].
Portable [KCS+16].
Portals [Ano05d].
Portfolio [BNTM16].
Portfolios [MEV+14].
Portraiture [Bro07].
Pose [BWS+19, CZN+11, FCSF17, GSCO07, GCL+18, HBESB11, HV00, IFM14, LIM+12, MUS16, YHH+19].
Pose-Inspired [FCSF17].
Pose-Oblivious [GSCO07].
Pose-Pairs [YHH+19].
PoseShop [CTM+13].
Position [JNC+15, LYL19, LPG15, RP12].
Position-Dependent [LPG15].
Positional [PH11].
Positioning [BMST97, KIS17, TLH10].
Positions [AHRG10, VP09].
Possibilities [LPCC17].
Possible [LG13, LG15].
Post [BSK19, Ano11c].
Post-Operative [BSK19].
Postprocess [MDG00].
Posture [LZLS16, VSS08].
Postures [WHK15].
POT [SJ06].
Potential [BHHM19].
Potentials [JR07].
Powell [EM06].
Power [CBL07, HFMIC12, LS13a, GMG18, PMN+14, WSM+09].
Powered [JPD+18].
PowerSet [AR17].
Practical [BMTD05, CVG13, EVM08, GBHP08, JKJTM06, MBW+07].
Practice [DPW+15, IIC+13].
Practices [AZL+19, HFM16].
Practicing [CLB13].
Pragmatics [HSTD18].
Pre [Ano08d, GAM10].
Pre-Integrated [GAM10].
Pre-Pages [Ano08d].
Preattentive [KK19].
Precepts [AS05].
Precise [EPS+15].
Precision [HBK99, HKB+19, MM+19, PNML08].
Precomputed [BES12, XJF+08, ZDM13].
Predicate [zBBK14].
Predicate-Based [zBBK14].
Predicates [BPM+13, KGP+13, SS06a].
Predict [AERA14, UKW19].
Predictability [BS02].
Predicting [KDM+16, TWB17].
Prediction [BSR+14, CL08, FM12a, HZL+19, HKS18, LYL19, LGL17, LBR+17, MTB18, PFC18, VB13].
Prediction-Based [FM12a].
Predictions [KBL19, LPCRH19].
Predictive [FM06, GBP+13, KPB14, MHR+11, MMT+14, VBV+18].
Predictor [BS95, SFBP09].
Predictor-Corrector [BS95, SFBP09].
Predominance [RCSJ18].
Preface [ALS+17, Ano170, CDF+19, DEF+18, FvHM+10, Hag98, KSTW18].
preferable [GLS17].
Preferences [LLL+19a].
Prefiltered [Cse08, Cse10].
Prefiltering [BN12, RHZ11].
Prefix [CDM+06].
Preintegrated [LS13a].
Premixed [BWP+10, YL18].
Preoperative [BHWB07].
Preparation [WZW+05].
Prepare [RKA+13].
Prerendered [CYB08].
Prescribed [ONL+12, PT17].
Presence [BC18b, SF+16, WGR+18].
Present [NJ16].
Presentation [BGCS17, GJZ+12, KK19, MHS07, TJW+17, WBP+08, vEvW14, vCvW14].
Presenting [HKF16, MYI13].
Preservation [APP11, CJWT05, DS+14, ZZG+12, ZSG+13].
Preserved [Wan08].
Preserving [ATT12, AMA11, ALMF19, BDD+16, BGK06, CWM09b, DK11a,
Radar [ALBR16, HLNW11]. Radial [ALBR16, AAMH13, Bac07, BKH+11, DDB10, DL+09, DLR09, LHLLW10, SG09, WKB+13]. Radiant [CDDS18]. Radiance [ACTM12, GBP07, KGBP05, SS19, SHR+11, XJF+08, YFM01]. Radiative [SZN+18, SKLU+11]. Radio [SRK+11]. Radiofrequency [RKSH11]. Radiographic [SCT06]. Radiometric [GB08b, LCR16, TIK15]. Radiosity [GH00, HKL17, MPT03, NSS14, Sbe97]. RadViz [RSRD516, SGM08]. Rail [MGJH08]. Random [CKLL09, KMKY10, MS18b, PBL10, Sbe97, eYL07, ZZC11, ZWLC19]. Random-Accessible [KMKY10, eYL07]. Randomized [GSCI15]. Range [GK95, LRP97, LCNG14, NSN14, RD05, SLW+10, VAB12, YFM01, YNCP06, ZBG+17]. Ranges [BLIC19]. Rank [GGZ18, LLR18, MLKS18, SS06b]. Rank-Aware [MLKS18]. Rank-by-Feature [SS06b]. Ranked [KLC08]. RankExplorer [SCL+12]. Ranking [HYFC14, KH16, SCL+12, WDC+18, WCD+19]. Rankings [GLG+13]. Rapid [MGJH08, MM08, PMT+19, YEB18]. Rapidly [KHS14]. Rare [LGG18]. Raster [KHP07]. Rasterization [LCPD13, SRK+11]. Rate [KPR+15, Lin14f, SSB+17]. Ratio [FHSW13, TGH12, WWF+19]. Rational [AG17, HTF97, JSG03, PCS+12]. Rational-Quadratic [HTF97]. Rationalization [ZK14b]. Ratios [WWZ+18]. Raw [FH06, LSZ+18, WX17]. Ray [BWW+12, CRPH10, GYK+16, HH10, HBB14, HK99, KHW+09, KKC98, LGM+08, LYS+10, MYM16, MGW10, NKP+15, NO97, NO6, PPL+99, SMP11, SF14, SYK+18, SM97, SN10, SK00, Ste98, TCM+12, WFM+05, WFKH07, WJA+17, WJ08, WWW+19, WLMP19, WSC+95, WKT+17, vAPP+11, AHR+11, ERL+13]. Ray-Casting [HK99, SMP11, vAPP+11]. Ray-Scene [WLMP19]. Ray-Space [GYK+16]. Ray-Tracing [NK06, SK00, Ste98]. Ray-Triangle [HH10]. Raycasting [MHDH07]. Rays [KKMS11]. Raytracing [APW16, GN12, HL09]. RBF [LL14, YLY+12]. RBF-Based [YLY+12]. RC Lens [LGG18]. Reach [HSP18]. Reaching [CK16, SSE15]. Reactive [SRHH16]. Read [OSSK12]. Readability [DFG+14, GFH15, HB08, OSSK12]. Reading [BLE19, KA12, WHP+18]. Real [AL11, BTB+04, BTB10, BTH+13, CLS+12, CDAF18, CMF+18, CK05b, CVC+12, CORL96, CMC06, CDA99, DHL09, GSCI15, GMD13, GWBO12, GB08b, HB14, HLRC+12, HRIS15, HDJ05, IIS14, JKM06, JHBB19, KKS19, KLI12, KMDZ10, LCR16, LAM10, LDSM17, LK09a, LK09b, LK13b, LKR+18, LKS13b, MBR17, MPO10, PMF12, Per95, PKMR15, QYH+18, RGF+04, RJD+07, RJH+16, RYL+18, RKS11, RHD+06, RASS17, RHLW07, SS99, SLM18, SOS+17, SKP07, SN10, SVGR16, SGJM18, SKH+19, SAC+08, SFR+10, SHR+11, SSE15, TCM06, TCL+10, THV+14, VMT06, WR+10, WTV+08, WFW+17, WOO17, WSE07, WXY17, WY19a, XESV97, XYS+16, XCM+19, YML+17, YS03, ZQS11, ZHX+11, ZWW+12, ZDM13, ZX18, drRBS+12, vdzT16, vFWTS08]. Real-Time [AL11, BTB+04, BTB10, BTH+13, CMF+18, CK05b, CORL96, CMC06, CDA99, GSCI15, GMD13, GWBO12, GB08b, HB14, HLRC+12, HRIS15, HDJ05, KKS19, KLI12, KMDZ10, LCR16, LDSM17, LK09a, LK09b, LKR+18, LKS13b, LXT18, MB03, MLKS18, NQX+05, OK15, PSSC17, PD04, PMP10, PKMR15, QYH+18, RGF+04, RJH+16, RYL+18, RKS11, RHD+06, RASS17, RHLW07, SOS+17, SKP07, SN10, SVGR16, SKH+19, SAC+08,
Real-Walking [PFW12]. Real-World
[LAM10, SL18, vFWT08]. Realism
[JDA+11, KSS09, LRM+13].
Realistic [CDR+18, CLZ03, CORLS96, DDKA06, JW05, ZKM18]. Reality
[Ano12e, Ano14d, Ano14e, Ano15c, Ano16d, Ano16e, AS11, BS18, BBC15, Baj13, BBSM18, BDB+16, BSE+17, BZS+13, BAP+17, Bil13, BDH+18, BLO+05, BSSL12, BLRW05, BC18b, CDA18, CLB13, CMPC06, CLS13a, CGB+13, DS17a, DS18a, DJK+06, DH08, DRHK07, EPS+15, FB07, Fuc13, GS08, GLM+17, GKR14, GJK15, Ger17, GWP+18, GLZ17, HK10, HBESB11, HII+18, HSR18, HCP+15, HBOS09, HAGS16, HJLH19, HF10, HF11, HV00, IHD+18, ILMH12, JAM+14, JLS15, KMS09, KJIH+18, KSY16, KSNY17, KOJC12, KBS13, KGAM18, KBB+18, KKL11, KM10, KHSB11, KTW13, KLD+09, KLL12, KYT+18, KV98, LKS+19, LH09, LRM+13, LSCN09, LBS+16, LvL12, LG12, LBKD09, LABS10, LDFZ14, MMT+16, MNZ+15, MUS16, MBZB12, Meh1, MK13c, MKT+18, NNM+18, NQX+05, NJJ11, NTS11, NSS03, NTT+19]. Reality
[OIR+17, OSB+15, PLW12, PLE+18, PTM+18, PIS15, RBK+15, RSBB13, RHJ+16, RWBF18, RPAC17, RBDG15, RJG17, Ros13, STB18, Sat13, Sch13, SH00a, Seq12, SYYC11, SlVF10, SSL08, SL11, SFL+16, SBHW11, SRKL19, SB14, SJK+07, SKE15, TMM+13, TLI1, TGW+95, UKF+18, VGKS12, VBV+18, WRM+10, WLW17, XST+18, YC14, YFZ+18, YON05, YON06, ZK17, ZHF+19, ZHRL14, HWA15]. Realizing [BLO+05]. Realtime
[Dan16, HZL+19]. Rear [RLM10].
Rearrangements [ORRL10]. Reasoning
[CCM12, EFN12, LS10, MDF12, OPH+16, VHI16, WM16]. Reasons [LXC+17].
Recalibration [AN+18, KHS14]. Recall
[BBK+16, HKKS18]. Recalling [SBB+18].
Recirculation [WRT19]. Recognition
[BBK+16, HBESB11]. Recoloring [KOF08].
Recombination [FYF+18]. Recommendations [WMA+16].
Recomposition [LWZ+18]. Reconciliation
[PDW+14]. Reconfigurable
[BSM06, LYY+16a, LPG+18]. Reconstruc
[LLR18]. Reconstructed [RCW+18].
Reconstructing [LGS12, SvdBLM11, WBW+13, WCB+12, YOS13].
Reconstruction [AGDJ10, APS+14, APW16, BF01, BMR+99, BMR01, BK12, BDS+03, CTT+16, Cse08, Cse10, Cse13, Dan16, ERL+13, EM06, EVM08, EDvW19, GCL+18, GXW+18a, GXW+18b, HDDBC15, JR07, KSG+16, KEP08, Kim13, KKSM19, KY06, LJHY14, LZLS16, MY96, MKHD05, MES+11, MGMT14, MCS+08, OKI15, PBL10, PY09, PKMR15, RZNS04, SCT06, SZN+18, SRKL19, SKH+19, SWF+16, SGM+11, WBB+08, WSS09, Wan11, WWC+14, WCW+16, WXY17, WLYD11, XZM17, YYFX18, YHJ+17, YON05, ZG12, ZX18, ZHGL11, ZCFL15]. Recorder [MSM+11].
Records [KCK+19b, LB19]. Recovering
[AFRS05, CC08, LSZ+18, Wan06].
Rectangular [IYIK04]. Rectangle-Packing
[IYIK04]. Rectangular [KHA10, RNL09].
Rectilinear [Mao96, MSHC99, SM06, SK00].
Recurrence [ASW12]. Recurrent
[KCK+19b, SCT+10, SGPR18]. Recursive
[LLMB19]. Redirected
[BHHM19, BSSL19, BLS15, HB13, HBT14, NSE+12, SHV+18, SBJ+10, ZWBH13].
Redirecting [BIPS12]. Reduce [JAM+14].
Reduced
[ATK16, KLLR07, KCT+17, TGSP09].
Reducing
[HKB+19, Ros11, SCL08, vdEHBo16].

Reduction [AHR+11, ED06, ED07, JJ09, KC04, QM08, RD05, SZS+17, SMT13, VT08, WWLM11, WFC+18, WRC+18].

Reductions [DWF+19, SDMT16].

Redundancy [WGS+13].

Reed [DN12, DN13, PSF09, TGSP09, TDN+12, TC17].

Reference [JK16, KSDD14, NB12, SM17, ZCL09].

References [LYK+12].

Referential [LDN11].

Refilming [ZDJ+09].

Refinement [BT13, CDS+12, CDM+04, Fau99, GABJ08, KSH03, WWW+19].

Reflectance [FBLS05, LF97, TIS16, TLQ+08, TAL+17].

Reflecting [TBHC16].

Reflect [IzMA18, NSS14, PSM06, TIS16].

Reflections [CA00, HQ07, SMM12, WXKPM14, WDCS07, WBD14].

Reflective [KWCW13].

Reformation [AMB+13, KBH+10, LCMH09, WGC+08, KST+14].

Refactoring [STYC12].

Refractive [MB17, dRBS+12].

Refractions [HQ07].

Refractive [KTCW13, LSK+18, WH18].

Regard [KBSB13].

Region [YCLJ12].

Regions [YCLJ12].

Registered [HS11, KRHH11].

Register [SPK+07].

Registration [AIS18, BJM07, FYZ+17, HBKSO9, HQ12, HZH14, LG13, LLYG19, MDS16, RNK+15, RWMO9, SM09, TCL+13, XF04, YON05, YON06, ZMG+10].

Registrations [RLNN11].

Regression [DvVH+19, HSK17, KL+16, MP13].

RegressionExplorer [DvVH+19].

Regular [GCT17, HAM11, MES+11, SSS06, vW14].

Regularization [GXM+18b, LDW+15, WFS+16, WOn16, GXM+18a].

Regress [DWvW12, YDC+14].

Reidemeister [ZWZJ12].

Reinforced [BWW+17, FGH+09].

Reinforcing [BW14].

Reinventing [AAMG12].

Relates [ZOC+13].

Relation [CQC+08, NN11a, NN11b, YHW+07, GSL14].

Relation-Aware [CQC+08, NN11a, NN11b].

Relational [KGS+08, PL+14, STH02].

Relations [BMLC19, BN11, C.XD+19, CPC09].

CdORKVO9, HO106, ZCCB13].

Relationship [LDM+18].

Relationships [BCH+13, CWK+07, CC07, GW11, LS09, LPK+13, LBT+18, MAKO8, NR18, SW13, TWC+18].

Relative [MDS16, ZLB+05].

Relativistic [MGW10].

Relativity [WBE+06].

Relaxation [LPQF14, YLSL11].

Relaxing [RG19].

Relevant [AAFG18, W+16].

RelEx [SFMB12].

Reliable [GLM06, HHCL01].

Relief [LWYT12, SRML09, SJM14, WTP+19, YHJ+17, ZZL+15].

Relighting [CBLD11, LDR00, WPC+13].

Relocalization [GGC15, KCH11].

Remapped [HSD18].

Remeshing [MDGG0, PKF+08, WQ07].

Renderer [FSTG16, WMS98].

Renderers [YESK95].

Rendering [ABCO+03, Ano05d, Ano09b, BES12, BSS+13, BGT12, BL96, B19, BMT05, BHW07, BTB10, BTHD11, CR08, CIC05, CBPS06, CWM+09a, CLZ+03, CCB11, CMF+18, CL06, Chr03, CH03, CMW04, CH11, Cse08, DH02, DDA06, EMRY02, EH01, EMP09, EJ05, EIR+14, EBR09, FM07, FM12b, FSW09, FAW10, GW06, GMS+07, GU00, GAM01, GHO05, GQGP17, HR07a, HAAB+18, HCS+07, HI+18, HWKH16, HQS18, HMBG01, HS13, EMP09, EJ05, EIR+14, EBR09, FM07, FM12b, FSW09, FAW10, GW06, GMS+07, GU00, GAM01, GHO05, GQGP17, HR07a, HAAB+18, HCS+07, HI+18, HWKH16, HQS18, HMBG01, HSR13a, HSR13b, HA04, HLY10, HMM14, HK99, HBC12, H907, HC05, HGH+10, IWR+18, IZ18, J09, JVD19, JWC05, JM10, JKY12, KSH03, KV03, KTK18, KK13, KWP01, KWH00, KKH02, KM16,
Representations [GK07, HHH16, HJC14, JV09, JEG12, JDL09, MCK12, WJD17].
Representative [LBR+]17, LPCRH19, TLLH12].
Representativity [PBPP11].
Representing [GHL15, LVRL06, PW13, RSFH14].
Reproducible [RB18].
Reproduction [CK16, IDAK15, LRP97, MK13c].
Request [SSMG13]. Request-Flow [SSMG13].
Requirements [GNCM+16, TGW+95, vLFR17]. Res
ETO+[10]. Resampling [CMF+18, Mao96].
Research
[BSG+09, EGG+12, IIS+17, JF16, KLM*08, KBB+18, Nie96, SDW09, TM04, WOC99].
ZT09]. Resistant [LLV06, YPR17].
Resizing [DZL+14, WLM13]. Resolution
[AL11, AJ19, CWK+07, CAN14, DMAM19, FYTL19, HKB+19, IWR+18, KGS+08, KHZ18, LMK07, LW1+07, PS12, PHF07, SSIF09, SKMH14, TLQ+08, WJ08, WLSL17, WPS+16, WDW16, YBZW14, vAPP*11, BPC+10]. Resolution-Dependent
[TLQ*08]. Resolutions [BLSL17].
Resolving [FWT+04, Kra16]. Resource
[BLS15, DDBR+19, MMT+14, MKN+07].
Resources [KSY14]. Respond [BZS+13].
Response [MZH+08, TWSM+11, WGR+18].
Responsive [Per95]. Restoration
[LMY12]. Restoring [QPNK18]. Restricted
[CVC+12, WLL+12, YBZW14].
Result [BM10]. Result-Driven [BM10].
ResultMaps [CDF09]. Results
[GNSP+14, HOG+12, NZ06, NB12, PHE+18].
RetainVis [KCK+19b]. Retargeting
[DKW+16, KPBL16, LLG17, LLY+13, PPZ+12, PMH18]. Retention
[CB15].
Retexturing [GSPJ08, MTB17].
Rethinking [DWS10]. Reticulum
[MQF06]. Retinal [FZC+07]. Retrieval
[ADP02, CLAL12, EHBA11, HKBE12,


Road-Crossing [BGC+11]. Roadmaps [GSA+09]. Roaming [CMCL+06]. Robots [LPF+19]. Robust [AZM12, CRT04, CL11, FYP10, GWE+19, GXW+18a, GXW+18b, HQ12, JCWD14, KHS+18, KCH11, KC04, LHZ+07, LYLG19, LYY+16b, LDC16, NHY18, PBPP11, RKZZ19, SSI+09, SPP+14, SH12, SZ12, WWZ+18, YRP19, YTO2, ZTP05].

Robustness [BEK10, LB03, SWCR+15, SRW+16]. Robustness-Based [SWCR15]. Rock [Ano14p, JFBB10]. Rod [ZQS+11]. Role [BDH+18, GMD+17, GPK14, SSK+16, YaKSJ07, ZKM18, cKJG+12]. Rolling [BDF16, EDFO8]. Roman [CDW+16].


SchemeLens [CLB+16]. Schemes [Csé08, LRN96, SFBP09, TdJ14, TdJ15, ZTP05].
Schlieren [BPS+11]. Science
[Ano12g, BSI18, BRS18, CGGR18, DJ18, Ert10c, MW13, UMW+12, vW11]. Scientific
[AL06, AB01, BKW16, BW17, FHKM17, HE99, KAM+08, KMDH11, KH13, KCS+16, LDC96, LS16, Mar18, MGKH09, Nie95, NTT+19, OR98, OR99, OSBM14, RBGH14, Rob98, SKK+14, WJA+17, WBP07, WKZL04, YS+10]. Scientists [DLW+17].
Scientists [GKL+13]. Scission [DCK+12]. Scissors [ZWC+15, ZTA12]. Scivis
[CCB+18, GM05, HRD+19, WM13a]. Sculptures [STS+14]. SD [HRN+03]. Seamless [BMY05, FPB17, PWIG18, TS08]. Seamlessness [SLGM09]. Seams [PST+15]. Search
[BBH+17, BK+17, CWT+08, CDF09, GNSP+14, GMD+17, IDA+14, JWC05, KBGE11, LRM+13, LCP+13, LDFZ14, NHB+17, NZ06, NB12, RSBB17, RGP+12, SWL+14]. Search-based [CWT+08]. Searching
[SPP+14, WPS+09]. Seated [KKKT18]. Second [GRT17, HHL97, HVSW11, KH16, SK10, WXK14]. Second-order
[GRT17, HLL97, SK10, WXK14]. Section
[AD12, Ano12g, BvdP12, BDC17, BHTY15, BGK11, BKL18, CCH14, CLS07, CW11, DFQ12, DW17, Ert10c, FB07, GKR14, GJK15, GW13, GMM05, HK10, HVY16, HKQ13, HP04, HLM10, ILMH12, JLS15, KMN04, KRTV06, KS14a, KKL11, KHSB11, KPGL12, KL14b, LS06, LSCN09, LST+16, LBK09, LABS10, MSW19, MH10, MW13, Moo03, MYM08, NSFV11, OA11, Ota17, PZ12, Pur09, Qim09, RvWT05, SK16a, SK15, SGR06, SSL08, SL11, SW17, TL11, VW12, WLW17, WM05, WY19b, vWMT04, vW11]. Sectional
[GGC+17, SKYS14]. Sectioned [DBTH07]. Sections [LB17, SFH06]. Security
[ABC+19, MKN+07, SSG12]. Sediment [UDSL18]. Sedimentation [HV13]. See
[BC18a, DFG+14, DTT+17, GMD+17, GIMS18, GMY11, GLB16, HH+18, HRISI15, IK15, IA16, IAIK16, IHS17, LCR16, LH16, LHH16, LHC10, MIO+15, PIN+15, QPNK18, RHJ+16, SJK+07, WVFH12]. See-through [BC18a, DFG+14, DTT+17, GIMS18, HH+18, HRISI15, IK15, IA16, IAIK16, IHS17, LCR16, LH16, LHH16, LHC10, MIO+15, PIN+15, QPNK18, RHJ+16, SJK+07]. Seed [HA04]. Seeding
[FA15, MJL+13]. Seeing [TAL+07]. Seeking [BEDF16]. Seen
[DBN06, IIS+17, HMTR19]. Segmentation
[AABH+16, AZC+12, BMA+19, BWT+11, DMR04, FZC+07, HRN+03, HNR+06, IVJ12, JBH+09, KSI+96, KW11, LCS06, LY12, MBS+04, MW99, MK09, NHY18, PRH10, PPM+11, SHM10, SF04, TWSM+11, Wan08, XTY+11, ZTA12]. Segmentations
[GJG+15, vLBB16]. Segmented
[CL06, RSOW18]. Seifert [vW06]. Seismic
[PGT+08, YXG+10, PGT+08]. Seivis [HFG+12]. Selecting
[FHSW13, LWW+17, MJ09, WWZ+18]. Selection
[AT16, BAF+13, BTJ+13, CWL12, DMC15, EWWL98, JS06, JSH+19, KBP14, LFA+16, MLMP18, PLC+11b, PBC17, SHV16, TMWS13, THV+14, WGS07a, WSS09, WHZ+18, WVF+19, YEII12, YEII16]. Selections [CvW18, vdEvW14]. Selective
[CDM+04]. Self
[AL11, BPS13, BDH+18, BSWL12, GD01, HDBC15, JNC+15, JAO+14, SKB+18, SG09, SLF+12]. Self-avatar [BPS13, JAO+14]. Self-contact [BDH+18]. Self-generating
SoftAR [PIS15], Softer [GLM+17], Softness [PIS15], Software [CZ11, CAN14, FWL17, GU000, HK10, HA06b, OM09, RLA+13, TC09b, TL11, WLV17], Solid [BDK98, BW01, BKT11, CZZ17a, CMF12, DHM13b, Fau99, HR07a, HR96, HQ04, OHH06, PKS+08, Qin09, SP96, VHL14, YL18, ZH07], Solid-Fluid [VHL14], Solid-State [PKS+08], Solids [LIGF06], Solution [BTC13, EG09, KFS+19, LS07a, LMC02], Solutions [ALBR16, JDSR+18, LSV+18, MS04, NLKH12, PLK12, XYGL13], Solver [CMF12, JFTW07], Solving [DRW16, LM96], some [AL06], SOMFlow [SKB+18], Sonic [MLCM16], SonifEye [RNE+17], Sonification [RNE+17], Sort [LRN96, MAWM11], Sort-First [MAWM11], Sort-Last [LRN96], Sorted [IK95], Sorting [CICS05], Sound [AM13, CSG+19, CLT+08, DRHK07, KMMA14, MRG+15, MYM16, NTS11, OMD+12, RNL09, RE+17, RSM+16, RSR+18, YL18, LCM07], Sounding [YL18], Sounds [NTS11], Soups [PLK12], Source [MYI13, MAWM14], Sources [MBL+06, MAF11, MTB18, SNM16], Space [AJ17, AAB+13, AMA08, BB12, BSM+13, BTY14, BS02, BEJK12, BLB+17, BJ+19, CSMW04, DK10, DSR+14, ERHRF10, FFB18, FSME14, FWT+04, GCML06, GYK+16, GLB16, HAAB+18, HQ13, HPC+13, IWR+18, JH13, JA18, JZLG09, KBD+11, KLO3, KLM04, KLCK17, KSSW09, KDA+09, KW13, LvWJH04, LMZ+14, LSJ06, MWCE09, MJW+13, ME09, MM08, NM13, OKB+19, P3G04, PSTW+17, PZ07, PBCR11, RBN+19, RKG+11, SFA+15, SHS11a, SNH13, SHB+14, SKP07, STYC12, SPK+07, STH13, TH13, TC17, TNS10, VB18, WSY07, WZK12, WM13a, WFG+19, Wen14, WFM+12, ZWZD15, ZHL+09, Ano96b], Space-Based [LvWJH04], Space-Efficient [TNS10], Space-Filling [BB12, Wen14, WFM+12, DSR+14, WFG+19], Space-Frequency [HQ13], Spaced [LMG06, WLZM10, ZG12], Spaces [BFE15, BM10, DNL+06, DRRD12, FWR00, IWSK07, JE13, JS98, MB01, dJNOBM17, PD+14, PCG15, RKG+18, SGJM18, SLF+12, VABW09, YSI+10, vWN04], Span [Ano96b, LSJ96], SparkClouds [LRK10], Sparse [BT13, CTT+16, DDL14, GZL+14, HYZ+12, JvdLR13, KSH03, LBG+16, LK11, SKMH14, WYL+14, WSW16, WLT+18b, YYFX18], Sparse-Sequence [YYFX18], SparseLeap [HAAB+18], Sparsely [CYW+16, CL11], Sparsity [LYLG19], Spatia [BMLC19], Spatia-temporal [BMLC19], Spatial [AMJ+12, AN13, AA11, AAFW17, BJB+12, CJTM05, FTES13, Guo09, HIH+18, HSZ+11, IK15, IHS17, JSB13, KBBV17, LLL+10, MWCR06, MMH+13, MBL+06, MK13c, NO7, dJNOBM17, OSS+17, OP+16, PBN+13, PLE+18, PIS15, RKS1B3, RSBB17, RCW+18, SNM16, SR17, SJ06, Sim07, SWP02, TC13, VH16, VBV+18, WKB+08, WCD+19, YPI13, BDM+17, PSK06], Spatial-Temporal [SPW02], Spatialization [TSW+07], Spatializations [HBM+13, TSD09], Spatialized [JWC05], Spatially [LLL+12, NSF+17, SYYC11, WLH13, WD08], Spatio [BZGV14, BAB+18, CHW+18, FP+13, Lin16b, LXR19, SM17, SQW17, TSI16, WG16, WDC07, WXW+19, vLB+16, DMAM19], Spatio-Angular [BZGV14], Spatio-Temporal [BAB+18, CHW+18, FP+13, Lin16b, LXR19, SM17, SQW17, TSI16, WG16, WXW+19, vLB+16, WDSC07, DMAM19], Spatioangular [RHZN11], Spatiotemporal [BMJK09, BTHD11, CLS+12, CLZ+18, KJJ+18, KDA+09, LKS13b, MRH+10, MTT+14, MLKS18, NXSL13, SdBLM11, WMWL11, WLS+19].
**Speaker** [Ano13t, Ano13u, Bai13, Bla12, Cze12, Fra12, Kas12, Min13, Sat13, Seq12].

**Special** [AD12, Ano12g, BDC17, BHTY15, BGK11, BKL18, BLRW05, CLS07, CW11, DS17a, DS18a, DW17, Ert10c, FBI07, GKR14, G15, GW13, GMM05, HK10, Hg98, HVY16, HKQ13, HP04, HLM10, Jl02, JLS15, KMN04, KRTvW06, KS14a, KKL11, KHSB11, KPL12, KL14b, LS06, LSN09, LST+16, LBKD09, LABS10, MSW19, MH10, MY14, MW13, Moo03, MGW10, MY10, NsvW11, OA11, Ota17, PZ12, Pur09, Qin09, RvWT05, RvWT05, SK16a, SK15, SGR06, SSL08, SL11, SW17, TL11, Var01, VW12, WLW17, WM05, WBE+06, WY19b, vWMT04, vW11, BvdP12, DFQ12, ILMH12].

**Specific** [CCQ+14, KCS+16, KGPS13, RBGH14].

**Specification** [AHSS14, DV95, LBW19, Sel15, SPEB18].

**Specifications** [KWP01, SFMB12].

**Specifying** [SKL+14, SPECT [MSSD+08]].

**Spectral** [ALMF19, BMWM06, NK06, NvdVS00, SK13].

**Spectral/ [NK06].**

**Spectrometry** [EGG+12, RB18].

**Spectrum** [CM09, HHZH17, YNBH11].

**Specular** [CA00, WXKP14].

**Specularities** [MTB17].

**Speculative** [EASD+19, HFM16].

**Speech** [DLN+06, KP05, LMD12, MCP+06, MD12, PZ07].

**Speed** [FC95].

**Speeding** [CMM+97].

**Speeds** [NSN14].

**SPH** [ICS+14, BK17, BKKW19, FAW10, LTKF08, PT17, YML+17].

**Spheres** [CL06, FS04].

**Spherical** [BZGV14, CLCQ12, HFL18, LLIW06, LHLW10, MBT07, NS+17, XJF+08, ZHF+19, vAPP+11].

**SpicyNodes** [DLA+09].

**Spin** [SHV+18].

**Spine** [AS11].

**Spinel** [GFG+14, GFG+14].

**Spines** [CLB11].

**Spiral** [BSV11].

**Splatting** [MG13].

**Spleen** [GDKB17].

**Splicing** [SAB+16].

**Spline** [BDHJ04, CLCQ12, Cse10, Cse13, EM06, HJW99a, HJW99b, KE08, KI13, KH01, LLWQ13, LQLX14, ONL+12, RE01a, RZHB+08, WBH04].

**Splines** [EVM08, LWS97, ME11a, Nis04, RZNS04, WLL+12, XF04, HHQH17].

**Splitting** [ISC07].

**SplitVectors** [ZBG+17].

**Sport** [SJL+18b].

**Spreading** [HTC09, ZCW+14].

**Spreadsheet** [JKM01, SPB08, WS09].

**Spreadsheet-Like** [JKM01].

**Spring** [DBD13, KW05, LSH07, LKT13, SVAC12].

**Springs** [Del08].

**Sprites** [MSE+98, MSHC99, NW10, PSG04, ZPvBG02].

**Squares** [MDS16, MGM14, PLK12, SZ11, WL08, RAL+17].

**Squash** [yKL12].

**Squash-and-Stretch** [yKL12].

**Squish** [SM06].

**SRVis** [WCD+19].

**SSE4** [HH10].

**Stability** [LNL13, ZHZ19].

**Stabilization** [WLHL13, ZHZ19].

**Stack** [JE13, XGM19a].

**Stacked** [BW08c, WWS+16].

**Stacking** [DWA10, TSAA12].

**Stacking-Based** [TSAA12].

**Stackless** [HL09].

**Stacks** [JST+10, SMM12].

**Stage** [GXZ+18, GGZ+18, WCS+18].

**Staggered** [CDF14].

**Staggering** [CDF14].

**Stain** [WLT18a].

**Stained** [Bro06].

**Stall** [CDL+16].

**STAMP** [GCM06].

**Stars** [Ano14p].

**State** [Ano13d].

**State-Based** [AW03].

**Static** [AZ11, FTES13, HLNW11, KISE14, KW19, LMS03, MZ+17, ZDH+19, vRKE17].
Structure-Aware
[BL07, TLD+12, YEII12, WWZ+19].
Structure-Based [CGH+19, FW00, Guo95, HTE11, KPBG13, LMZ+14].
Structure-preserving [CLB11].
Structure-Significant [MZFM98].
Structured [BKM13, BS16, CYB08, DF96, FBP17, GMD+16, MZFHM98, MH07, SZZ+17, TdJ14, TdJ15, TNS10, WHFL14, WZC+15, XA10]. Structures
[BJA+19, BFL06, BW+10, GTH07, GZ11, GSG96, GHP+16,HSVW11, LWS+17, LBLH19, MK16, MQF06, MWC+12, MCS+08, RHD+06, RC06, SP07, SWB+00, SBF+12, TNB11, TGS11, WKZL04, WKB+13, WJR+13, WAWS18, XYC+18, ZWC+16, JQD+08]. Structuring
[MWCE09, VB18]. Student [TRd12].
Studies [AABS12, BBB+19, FWD+17, FIBK17, GS08, aKS12, LAB+12, MHG10, PBO+14, SS00]. Study
[ARRC11, BDJ14, BHZ+18, BSKR19, BARM+12, B05, BvL06, BKH+11, DLPW+15, DLW+17, DJ18, FPV+13, FCL09, GKL+13, GBW17, GFM16, GZL16, HBB14, HKB+19, IHD+18, JCRS09, KPHH12, KG18, KOJL+14, KLG+16, KM16, LKJ+05, LT18, LCS+12, LD11b, MRO+12, MRSS+12, MGP18, NBW14, OM09, PCL+11b, PLE+18, PFK+08, SZB+09, SNLD06, SMM12, TKE16, WBJ16, XRP+12, YHR+19, dLVvL06, SRD16].
Studying [BGC+11, HZM+16, RKS13]. Style
[ARB07, CH03, DFG+14, HA18, KBD+11, LTP+05, MSSH14, MTW+12, TSLR07, ZJX+15, CDK+17]. Style-Aware
[ZJX+15]. Style-Preserving [MSSH14]. Styles
[CCM11, SJM14]. Styling
[KZW+16, WBK+07]. Stylistic [vPBB+10].
Stylization
[HLY18, KISE14, KK17, yKL12, KCI13, LXT18]. Stylized
[CL06, YCLL08]. Sub [WHL16]. Sub-Pixel
[WHL16]. Subdivision [BDHJ04, CMS06, CM10, CWQ+07, KMDZ10, LRZ11, LHY12, MS08, MQV00, NO97, PPT+11, PP09, QMV98, WQS07, ZC06]. Subdivision-Based [LHY12].
Subdivision-Surface [BDHJ04].
Subgraphs [MJ09]. Subgroup [DVH+19]. Subjective [AL06, MIO+15]. Subliminal
[BL15]. Subneighborhoods [FYP10].
Subset [YS17]. Subsets
[GGL+14a, LPK+13]. Subspace [CZZ17b, KJ12, WX17, WM18, YXG+13, YRWG13]. Subspaces [WM18]. Substitope [BL04].
Substrates [SAO6]. Substructures
[HL16b]. Subsurface [AWB11, CCB+18, HFG+12, NSS14, SAM+07]. Subtle
[LDFZ14]. Subtyping [GNDV+18].
Subway [AABS+14]. Success [KHE09].
Suggested [BEDF16]. Suggesting
[ZAM11]. Suggestions [DC17, Koo08].
Suggestive [CGH+19]. Sugiyama [Bac07].
Suite [SM04]. Summaries
[FFB18, TSH+14, WPS+09].
Summarization
[DZL+14, GZX+18, MI13, PKG12]. Summarization-Based [DZL+14].
Summarizing [BFL06]. Summary
[BMW17, CX18]. Summed [XHL18].
Super [CMF+18, RZNS04].
Super-Multiview [CMF+18].
Supercluster [MQF06]. Supercomputing
[EGH+06]. Superconductor [GPP+16].
Supercubes [WD09]. SupereLLipsoid
[JKM06]. SupereLLipsoid-based [JKM06].
Superfluid [GLX+18]. Superimpose
[SSI99]. Superman [PLE+18].
SuperMatching [CCM+13b]. Superpixels
[PZLZ17]. Superquadric [SK10].
Supersymmetric [CCM+13b]. Supervised
[KW11, WFC+18]. Supervision [KEV+18].
Supine [NMGK17, ZMG+10]. Support
[DBD18, DFD+14, HJLH19, Hu16b, HTC09, KWS+14, MTRP10, NHB+17, PMCS11, PTMB09, STM17, SRCP02, SRCP03, SOL+16, TAE+11, TFJ12, WKCB07, WLW+18, WQZ+18, YDC+14, ZCD19].

**Support-Free** [WLW+18, WQZ+18].

**Support-Induced** [Hu16b].

**Supported** [NJJ11, ZHLR14].

**Supporters** [Ano12m].

**Supporting** [Ano11g, HSCW13, HTL13, HMSA08, KSL+17, KPS16, LBS+19, MT14, MGPH06, PSPM15, RAL+17, SVGR16, WPS+09, ZGI+18, vHP09].

**Supports** [BMST97, IDA+14].

**Suppression** [BL15, SFC+07].

**Surfaces** [AT05, ABCO+03, BHW06, BHS12, BWF+10, BEHP04, BBK07, BS16, CGD97, CLCQ12, CFM+13, CRT04, CRH05, DFR00, DBTH07, FT13, FTBTW10, GKT+08, Gor02, GR04, GTLH01, HB03, HDB15C, HGH+10, IFP97, IYS13, JSG03, KCOY03, KLMA10, KSS09, KTCG17, KMDZ10, KGPS13, KGJ09, KLS+18, LvWJH04, LVRL06, LLLF08, LTWH08, LBG+08, LRZM11, LBZ+11, LHZ+04, MQV00, MGKH09, MS18b, MDG00, MKW+08, MTB18, NWHWD16, NPPZ12, NHPN14, PZ11, PYW+16, PLC+11a, PPT+11, PMCS11, QMV98, RBN+19, RZHB+08, RASS17, SM09, SM11, STS10, SN10, STG98, Ta10, TW18, TP12, TC17, USE13, VAW+17, WWB+13, WTW+08, WSS09, WRT19, WB05, WDC08, WT10b, WKI+17, YXSH13, YT02, ZHT07, ZT17, ZDW+15, ZK14b, ZHGH11, vWC06, vFWTS08].

**Surtel** [YYR17].

**Surfing** [BYR17].

**Surgery** [BTB+04, CDA99, HCP+15, KOJC12, LRF+11, NF+15, RFG+04, SSH14, SLK+17a, WZW+09, TGSP19].

**Surgical** [KSS09, KSI+96, MTRP10, SLK+17a, STH13].

**Surprise** [CH17].

**Surveillance** [MI13].

**Survey** [BNPB13b, BN12, C21, CAN14, COCSD03, DLR09, FHKM17, GMS18, Han16, HMM00, HQC+19, JBS06, KH13, MUS16, Mor13, POM+09, RBS+18, SHS11a, S06b, SSG12, TCL+13, WBK+07, DOL03].

**Surveyor** [ADG11].

**SurVis** [BKW16].

**Survival** [MMB+19].

**Surgical** [GRS+19].

**Suturing** [BTB+04].

**Swap** [PDBG18].

**Sweep** [CL18, IMS15, KGPS13, SM07, SYR11].

**Sweeping** [GMD+16, SP96].

**Sweeps** [vRKEE17].

**Sweering** [WSTH07].

**Switching** [GCS19].

**Symmetric** [CSPN11, DWF+19, HLL97, HVSW11, JKM06, PYW+16, RKZZ19, SK10].

**Symmetry** [LJZ12, PZ11, TN11, TN13, TN14].

**Symposium** [AD12, BvdP12, BDC17, HBT15, CW11, Ert10c, GKR14, GJK15, GW13, HK10, HVY16, HKQ13, JLS15, KSI4a, KHS11, KL14b, LST+16, LBK09, LABS10, MH10, MY14, MFS+09, OA11, Ota17, PZ12, SK16a, SK15, SW17, TL11, VW12, WL17, vW11, CCH14, DFQ12, SvW11].

**Synchronization** [HBKS09, LLL06].
Synchronized [KP05]. Synchronous [BE09]. SynCoPation [RSM+16].

Synopsis [CXR18, NXSL13]. Synteny [MMP09, BGM+17]. Synthesis [AS98, BJEYLW01, BB19, CDR+18, CTX+13, DNL+06, DWK+16, FvdPT97, FXG12, FR13, FCSF17, GIS03, HCP+16, HKY+17, KCP08, LPK+12, LHC+16, LFP+07, LBZ+11, LHZ+04, LCS+12, LJWF12, LSS+15, MCP+06, MK13a, MM11, NTS11, RB07, RNE+17, RSM+16, WWYS04, WWY14, XZX+17, YL18, ZLG+06, ZHQ+07, ZSTR07, ZKG07].

Synthesis-Coupled [RSM+16]. Synthesized [YYSZ06]. Synthesizing [MSSH14, VML97]. Synthetic [ALM11, ZLD+14]. System [AK02, AvHK06, BDF+10, CL06, CDW+16, DRHK07, DH02, EGS03, FCZ+15, GCM06, HF06, INCB18, aKS12, KNR17, KKKW05, Lac96, LBS14, LDC96, LRF+11, MGJH08, MY13, MFS+09, NMN+18, NR95, NLKH12, NQX+05, NT99, PKS+08, PWG17, PMD+07, RHJ+16, RBGH14, RNK+15, SST+17, SW13, SWY+17, SvLF10, SYS+06, STH02, TKT09, TMH+10, TIK15, TGW+95, TLM05, WK13, WTL+09, WDW16, WCS+18, ZFA+14, vLFR17].

Systematic [AAGS19, FIBK17, IIC+13, PS06, WCR+18].

Systems [ATK16, BKDE00, BS02, CSL+16, CCQ+14, CLB+16, CFEC17, DRHK07, DNN13, EG09, FWL17, GPK14, GS06, GBC+14, HCK+12, HBC12, MSG+14, MNNK07, NKHC08, NNS03, OWS15, PJ03, PSM12, PFK+08, RK17, SSMG13, SSSG12, Sim07, SBHW11, SLW+10, TYSN06, YNYH06, YFZ+18, YON05, YON06, ZLK+18, vHvdWvW02, vPVvdW10].

T [Ano14f, KSY14]. T-ReX [KSY14].

Table [Ano10f, Ano11k, Ano12n, Ano12o, Ano13s, Ano14q, Ano14r, Ano15o, Ano16s, Ano16t, Ano19j, LRF+11, RBLW07, WLS+18, CLS13a, NSL19]. Tables [BLE19, NSH+18, XHL18]. Tabletop [IFP+12, LH11, MBW+07]. Tabletops [IIS14]. Tabular [GGL+14a, HTL13, PDF14, WCC+18, YEB18, YS17]. TACO [NSH+18]. Tactile [BIA17, YNYH06].

Tactile/Tangible [BIA17]. Tag [LRKC10, RCSJ18]. tagged [CYW+16].


TanGeoMS [TMH+10]. Tangible [BSB+18, BIA17, HF10, HJC14, LPG+18, TMH+10]. Tank [ZFH+19]. Targets [SSE15]. TargetVue [CSL+16]. Task [wAPS14, AG16b, BLIC19, DBP14, GHL18, GPC+17, GLB16, JA18, KKC15, LFP07, LCS+12, LDA12, RKSBS13, RBK+15, TKAM06, BPC+10]. Task-Based [BLIC19, LFP07]. Task-Driven [AG16b]. Task-Overlapped [GPC+17]. Tasks [BM13, CPG+15, ERLW18, FM06, FKS16, GJC+17, aKS12, KPR+14, LTM18, LRM+13, LB17, MCG12, MKT+18, MLS18, OIR+17, PTM+18, RBS+18, SNHS13, VBV+18, WBK+08]. Taste [KIH+18]. Taxi [ADWK17, FPV+13, HZM+16, LWL+17].

Taxonomy [wAPS14, ED07, ET08, KKC15, KOJC12, KCW13, MRSS+12, Rot13].

Taxonomy-Based [MRSS+12]. Taylor [MMMY97]. Teaching [BGM+17, KSI+96, RRJH18]. Team [SJJ+18b, WXW+19]. Teaming [RCL+15].

Teammates [RCL+15]. Technical [Ano10d].

Technical [Ano11d, Ano12h, Ano13j]. Ano13k, Ano13d, Ano13f, Ano14k, Ano14l, Ano14e, Ano14g, Ano14f, Ano16k, Ano16l, Ano16c, Ano16e, Bil13, Ebe17, Hee18, Sch13, Sil17a, Sil17b, Sil18a, Sil18b, Sil19, Yun19].

Technique [ARRC11, Ano05d, BS95, BE06, CLB+16, CM08, HBAB14, HHH16, JS98, KMM+13, PRG+15, RHC+17, WLS+18].
KK19, KSW06, MRS+13, MIO+15, PNML08, SMDS14, SMT13, SKP07, SFR+10, TNS10, WWZ+18, WSM+09, WFM+12, YON05, ZLB+05, ZZG+12, vFTWS08. [Techniques  
[AB01, BW03, BF01, BJM07, BL07, BMI05, BPS+11, CFEC17, DDGL07, DRMM13, EF10, FWL17, JBS06, JCRS09, Kas12, KZL07, Kei00, KCW13, MCG12, MJ09, NT03, PJO3, PFW09, RBS+18, SPCIJ06, SDMT16, SBJ+10, SKL+14, SOK+16a, SOK+16b, VGKS12, WB16, WEE03, YEH12, ZWBH13, JSV+08. Technology  
[WXZ TelCoVis  
WWZ DGBW09, FA15, HLL97, HVSW11, KJM06, KWH00, KW06, PYW+16, PLC+11a, RBN+19, RKKZ19, RC06, SS08, STS10, SGM+11, TKW08, WL16, WKB+13, WXC+08, YRP18, ZDL03, ZHT07, ZYLL09, ZSL+16, ZPP05. TensorFlow [WSW+18.  
Tensors [AS98, GRT17, OJL12, SK10].  
Terrain [BKRE19, BS16, CE01, CCB+18, GH95, KLTG17, LHB19, NJO9, THJ99, VCL+07, WFKH07, ZG06, ZCW19.  
Tetrahedral [SCT06. Tetrahedral  
BLW14, CDM+04, GW06, GH95, KLTG17, LHB19, NJO9, THJ99, VCL+07, WFKH07, ZG06, ZCW19.  
Tetrahedralization [MAL05. Text  
AMJ+12, BLE19, CSL+10, CLC+15, CG08, CLT+11, CLW14, DFG+14, DYW+13, FPB17, FB16, GUFM15, GBWI17, HKBE12, KJW+14, LB19, LYW+16, PKL+18, SOK+16a, SOK+16b, SBC19, XLZ+19, YFZ+18, vHW09.  
Texts [BW17. TextTile [FPB17.  
Textural [HLY18. Texture  
BW08a, BJELYW01, BM01, BBK07, CJR07, CR08, CDR+18, DT10, DKW+16, EWWL98, FST+14, GIS03, GO15, GK95, HAT+00, HPC+13, HDJ05, IFP97, DWJ+14, KSNY17, KHSI04, KBH13, LLLP19, LYY08, LGY19, LHZ+04, LJWF12, MX15, PS12, RB07, SLW+10, WWYS04, WEE03, WSE07, WDC08, YNBH11, YLY+12, ZDW+05, ZKK02. Texture-Aware [DKW+16.  
Texture-Based  
HPC+13, WEE03, WSE07, CJR07, CR08.  
Texture-Mapped [PS12. Textured  
APS+14, IYS13, UBH19. Textureless  
SPP+14. Textures [BS16, HE99, HLM14,
Tight-Fitting KXW [KZW 102x132]

Thematic [SC15]. Those [LLKN17]. Their [NE04, SLB04, FZC10, HRD10, ELF13, GLB04].

Thaumatrope [SC15]. Theatres [LLKN17]. Their [HQ13, MSwG+11, OHJ+11, YLZ+13, BOZ+14, BLG+16, FNM13, PFP+11].

Thematic [CH17, HHWN02, VJN+15]. Theme [Nie95, Nie96]. ThemeDelta [GJG+15]. ThemeRiver [HHWN02].

Theoretic [CGJM19, XLS10, CJ10]. Theoretical [BTS+18, CFEC17, LNS08].

Theory [BEJK12, DPW+15, Kei00, LLT04, MY96, NBM19, SJL+18a, STS10, SZHR11, TTR10, VFR13, ZWJ12]. Therapy [MBB+19, ZZSS10]. There [WWZ+18].

Thermal [KJH+18, SGAS16]. ThermalPlot [SGAS16]. Thermo [IAS19].

Thermo-Visual [IAS19]. Thermoforming [ZT17]. Thickness [GLH+14, LGV+16].

Thin [ELF13, GLB+06, GGP17, HNR+06, SH12, VAW+17, WKZL04, YNYH06, ZQS11].

Thin-Shell [GLB+06, QZS11]. Thinker [RKKF19]. Thinking [WCR+11]. Thimming [IYK01].

Third [Kas12]. Thomas [EDK10]. Those [RJD+07]. Thousands [WLM19].

Thread [MMKY06, WKZL04]. Thread-like [MMKY06]. Threading [PTMB09]. Threat [PDBG18]. Threats [MKN+07]. Three [ADP02, BSL+14, CCAL12, EHS13, FZC+07, GNP+06, GNHP07, HEWK03, HRN+06, HRD+19, MBS+04, NE04, RSFH14, SLB04].

Three-Dimensional [ADP02, BSL+14, CCAL12, EHS13, GNP+06, HEWK03, HNR+06, MBS+04, NE04, SLB04, FZC+07, GNHP07].

Threshold [SHV+18, TWBBM17]. Thresholds [SBJ+10, ZLK18].

Thumbnail [WSYM17]. Thumbnails [YDK+18]. Thumbsticks [YFZ+18]. tightly [BJM07]. Tick [TLH10]. Tight [KZW+16].

Tight-Fitting [KZW+16]. Tile [HDJ05, NC07]. Tile-based [NC07]. Tileable [LPF+07]. Tiled [BI12, ETO+10, LSJ+15, HNH07, RLM10, SM11, tCMR07, ETO+10]. Tiles [HCP+16].

Tiling [LLLLF08]. Time [AL11, AMM+08, Ano14h, ASMP17, BSH+16, BGT12, BRT12, BTB+04, BGM+07, BGM+08, BLLS17, BAF+13, BTB10, BTZ+13, BLIC19, BJC+19, CLS+12, CKW+12, CMF+18, CLC+15, CK05b, CORL96, CMP06, CDA99, CSWP18, CMP14, DAW13, DS16b, FWSL12, FKRW17, FSHH12, GKT+08, GSS+15, GSCI15, GMD13, GSL+17, GTBP19, GABJ08, GSDJ04, GWBO12, GB08b, GW11, GWP+16, GGPSS13, GT17, GHP+16, HMTR19, HKF16, Har16, HE06, HB14, HLR+12, HRIS15, HDJ05, IBJ+14, JEG12, JME01, JS06, JY17, KRHH11, KL96, KLK+09, Kin10, KC14, KKS19, KLL12, KMDZ10, KG09, KGG+12, KDA+09, KBK11, KG06, LG+16, LCR16, LSD17, LS02, LKC09a, LK09b, LS09, LKR+18, LKS13b, LXT18, LMC02, MB03, MGMP18, MLKS18, MDL+19, MT01, NW17, NQX+05, NSH+18, OBJ16, OKI15, PSSC17, PD04, PMP10, PS17, Per95, PKMR15].

Time [QYH+18, RGF+04, RHJ+16, RS12, RYL+18, RKSH11, RLA+13, RHD+06, RASS17, RBLW07, SBV+11, SBS16, SOS+17, SK16b, SKP07, SK98, SCL+12, SYK+18, SN10, SKU+12, SJH+07, SVGR16, SB06, SGAS16, SSM19, SKH+19, SAC+08, SSR+07, SHR+11, SH06b, TIW+19, TCM06, TWHS05, TWBBM17, TLC+10, THV+14, USE13, VMT06, WRM+10, WFKH07, WBJ16, WYM08, WTW+08, WC09, WC10, WFW+17, WHZ+18, WCJ06, WSE07, WXY17, WSO6b, WS09, WY19a, XEVS97, XCH+14, YML+17, YLK12, QZS11, ZHX+11, ZWW+12, ZDM13, XZ18, ZCPB11, cKJG+12, drBS+12, vdZCT16, CJR07, FSME14, GCM06, KBD+11, KW13, SFA+15, WSY07, XEZ+19].

Time-Dependent

[80]
[GKT+08, HMTR19, KRHH11, KL96, KGG+12, SBV+11, TWH05, USE13].

**Time-Discrete** [RS12]. **Time-Domain** [LS02]. **Time-Hierarchical** [FKRW17].

**Time-Orientation** [AMM+08, RLA+13]. **Time-Series** [GSL+17, KLK+09, KBB11, SGA16, WBJ16, XCH+14, ZCPB11].

**Time-Varying** [Ano14b, BRT12, BLLS17, CKV+12, CLC+15, CMP14, FWSL12, GABJ08, GSDJ04, GW11, GWP+16, Har16, HE06, JEG12, JS06, JY17, KJG09, KG06, LS09, LMC02, OBJ16, PSLR17, SK16b, SK98, SB06, SSR+07, SH00b, TW+19, WFKH07, WYM08, WC09, WC10, WCJ06, YLK12, DS16b, KC14, NSW+17, KBD+11, CJR07].

**Time-Bench** [RLA+13]. **Timeline** [LZW+13]. **TimeLineCurator** [FBM16].

**TimeLines** [BLB+17, FBM16]. **TimeNotes** [WBJ16]. **Timepoint** [BBP08]. **Times** [CDW+16]. **TimeSeer** [DAW13].

**TimeSpan** [LPK+16]. **Tissue** [HCP+15, SWB+00, SAM+07, TYL+18].

**Tissues** [CDA99]. **Title** [Ano12p, Ano11i, Ano14j]. **TOD** [GPC+17].

**TOD-Tree** [GPC+17]. **Together** [BRNB19, ZCJH12]. **Tokens** [HJJC14].

**Toleranced** [GUe99]. **Tomography** [AHR+11, WAG+12]. **Tone** [BKA+11, FYWY16, LRP07, SJB10].

**Tone-Mapped** [FYWY16]. **Tone-Mapping** [BKA+11]. **Tongue** [YGV+13]. **Tool** [BISM14, CXM19, CRJ06, CGB+13, FPB17, HEP18, IDA+14, KG+08, LLD+19b, MLMF12, MHD+18, MAAB+18, NHY18, PBO+14, SZD+10, SD12, SKW+11, SGRP18, SG+19, UKF+18, YYT16, WOCH09].

**Tool-Hand** [CGB+13]. **ToolKit** [TFL+18, BDK98, BH09, CPW+15, HA17, SLC+19, MTRP10]. **Tools** [BCB10, BDFM17, BYB+13, FHO6, HKBR+14, NJ99, RBS+18, SPS06, SH12].

**Top** [LS10, LFR03, SOR+09]. **Top-Down** [LFR03, LS10]. **Topic** [AG16b, CLRP13, DYW+13, EASS+18, EASD+19, GJG+15, GNDV+18, KKP+17, LWLM18, SWL+14b, XWW+13].

**TopicLens** [KKP+17]. **TopicPanorama** [WLL+16]. **Topics** [CLT+11, CLWW14, WLL+16]. **TopKube** [MLKS18]. **TopoAngler** [BDSS18].

**Topographic** [CDM+06]. **TopoLayout** [AMA07].

**Topological** [AMA07, AJ19, BEHP04, CLB11, DFD+14, DCK+12, GKN05, GJR+14, GNP+06, KCA16, MBS+04, OHWS13, RML12, RFLL18, SJJ+17, STS07, SDHH12, SPCL06, TL07, TWH05, TP12, TKW08, TGS11, UMW+12, WBP07, ZPP05].

**Topologically** [FA15, GDN+07, SS13b]. **Topologically-Informed** [FA15].

**Topologies** [RE14]. **Topology** [AHK+17, BDDS18, BDD+16, WBT+11, CL11, ESV09, ENS+12, HLV09, HLL97, LLT04, LBG+08, LWJH08, LFR03, MLCM16, MKW07, OHJ+11, PBC17, RLH11, RKZZ19, SKMR98, SPN+16, SB06, TN11, TFL+18, USE13, WXJD17, WDC+07, WJE01, WLZM10, WDW16, ZCO6, JZH07].

**Topology-Aware** [WLZM10].

**Topology-Based** [BDSS18, WBT+11].

**Topology-Controlled** [WDC+07].

**Topology-Preserving** [BDD+16, WXJD17, WJE01]. **TORNADO** [TT05]. **Toroidal** [SCT+10]. **Torso** [SMTT+17]. **Total** [ZWZD15]. **Touch** [LODI16, LRF+11, WLJ+12, XST+18, YSI+10, ZDD14]. **Tourism** [NM13].

**Tourism-Inspired** [NM13]. **Tourism** [TSLR07]. **Tourism-Style** [TSLR07].

**TPFlow** [LXR19]. **Traced** [WHL16]. **Traceless** [JKM06]. **Traceroutes** [CDDS18]. **Traces** [AAM+12, IBJ+14].

**Tracing** [BBW+12, CLS+12, CLT+08, COJ15, GWE+19, IRH01, KL96, MAST16, MYM16, MGW10, NKP+15, NO97, NK06, PPL+99, QCH+14, SYK+18, SN10, SK00, ST98, TCM+12, UKF+18, WFM+05, 81.
WFKH07, WJA+17, WWW+19, WSC+95, ZGH+18, LCM07. Track
[DHNN13, NTT+19, OKB+19]. Trackballs
[HSK04]. Tracked [HWHK16, OIR+17].
Tracker [KDH+12]. Tracking
[AAABH+16, AJ17, BDF16, BWS+19, BVPtHR09, BWP+10, BC12, BKH+11, CDF14, CMN13, CMPC06, DH08, DS16b, GL17, GPP+16, GXW+18a, GXW+18b, GLB16, IDA+14, JER16, JA18, KW13, KHI+16, KHSW17, LH09, LKC09b, LG12, LW+13, MWC+12, MVN+19, NBW14, OK15, PLW11, PLW12, PSR17, PKMR15, RKS13, RKK16, SGQ16, SYM14, SPP+14, SW97, TNT17, THV+14, VMN+19, WRM+10, Wu16, YNM15, CJK07].
Tracks [LPCRH19]. Tract [EBB+15].
Tractography [PFK07]. Tracts
[JDL09, MSET+06]. Trade
[HKB+19, RPH08, WLS+19]. Trade-off
[HKB+19]. Traditional
[BKH+11, CB15, Ch16]. Traffic
[AAAF18, CDR+18, LLB+12, MV06, MKN+07, SHVV16, SvdBLM11, WZvdW13, WYL+14, WSSL12]. Trail
[HEF+14, HPNT18]. Trainable [OK11].
Training
[AGN+19, BBG+18, BC18b, CPG+15, DRHK07, FTES13, GS16, HKBE12, JPD+18, LLQ+17, LSC+18, MTRP10, MLS18, RBK+15, RSBB17, SSH14, SB14].
Traits [FDC+18, UKW19]. Trajectories
[ADWK+17, AAFG18, COMP13, DHR+19, HTC09, HRD+19, JM10, LWL+17, NBW14, SWvdW+11, VJN+15].
Trajectory
[AdLH13, GZM+16, KJW+18, LLL06, MI13, SYM14, TSSA12, WZvdW13, WYL+14].
Trajectory-Based [SYM14].
Trajectory-Preserving [LLL06].
TrajGraph [HZM+16]. Transaction
[KHDL07, LSS09]. Transactions
[Ano14c, Ano14f, Ano15a, Ano16f, Ano16a, Ano17e, Ano18a, Ano18b, Ano19a, Ano19e, KHE09, XCH+14]. TransCAIP [KTNT09].
Transcatheter [BSR+14]. TransCut
[LSR+13]. Transfer
[ACT12, ADDG12, CR08, CPG+15, CM08, CM11, EMRY02, KKH02, LWS+17, LLL+12, LLL+10, LLY06, ME18, MWCE09, MJW+13, MLS18, NHNP14, RSBB17, SKK06, SG09, Se15, SHR+11, WZK12, WQ07, XJF+08, ZGI+18, ZT09].
Transferring [PZ07]. Transfers [KHSS14].
Transfinite [SFA+15]. Transform [FM07, HCMTH15, LS13b, SPB96, SCYW16, ES05].
Transformation
[AAB+13, FE17, HLCB18, LCP+13, LLYG19, LDW+15, PSKN06, WZ08]. Transformations
[DS+09, LL05, MPK+13, YHY08].
Transforming [DW14, WSSL12].
Transforms [SK00]. TransGraph [GW11].
Transition
[AW03, GW11, MS18a, PV06, vHvdW+W02].
Transitional [JCG08]. Transitions
[BFPP+09, BBG+09, CDF14, HR07b, WASQ18].
Transitive [KL03]. Translating [NW15].
Translation [ZL+18]. Translucent
[KSTE06, LSR+13, NSS14, WLLC15].
Transmission [OHH06, YS03].
Transmissive [IHS17]. Transonic
[CDL+16, DCH+17]. Transparency
[BCS11, BS11, CFM+13, CWM+09a, ESLL11, HC05, MM17, SC15, Zha14].
Transparent [DK13, GQG17, IFP97].
Transparencies [NH17].
Trans-post [BB+09, DT10, FT09, HOG13, DSC+16, SPS06, SZN+18, SKLU+11, ZSG+13].
Transverse
[DK13, GQG17, IFP97].
Translating [NH17].
Transport
[BB09, DT10, FT09, HOG13, DSC+16, SPS06, SZN+18, SKLU+11, ZSG+13].
Transportation
[PGSF16, ZFA+14].
Transport [OH106]. Travel
[SFR+10, ZLB+05]. Traversal
[GI+07, HL09]. Traversing [ZBM06].
Treatment
[JDR+18, ZCD19].
Tree
[BHP+12, BKH+11, CBLD11, GZ11, GPC+17, HSP+06, IPD+07, IC07, LPP+06, LXL+18, QYH+18, TSLR07, TdJ14, TdJ15, WXJD17, WV08, XYS+16, YRWG13, ZGH+18, ZT09, NSL19, TdJ14]. Tree-Pests
Tree-Structured [TdJ14, TdJ15]. TreeLike [MK16].

Treemaps [BL07, GSWD18, KHA10, KW19, SSV18, TC13, TS07, TS08, VvWvdL06, WD08].

TreeNetViz [GZ11]. TreePlus [LPP+06].

TreePOD [MLMP18]. Trees [AMA06, BSV11, CMM+97, DN13, EG09, FDC+18, G07, HSCS11, KW19, MSvG+11, MLMP18, PFP+11, SN97, TF09, WFM+05, XXM19a, ZLD+14, TGSP09].

TreeVersity2 [GGPPS13]. Trenches [SMM12].

Trend-Centric [SKK+14]. Trending [WOO17].

Trends [AAFW17, BJC+19, KNKH19, KBB+18, LRKC10, MOC+14, OBJ16, WHZ+18].

Tri-modal [DDBR+19].

Triangle [AFRS05, GHJ+98, HH10, HHQH17, LXB17, LGLR14, MSE+06, Ros99, VP04b, WZW+05, YPI13, eYL07].

Triangles [Far12, ZK12]. Triangular [CCS12, De08, G396, HTF97, LFR03, Sti98, VCP08].

Triangulated [BG04, BEHP04, GH95, WDC08].

Triangulation [FHSW13, GCT17, MS18b, QCT13, YSS+12].

Triangulation-Invariant [YSS+12].

Triangulations [HB03]. Tricubic [KCOY03].

Triangular [AS08, CM10, HTF97].

Trimmed [Sti98]. Trimming [HR07a, SF19].

Trips [FPV+13]. Trivariate [RE01a, WLL+12].

Tropical [LCPRH19]. True [HV13].

Trumps [SOR+09]. Truncated [NDS10].

Trust [DLW+17, SSK+16].

Truthful [MK13c]. Truths [LB17].

Tugging [LS97]. Tuner [HRS13b]. Try-On [HRS13b].

tSNE [PLvdM+17]. Tubes [STM08].

Tuboids [PFK07]. Tubular [AH11, SMG+13, WKB+13].


Turbine [SOL+13].

Turbulent [KLYSK12, LPQF14, TBR+12].

Turnaround [NB95].

Tweet [TKE]+16. Two [CF10, GLX17, GGD+18, HMBG01, JDL12, KBE+18, KRHH11, KBH13, KPS08, LVRH07, LTF08, MPT03, PS10, VHL14, WHK15, ZC06, HSKIH07].

Two-Character [KCP08].

Two-Dimensional [JDL12, KRHH11].

Two-Level [HMBG01, LVRH07].

Two-Manifold [KBH13]. Two-Pass [MPT03]. Two-Phase [GLX17, KBE+18, PS10, ZC06].

Two-Stage [GGZ+18].

Two-Way [LTF08, VH11].

Type [LBH14, MS18a, ZCD19].

Typed [BC18b, RESC16].

Typographic [AMJ+12].

Typology [BM13, ERLW18].

Ubiquitous [BFE15, BM+19].

Ugly [BTS+18].

Ultra [F316, KWDG11, YDG+16].

Ultrasonic [PH07].

Ultrasound [HQS18, WKSS05, zBBKN14].

Unambiguous [BRH+17].

Unaugmented [LBHW18].

Uncalibrated [SM09, WLDW11].

Uncertain [AJ19, FKLT10, GHP+16, LCP+13].

Uncertainty [AE13, ASE16, BBIF12, CZC+15, FBW16, GSWD18, GDD+13, G04, GBFM16, GHL15, HLW11, HKKS18, HQL+19, LFLH07, LLZ+16, LBR+17, LLPY07, MRO+12].
PH11, PRH10, RWG+12, SHM10, SSK+16, SzB+09, SZD+10, SKS12, SDW11, SPB08, TK14, TVET14, WMK13, WPL96, WYM12.

Uncertainty-Aware
[CZC+15, LLZ+16, PRH10]. Uncluttered
[WJR+13]. Uncluttering [FT09].

Unconstrained [THV+14]. Uncover [GdBG12]. Uncovering [DBB10].

Underestimation [HUPS14].

Underexposed [ZNX16]. Understand
[GGZL16, LLB+12, LWD+17, WGGY18, WGSY19]. Understanding [AAB+13, BCH+13, BZS+13, CLT+11, DSC+08, FLF+11, GWF+16, HDR+13, KTC+19, LB+06, LXC+17, LDM+18, LBE+14, LODI16, MRH+10, MGJ+10, MQB19, NXW+16, UDLS18, VFR13, WLJ+12, WKCB07, WWS+16, YAKS07, ZLC+19].

Unfamiliar [LKH+16]. Unicube
[HWL+11]. Unified [CM16, DVCD07, GLX17, KYK11, MFS+09, RDB+12, Sil95, TMWS13, WWS+18, ZFS19].

Uniform [BTV14, LLKN17, NO97, ONL+12, Zhu05].

Union [DN13]. Unit [MGJ+10, PDFE18]. Units [MB19, tCMR08]. Universal
[vdZCT16]. Universe
[FH07, GB08a, MOC+14]. Unobstructed [CGB+13]. Unsteady
[BS95, BMLC19, CF95, FPH+08, GZL+14, GHP+16, HLNW11, HLGL+14, JEH02, LM05, NTT+19, SWCR15, WSTH07, WSE07, WGS07b].

Unstructured [CICS05, CBPS06, CDM+04, CMSW04, CHM11, FBP17, FMB16, GJ10, Har16, KM96, MKJ06, MEB+14, MHDOH7, RL08, USM96, USM97, WMS98].

Unsupervised [KEV+18]. UnTangle
[CLG16]. Untangling [DWVW12, RD10].

Untapped [HFM16]. Untrained
[KNH19]. Unwarrapable [FWZQ13].

Upper [MZH+08]. Ups [VB18, LLN+14]. Upsampling [YGFX19]. UpSet
[LSG+14]. Urban
[CKW+07, CHW+18, DZMQ16, DFD+14, FPV+13, HZM+16, MRL+17, MPBM+18, OSS+17, PY09, QWC+09, SZY+18, SWF+16, VABW09, WXZ+16].

Usability [GS08, KWL14, KLD+09, Sim07].

Usage [SK+16a, SOK+16b]. Use
[BPV+07, CFEC17, DPW+15, HCJ14, aKS12, LMK07, PGS+13, RB11, TJW+17, ZW08, WKB+13]. Used [RZP12, WCR+11].

Usefulness [KPR+14]. User
[BHHM19, BHST17, BTH+13, BLO+05, BGR06, CSL+16, CME+13, DCM+17, DLF+09, EASD+19, FC09, FM06, GS08, GJ+13, GBFM16, HF10, HBF+12, JF09, KKKT18, KGAM18, KJ+15, LKD19, LKS+19, LWQ17, LA+11, GYGI12, LCS+12, MFZ+14, NBM19, PLvdM+17, PSM12, PBK+12, PBC17, RGFL14, RL10, SKK06, SZB+09, SSO6b, SM17, FSP14, XRP+12, YEH16, YCHZ12, ZG+17, vHR08, GSL14].

User-Assisted [LA+11]. User-Author[ed]
[ZGB+17]. User-Based [GS08].

User-Centered [GDJ+13]. User-defined
[JH09]. User-Driven [CLRP13, SPG14].

User-Generated [DLF+09, vHR08].

User-Guided [BTH+13, MFZ+17].

User-Perspective [BHST+17].

User-Stearable [EASD+19]. Users
[BOZ+14, FTE13, GMD+17, HGWW18, LKD19, PPP12, SGQ16]. Uses [Sat13].

Using
[AJDL08, AMJ+12, AZM12, AHD+17, Ano96b, ASMP17, AWB11, AER14, AHL+13, BHHM19, BA05, BSS+13, BBC15, BB09, BDF16, BJEYLW01, BT13, BBD+11, BSE+17, BSKR19, BWC04, BJM7, BJ+12, BW+17, BSO+12, BARM+12, BPM+13, BWT+11, BMP08, BC12, BDW+08, CCG+11, CGD97, CVW18, CPW+18, CDR+18, CML+07, CDS+12, CCM+13b, CVG13, CL06, CMM+97, CML+12, CMM12, CRB+05, DKL11a, DHL09, DSW16, DL+14, DWB+06, DFD+14, DYW+13, DTT+17, DKM06a, EG09, EJR+14, FSHE12, FC95, FGF+05, FT09, FG99, FST96, GSA+09, GMD13, GdBG12, GLM06,
MNV+19, NJ99, OBJ16, PSR17, RBDG15, SK16b, SK98, SB06, SSRR+07, SH00b, TIW+19, WFKH07, WYM08, WC09, WC10, WCJ06, WS06b, YLK12, CJR07, DS16b, KC14, NSW+17. VASA [KZX+14].

Vascular [KOC14, KGPS13, RHD+06, WJR+13, JQD+08]. VAST

[Anol2g, Er10c, MW13, vW11, Ano16u, Ano18h, Ano18i, Ano18j, Ano19k]. VAUD [CHW+18]. VDR [YSGM05]. VDVR [ZX10]. Vector

[AJDL08, BW08a, CML+07, CMLZ08, CKW+12, CM02, CLB+16, DANS10, DPR00, DNP07, ES05, FBW16, FLC09, GPR+01, GKT+08, Hau97, HEW03, HA04, HE06, HLD+08, LKJ+05, LJ04, LVRL06, LCS06, LTWH08, LHFY12, LFR03, MBS+04, MCHM10, MK13b, N399, NLS11, PGL+12, RLH11, RT12, SMK98, SB04, SLB04, SWCR15, SWR+16, SBW17, SZ12, SS13b, TWH505, USE13, WASQ18, WT10a, WJE01, WGS07b, WPL96, ZBC+17]. Vector-Based [CLB+16]. Vectorial [IHR01]. Vectorization [YCH+16, YHL+17]. Vectorized [HXX+15, SG08]. Vectorizing [ZCZ+09]. VectorLens [DMC15]. Vectors [BH04, FPH+08, JCDW14, ONL+12, VP09]. VEEVVIE [PGK16]. Vega

[SRH16, SMWH17]. Vega-Lite


[HWW18, LDC96, PBO+14, SR17, YLX+12]. Version [CMFL16]. Versus

[Chi16, HSI07, DFG+14, GLM+17, KTY+18, PTM+18]. Vertex

[CM02, KXX+18, LY06]. Vertically [SM11]. Vertices [FPH+08]. Very

[IV11, KPR+15]. Vessel [AMB+13, LLL+12, MVB+17, RHR+09, JQD+08]. VGTC

[Anol2h, Anol13, Anol3k, Anol3c, Anol3d, Ano13f, Ano16c, Ano16h, Ano16d, Ano16e, Meh17, Sil17a, Sil17b, Sil18a, Sil18b, Sil19]. Via

[GQM+18, ADDG12, BYA15, BMS17, BDD+16, BM17, BSV11, BSHS15, CGL+17, CWT+08, CYB08, DZMQ16, DT10, Elh05, GMD+16, GSCI15, GNDV+18, GGZ+18, HKYM17, IFP97, JK01, KPE16, LLY+16a, LS13b, LL14, LGG19, LLL+19a, LSY+18, LFW+19, MSA17, NSXL13, OSK16, PSN06, PKL+18, PW12, RB07, RB18, SV08, SSW18, TC09a, TW18, WBB+13, WSY17, WGG+19, WAG+12, WMA+16, WS09, WPZ+11, YHL08, YYFX18, ZH15, ZWC+16, ZNNX16, ZCL+19, ZWLC19, ZCW19, ZKK02, vdEW14, vLB+16]. Vials

[SAB+16]. ViBr [CXDR19]. Vibrotactile [LBHW18, dJ0BN17, UBB19]. Video

[Anol4h, BGS17, BC18a, BBS+08, CBH+06, CCL+16, CRH05, DFG+14, DTW+15, FH06, FR13, GSP08, HB14, HKH+12, KBD+11, KCW13, LHI+18, LC+13, LPS+13, LGY12, LLY+13, LDX10, LZW+13, LXT18, MI13, MFZ+17, NSXL13, OH12, PLC+11b, PZ07, PWG17, Rob98, RSSA08, RG95, SJL+18b, SBE+15, SJK+12, TT05, TUG17, WBK+08, WLL13, WLT+18b, WLY12, YK12, ZHQ+07, ZNNX16, ZLX+18, ZZH19, SKC+19]. Video-Based [FR13, ZLK+18]. VideoPlus

[Tay02]. Videos

[ARL+17, LYL19, RPAC17, SZN+18, WKCB07, WBK+08, WCW+16, ZDJ+09]. ViDX [XMR17]. View

[AS98, BH07, BSEN18, BNT16, CLW18, DTT+17, FNM13, GLRH13, GR15, GYO2,

Visual

[AHSS14, AJDL08, AABH+16, AMM+08, AAMG12, AAMH13, AHH+14, AHRG10, AABW12, ABC+19, Ano12g. ASMP17, AERA14, AIS18, BW14, BDF16, BBD+11, BCT13, BKW16, BMLC19, BHZ+18, BAAK+13, BIJ2, BBG+09, BJK+16, BAF+13, BARM+12, BSEN18, BPM+13, BBF12, BDD+16, BISM14, BC12, BSG+09, BM10, BSWL12, CDDS18, CGSQ11, CWZ+14, CSL+16, CLG16, CLZ+18, CD19, CGM+17, CWT+08, CBH+06, CCM+14, CVY+16, CCL+16, CXR18, CHW+18, CVG13, CDF14, CDW+16, CORL96, CPMC06, CLB11, CCM12, CFEC17, DVP+18, DLW+17, DSG+17, DGWC10, DDBR+19, DR08, ERLW18, Eic00, EASS+18, EASD+19, EDF08, ERHRF10, EDF11, EGG+12, Ert10c, EBB+15, FHKM17, FKLT10, FPV+13, FMHO8, FHZ+09, FZCQ17, FWG09, FBM16, GFC+14, GPBWP10, GKL+13, GJZ+12, GS14, GHL18, GLG+13, GS06, GRVE07, GBFM16, GHL15, GXZ+18, GJG+19, GDB17, HSCW13, HWHK16, HEFR18].

Visual [HSR13a, HKR+08, HE12, HKB12, HHKE16, HEG+17, HLRC+12, HBW14, HFG+12, HMZ+14, HPvU+18, HSTD18, HTA+15, HZM+16, HAS11, HOGJ13, HVF13, HJC14, IDA+14, IFP+12, IAS19, JER16, JBSM09, JFS16, JAO+14, JE13, JSR+19, JYC+10, KAKC18, KTC+19, KG5+08, aKGS11, aKSI2, KLYE13, KBE+18, KNR17, KLM+08, KMDH11, KH13, Kei02, KRT+V06, KHS+19, KV08, KLE+09, KKP+17, KOJL+14, KBGE11, KJW+14, KDM+16, KMG+06, KBH06, KSDD14, KFS+19, KS16, KS02, KTE15, KSB18, KG06, KRRW19, KW13, KHSW17, KKL+16, KEV+18, KCK+19b, LSSB12, LBS13, LMK07, LHD18, LRM+13, LC17+13, LGM+18, LBK+18, LXC+17, LWCC18, LLB+06, Lna16b, LSS09, LS10, LH14, LS16, LYV+16, LWL+17, LDM+18, LXL+18, LBT+18, LLL+19b, LGS12, DSC+16, LFA+16, LDFZ14, LWLM18, LFW+19, MWSJ14, MRO+12, MRH+10, MPK+13, MHS07, MEV+14, MRSS+13, MMT+14, MWCR06, MKN+07, MMH+13, MPWG12].
Visualisation

[AVHK06, AL06, AJDL08, AMJ+12, AZM12, AD12, AJ17, ADG11, ALBR16, AHH+17, ARB07, ARRC11, AHHKMF11, AR17, AW10, AH11, Ano10c, Ano10d, Ano11i, Ano11c, Ano11d, Ano12h, Ano13j, Ano13k, Ano13e, Ano13d, Ano13f, Ano14c, Ano14j, Ano14k, Ano14l, Ano14g, Ano14f, Ano15a, Ano16f, Ano16a, Ano16k, Ano16l, Ano16b, Ano16c, Ano17e, Ano18a, Ano18b, Ano19a, Ano19e, APS+14, AB01, ASEL06, AMB+13, BRH+17, BW08a, BFE15, BRT12, BB07, BCH+13, BE18, BKDE00, BGOJ16, BMW06, BI12, BJ1+12, BWV+17, BZGV14, BLLS17, BVW+07, BAB+18, BBB+19, BSL+12, BJA+19, BARM+12, BYB+13, BVB+13, BBK+16, BSR+14, BH09, BBS+08, BSL+14, BEJ12, BRBF14, BFD16, BHTY15, BVpHR9, BM13, BE09, BPS+11, BGM+17, BMW17, BFTW09, BvL06, BVV+11, BJT+13, BAW16, CR08].

Visualisation

[CDC+07, CSL+10, CFM+13, CCH14, Car19, CZ11, COJ15, CWK+07, CBH+06, CYB08, CWDH09, CJ10, CCAL12, CZC+15, CG16, CGJM19, CCJ+19, CDL+16, CLC+15, CR06, CCQ+14, CPW+15, CFF09, CPMS07, CD04, CwV11, CDF09, CW11, CSC06, CM09, CDM+06, CRB+05, CQZ+08, CRPH10, CMP14, DK1a, DPW+15, DSSK08, DBM+06, DWD14, DBH14, DZMQ16, DFQ12, DDGL07, DGBW09, DB11, DPR00, Dil17, DBD17, DL11b, DLR09, DTW+15, DWBR06, DHR+19, DCH+17, DRMM13, DB07, DWS10, ES01, Ebe17, EGH+06, EDF08, ET08, EF10, EHP+11, EMdSP+15, ESN+09, FYTL19, FWD+17, FPB17, FKRW17, FCL09, FC95, FSE12, FSME14, FTES13, FH07, FH16, FM04, GGT07, GJ10, GNP11, GLv+12, GGG+18, GLH+14, GHGM06, GNSP+14, GJC+17, GDJ+13, GLK+13, GSWD18, GABJ07, GABJ08, GGA+11, GWE+19, GHL18, GTS10, GTS11, GRS95, GMM05, GKH5].

[AVHK06, AL06, AJDL08, AMJ+12, AZM12, AD12, AJ17, ADG11, ALBR16, AHH+17, ARB07, ARRC11, AHHKMF11, AR17, AW10, AH11, Ano10c, Ano10d, Ano11i, Ano11c, Ano11d, Ano12h, Ano13j, Ano13k, Ano13e, Ano13d, Ano13f, Ano14c, Ano14j, Ano14k, Ano14l, Ano14g, Ano14f, Ano15a, Ano16f, Ano16a, Ano16k, Ano16l, Ano16b, Ano16c, Ano17e, Ano18a, Ano18b, Ano19a, Ano19e, APS+14, AB01, ASEL06, AMB+13, BRH+17, BW08a, BFE15, BRT12, BB07, BCH+13, BE18, BKDE00, BGOJ16, BMW06, BI12, BJ1+12, BWV+17, BZGV14, BLLS17, BVW+07, BAB+18, BBB+19, BSL+12, BJA+19, BARM+12, BYB+13, BVB+13, BBK+16, BSR+14, BH09, BBS+08, BSL+14, BEJ12, BRBF14, BFD16, BHTY15, BVpHR9, BM13, BE09, BPS+11, BGM+17, BMW17, BFTW09, BvL06, BVV+11, BJT+13, BAW16, CR08].

Visualisation

[CDC+07, CSL+10, CFM+13, CCH14, Car19, CZ11, COJ15, CWK+07, CBH+06, CYB08, CWDH09, CJ10, CCAL12, CZC+15, CG16, CGJM19, CCJ+19, CDL+16, CLC+15, CR06, CCQ+14, CPW+15, CFF09, CPMS07, CD04, CwV11, CDF09, CW11, CSC06, CM09, CDM+06, CRB+05, CQZ+08, CRPH10, CMP14, DK1a, DPW+15, DSSK08, DBM+06, DWD14, DBH14, DZMQ16, DFQ12, DDGL07, DGBW09, DB11, DPR00, Dil17, DBD17, DL11b, DLR09, DTW+15, DWBR06, DHR+19, DCH+17, DRMM13, DB07, DWS10, ES01, Ebe17, EGH+06, EDF08, ET08, EF10, EHP+11, EMdSP+15, ESN+09, FYTL19, FWD+17, FPB17, FKRW17, FCL09, FC95, FSE12, FSME14, FTES13, FH07, FH16, FM04, GGT07, GJ10, GNP11, GLv+12, GGG+18, GLH+14, GHGM06, GNSP+14, GJC+17, GDJ+13, GLK+13, GSWD18, GABJ07, GABJ08, GGA+11, GWE+19, GHL18, GTS10, GTS11, GRS95, GMM05, GKH5].

[AVHK06, AL06, AJDL08, AMJ+12, AZM12, AD12, AJ17, ADG11, ALBR16, AHH+17, ARB07, ARRC11, AHHKMF11, AR17, AW10, AH11, Ano10c, Ano10d, Ano11i, Ano11c, Ano11d, Ano12h, Ano13j, Ano13k, Ano13e, Ano13d, Ano13f, Ano14c, Ano14j, Ano14k, Ano14l, Ano14g, Ano14f, Ano15a, Ano16f, Ano16a, Ano16k, Ano16l, Ano16b, Ano16c, Ano17e, Ano18a, Ano18b, Ano19a, Ano19e, APS+14, AB01, ASEL06, AMB+13, BRH+17, BW08a, BFE15, BRT12, BB07, BCH+13, BE18, BKDE00, BGOJ16, BMW06, BI12, BJ1+12, BWV+17, BZGV14, BLLS17, BVW+07, BAB+18, BBB+19, BSL+12, BJA+19, BARM+12, BYB+13, BVB+13, BBK+16, BSR+14, BH09, BBS+08, BSL+14, BEJ12, BRBF14, BFD16, BHTY15, BVpHR9, BM13, BE09, BPS+11, BGM+17, BMW17, BFTW09, BvL06, BVV+11, BJT+13, BAW16, CR08].
MRO, MKHD05, MB03, MB19, MHG10, MLD07, MGL07, Ma18, MK16, MCK12, MHD08, MA08, ME09, MMAM14, McK09, MGD19, MI13, MK06, MSW08, MMK06, MSE06, MRS13, MVB17, MSSD08, MNK07, MDS18, MQF06, Mis18, MTW12, Mw03, MMCE09, ME11b, Mor13, MWN19, MHDG11, MGW10, Mun09, MNG17, NGK18, NW15, NMYK06, MSE07, MWD19, WFS18, WSL19, WWS18, WLF19, WTL09, WEE03, WBE06, WSE07, WZ18, WCD19, WAG12, WST07, WKB13, WRT19, WFS19, WSO1, WJR13, WWFT03, WSM09, WFM12, WG12, WMA16, WII12, WKD19, WS06b, WS09, WKSS05.

Visualization

[NW0917, NKHC08, NZ06, Nie95, Nie96, NSl19, NOB16, NSvW11, NH06, NASK18, ORR10, QJ12, OHJ11, OM09, OR98, OR99, OSS17, OPH16, OSBM14, PW05, PZ12, PZ11, PLC11, PBO12, PMN14, PSK06, PK13, PGK16, PPL09, PLC11b, PGL12, PKS08, PPF12, PK16, PHJ10, PSBS12, PW12, PYHZ14, PRA10, PSM07, PPV09, PBC11, PMD07, QMK06, QH18, RESC16, RGF04, RB09, RVG06, RBH14, RBS18, RPS09, RGR13, RGP12, R08, RASS17, RB11, RHR09, RPH08, RP12, KGK18, RB18, RM15, RSD13, RvWT05, SHM10, SMDS14, SP06, SP10, SKBE17, SSRE18, SE17, SSC16, SLA09, SZB09, SZD10, SRHH16, SH16, SF09, SKS12, SWC08, SPO12, SKK14, SK16b, STS07, SHS11a, SHS11b, SNH03, SASS16, SN06, SFMB12, SH10, SG09, SKYS14, SBSG06, SS16].

Visualization

[SOL13, S07, SLB04, SCL12, SWW15, SRM19, SS012, SA06, S117a, S117b, S118a, S118b, S119, SJH07, SVGR16, SPCLJ06, SCM06, SOL16, SD12, SPEB18, SG09, STH02, STH03, SB17, SE19, SPB08, SOR09, SSB09, SGM11, SEA09, SSG16, Sza18, SS13b, TH13, TD05, TSLR07, TLD12, TWMS13, TWSK14, TWSS16, TCM06, TDR10, TBB07, TBB08, TC09b, TCM10, TIC09, TSA12, TLS17, TM04, TKAM06, TBR12, TGS11, TNS10, USM97, UKF18, VZS18, VABW09, VP04c, VFR13, VW07, WFW09, VKG05, VI18, VB18, WJA17, WBJ16, WS06a, WGS07a, WGM08, WLT08, WYM08, WWLM11, WSA16, WFC18, WWS18, WLF19, WCL06, WTL09, WEE03, WBE06, WSE07, WZ18, WCD19, WAG12, WST07, WKB13, WRT19, WFS19, WSO1, WJR13, WWFT03, WSM09, WFM12, WG12, WMA16, WII12, WKD19, WS06b, WS09, WKSS05.

Visualization

[WWL10, WLL13, WP16b, WCA17, WLS18, XHT17, XLS10, XRP12, X19, YESK05, YGV13, YHR19, YaKJS07, Ynn19, YN06, YSI10, YS17, YNCP06, YS19, ZHT07, Z07, ZYLL09, ZWA13, ZSL16, ZCD19, ZFS19, ZCBB12, ZGB17, ZBG17, ZMM10, ZAML11, ZB08, ZY18, ZOC13, dLV06, tCM07, tCM08, bVW10, bPVvW10, WSP06, WC06, vW06, vW14, vDEbV14, vFTS08, vFR17, ZZK14, BPC10, CJ07, FHL10, GSG14, GL17, JQD08, HT19, W09, WBD14, Joy02, MFS09, SG06, Var01, vWMT04].

Visualization-by-Sketching [SK16b].

Visualization-Driven [HBJP12].

Visualization-Opportunities [KGD19].

Visualizations

[AS05, ARH15, BS08, BLE19, BBD11, BDFM17, BVV19, B09, CC07, CPC09, CKL19, CW06b, DB10, DB18, DBBF19, DCCW08, DMC15, FPH19, FDF10, GPL11, GCH16, GGC17, GNDV18, GWF04, GTB19, GTS10, GTS11, HYFC14, HV13, HBW06, HKKS18, J07, K08, MFS09, SGR06, VAR01, vWMT04].

Visualization-Driven [HBJP12].

Visualization-Opportunities [KGD19].

Visualizations

[AS05, ARH15, BS08, BLE19, BBD11, BDFM17, BVV19, B09, CC07, CPC09, CKL19, CW06b, DB10, DB18, DBBF19, DCCW08, DMC15, FPH19, FDF10, GPL11, GCH16, GGC17, GNDV18, GWF04, GTB19, GTS10, GTS11, HYFC14, HV13, HBW06, HKKS18, J07, K08, MFS09, SGR06, VAR01, vWMT04].

Visualization-Driven [HBJP12].
VC17, VMCJ10, WL0b+14, WAM+19, WCR+11, WHP+18, WHA07, YEB16, YEH12, ZLB+05, ZGC+17, ZLC+19. **Visualize** [BSH+16, BSKR19]. **Visualizer** [vTRvdM97]. **Visualizing** [AWHS16, AK02, AABS+14, AW14, Bac07, BHS12, BS95, BPP+16, BMGK08, BSSB10, BEV95, BHP+12, BLIC19, BJC+19, CQM10, CXDR19, C0OKV09, DCK+12, FTB+13, FLF+11, FN13, FS04, GKN05, GHA+08, Gle18, GDS16, GBP13, HHWN02, HHZH17, HWS17, IML13, IB+14, IWSK07, JHP+14, JM10, JCRS09, KILO7, KHA12, KHDL07, KLC08, KRH18, KBI+18, KSSW09, KM96, KTB+18, LMZ06, LLB+12, LAX+11, LRKC10, LPK+13, LFH07, LFH08, LMW+17, LPRCH19, MRS+12, MKH12, MLCM16, MQB19, NSH+18, NJBJ09, NGCL19, OHWS13, PKF07, PMW13, RFFT17, RS0W18, RKKF19, RSSA08, RM13, SSMG13, STM17, STS06, SBV+11, SKMR98, SM+10, SK98, SWL+14, SW97, STM08, SGAS16, SAB+16, Sum03, TR+12, TTS10, TS07, VRW13, VBW16, VvWdL06, WHZ+18, W118, WPL96, WSW+18, WYM12, WXW+19, ZFA+14, ZDL03, ZCLO9]. **Visualizing** [ZWJZ12, ZWR14, vLdL03]. **Visually** [DYW+13, GDB12, LK09b, LYK+12, MOC+14, PGFS16, PIS15, QM16, WCS+18, YLZ+13]. **Visuo** [CGB+13, EPS+15]. **Visuo-Haptic** [CGB+13, EPS+15]. **VisWeek** [A0n12q, Cox11, Cze12, Fra12, Heg10, Sza10, Tha11]. **Vivaldi** [CCQ+14]. **Viz** [RSSA08]. **Viz-A-Vis** [RSSA08]. **VizItCards** [HA17]. **VLAT** [LKK17], **vLOD** [CPK+05]. **Vocabulary** [IHD+18, TWSS16]. **Voila** [CLZ+18]. **Vol** [A0n14c, A0n15a, A0n16f, A0n16a, A0n18a, A0n19a, SB17]. **Volume** [AWC10, ASW13, AD16, AZD17, AGDJ10, A0n09b, BRSP18, BLM96, BLL19, BMTD05, BMW06, BHW07, BJNN08, BG06, BGKG06, BKW08, CR08, CICS05, CBPS06, CCQ+08, CWM+09a, CYZ+09, CCB11, CCJ+19, CCQ+14, CMPS97, CDMA+04, CHF95, CHF96, CML+12, CMSW04, CSC06, CM08, CM09, CMM11, Cse08, DSP+17, EMRY02, EJR+14, FM07, FM12a, FM12b, FAW10, FE17, FH16, FMST96, GMD+16, GMS+07, GHGM06, GAMD10, Guo95, GMY11, GXY12, GWK12, HLRS+08, HBJP12, HAA+18, HBS01, HWHK16, HMBG01, HLM10, HA04, HLY10, HMM14, HBC12, HZM13, HZH14, IZM18, ISC07, IY01, J09, J0K12, KSH03, KOCc14, KSSS13, KWP01, KV06, KMKY10, KWH00, KISE14, KHM+98, KKH02, KPH+03, KHPS07, KWH+09, KJL+12, KPKS08, LBG+16, Lac96, LSSB12, LBS13, LBS14, LCMH09, LGM+08, LYS+10, LS13a, LR11, LLRR08, LC0P13, LWP+06]. **Volume** [LTP+05, LMC02, LLY06, LLPY07, MB18a, MDM10, Max95a, MB18b, MAWM11, MHDG11, Mun95, NKH14, NJ16, NvdV00, PMP10, PPL+99, PK16, PHF07, PPK+08, PRH01, RSB96, R0G07, RPSC99, RLNN11, RE+18, R0H8, RZNS04, SE17, SW+06, SYM14, SM17, SMP11, SE18, Sel15, SMG11, SKHM14, SHC+09, SK00, SB17, SYR11, SGM+11, TLD+12, T017, TCM05, V0K50, W05S0a, W0G07a, WM08, WCZ+11, W0LL11, W0K13, W0C+17, WEE03, WFG+19, WZL04, WMS98, WQ07, WKI+17, XTY+11, Y0SK95, YLX+12, YL95, YNCP06, Z13, ZDM13, ZXM10, ZAM11, ZW11, vPVvdW10]. **Volume-Accurate** [AGDJ10]. **Volume-Based** [PMP10]. **Volume-Preserving** [H0ZH14, RSB96]. **Volume-to-Volume** [A0n14b, CMCL06, EMRY02, FG99, HBAB14, HK09, IVJ12, JS06, KCOY03, KSTE06, MA096, MKW+08, SMG+13, SKHM14, SII95, WFKH07, WD10, WFG+19, vRKEE17]. **Volumetric**
References

Andrienko:2011:SGA

Andrienko:2013:STU
Natalia Andrienko, Gennady


REFERENCES


Antani:2012:DIA

Ahrens:2012:GEI

Ament:2016:AAV

Asthana:2012:FPT

Albers:2011:SSL

AlBorno:2013:TOF

Assfalg:2002:TDI
Jürgen Assfalg, Alberto Del Bimbo, and Pietro Pala.


REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Alcazar:2016:FAR

CODEN ITVGEA.
ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Alexander:2016:TDC

CODEN ITVGEA.
ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Alcazar:2017:DWI

CODEN ITVGEA.
ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Alcazar:2016:FAR

CODEN ITVGEA.
ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Alexander:2016:TDC

CODEN ITVGEA.
ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Alcazar:2017:DWI

CODEN ITVGEA.
ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Ahn:2006:CRL

CODEN ITVGEA.
ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Andreasen:2019:AFN

REFERENCES


Youn ah Kang and John Stasko. Examining the use of a visual analytics system for sensemaking tasks: Case studies with domain experts. *IEEE Transactions
REFERENCES


Antani:2013:APD


Archambault:2006:SPF


Archambault:2007:TMG


Archambault:2008:GSE


Archambault:2011:TGF


Auzinger:2013:VVU

REFERENCES


REFERENCES

Anonymous:1997:E


Anonymous:1999:I


Anonymous:2000:RL


Anonymous:2000:I


Anonymous:2001:AIA

REFERENCES


[Anonymous:2002:I]


[Anonymous:2003:AI]

[Anonymous:2004:AI]

[Anonymous:2005:ENa]
Anonymous. Editor’s note.


[Anonymous:2005:ENa]
Anonymous. Editor’s note.

Anonymous:2005:ENb


Anonymous:2005:LFS


Anonymous:2005:NTR


Anonymous:2005:RL


Anonymous:2006:RL

Anonymous:2007:RL


Anonymous:2008:RL


Anonymous:2008:BMB


Anonymous:2008:CP


Anonymous:2008:PP


Anonymous:2009:AIT


Anonymous:2009:HQS

Anonymous:2009:RLT


Anonymous:2009:TVIb


Anonymous:2009:TVIa


Anonymous:2010:RL


Anonymous:2010:VCA


Anonymous:2010:VTA


Anonymous:2010:AIC

REFERENCES


[Ano11h] Anonymous. [front cover]. *IEEE Transactions on Visualization and Computer Graphics*, 17(7):c1, July 2011. CODEN ITVGEA. ISSN 1077-
REFERENCES

Anonymous:2011:IVC

Anonymous:2011:IFC

Anonymous:2011:TC

Anonymous:2011:TIA

Anonymous:2012:A1a

Anonymous:2012:RL

Anonymous:2012:A1b

Anonymous:2012:A1c

Anonymous:2012:CPI
REFERENCES

Anonymous:2012:C


Anonymous:2012:GEI


Anonymous:2012:IVG


Anonymous:2012:IPC


Anonymous:2012:PR


Anonymous:2012:R


Anonymous:2012:SC


Anonymous:2012:S

REFERENCES

**Anonymous:2012:TCa**


**Anonymous:2012:TCb**


**Anonymous:2012:TP**


**Anonymous:2012:VCC**


**Anonymous:2013:TAI**


**Anonymous:2013:TRL**


**Anonymous:2013:VVCa**


**Anonymous:2013:VVTa**


**Anonymous:2013:VVCb**

REFERENCES


Anonymous:2013:VVTb [Ano13j]

Anonymous:2013:AIa [Ano13k]

Anonymous:2013:AIb [Ano13l]

Anonymous:2013:CC

Anonymous:2013:IVGa

Anonymous:2013:IVGb

Anonymous:2013:IPCa

Anonymous:2013:IPCb
Anonymous. International Program Committees. IEEE Transactions on Visualization and Computer Graph-
Anonymous:2013:MEC


Anonymous:2013:MPC


Anonymous:2013:PR


Anonymous:2013:R


Anonymous:2013:SC


Anonymous:2013:TC


Anonymous:2013:VCS


Anonymous:2013:VKS

REFERENCES

Anonymous:2013:VCC


Anonymous:2014:RL


Anonymous:2014:VRC


Anonymous:2014:VRT


Anonymous:2014:VTAb


Anonymous:2014:VTAa


Anonymous:2014:MVP


Anonymous:2014:RSC


Anonymous:2014:TCa


Anonymous:2014:VCCb


Anonymous:2014:VIP


Anonymous:2014:VR
REFERENCES


Anonymous:2014:VSE


Anonymous:2014:VCCa


Anonymous:2015:IIT


Anonymous:2015:RLa


Anonymous:2015:VVR


Anonymous:2015:C


Anonymous:2015:CAI

Anonymous:2015:FCa


Anonymous:2015:FCb


Anonymous:2015:ICC


Anonymous:2015:IEM


Anonymous:2015:MEC


Anonymous:2015:MVP

Anonymous. Message from the VR Program Chairs and
REFERENCES


Anonymous:2016:MECa


Anonymous:2016:MECb


Anonymous:2016:MVPa


Anonymous:2016:MVPb


Anonymous:2016:PR


Anonymous:2016:TCa


Anonymous:2016:TCb


Anonymous:2016:VPR


Anonymous:2016:VCC

REFERENCES

Anonymous:2016:VIP


[Ano16w]

Anonymous:2016:VSE


[Ano16x]

Anonymous:2016:AIa


[Ano17c]

Anonymous:2016:AIb


[Ano17d]

Anonymous:2017:RLa


[Ano17e]

Anonymous:2017:RLb


[Ano17f]
REFERENCES


Anonymous:2017:PRb


Anonymous:2017:P


Anonymous:2017:VCC


Anonymous:2018:IIT


Anonymous:2018:ITV


Anonymous:2018:CC


Anonymous:2018:Ca


Anonymous:2018:Cb

REFERENCES

Anonymous:2018:IPC

Anonymous:2018:PR

Anonymous:2018:VIP

Anonymous:2018:VSC

Anonymous:2018:VCC

Anonymous:2019:IIT

Anonymous:2019:RL
Anonymous: 2019: Ca


Anonymous: 2019: Cb


Anonymous: 2019: ITV


Anonymous: 2019: IIP


Anonymous: 2019: IPR


Anonymous: 2019: SIP

Anonymous:2019:SPR


Anonymous:2019:TC


Anonymous:2019:VPR


Anonymous:2019:VCC


Adams:2018:LRP


Archambault:2011:ASM


Arikan:2014:LSP

Murat Arikan, Reinhold


REFERENCES


[ASDW14] Marco Ament, Filip Sadlo, Carsten Dachsbecher, and
REFERENCES


Marco Ament, Filip Sadlo, and Daniel Weiskopf. Ambient volume scattering. *IEEE
REFERENCES


Agam:2005:SFA


Anand:2016:ASP


Andrews:2016:BLM


Au:2006:DLE


Ando:2012:PFS


Abello:2006:AGL


Ashraf:2003:SRC

Golam Ashraf and Kok Cheong Wong. Semantic representation and correspondence for state-based motion transition. IEEE Transactions on
REFERENCES

Armstrong:2014:VSM


Arbree:2011:HSS


Ament:2010:DIV


Ali:2009:CFD


Au:2012:MSC

References

Ament:2017:EOV

Alspaugh:2019:FMI

Ahmed:2012:HCV

Baerentzen:2005:SDC

Beyer:2013:CQG

Bladin:2018:GBC
REFERENCES

802–811, January 2018. CODEN ITVGEA. ISSN 1077-2626.

**Bachmaier:2007:RAS**


**Bogl:2013:VAM**


**Bailenson:2013:KSI**


**Bergstrom:2017:PSQ**


**Barsky:2005:MJW**


**Borgo:2012:ESU**

REFERENCES

Byrne:2016:ACM


Barth:2007:VRF


Banks:2009:DII


Baudel:2012:CDS


Boukhayma:2019:SMC


Bramon:2012:MDF


Blascheck:2019:GVS

Tanja Blascheck, Lonni Besancon, Anastasia Bezerianos,
REFERENCES


Barreira:2018:CAM


Bai:2015:UAR


Bottger:2006:CLV


Batagelj:2011:VAL


Blaas:2009:SGV


Bhargava:2018:EML

[BBG+18] Ayush Bhargava, Jeffrey W.
REFERENCES


Behrisch:2017:MIB


Behrisch:2017:MIB


Boukhelifa:2012:ESV


Bronstein:2007:CNS


Baxter:2009:CES


Borkin:2016:BMV
REFERENCES

Blaas:2008:EPC


Botchen:2008:ABM


Brown:2012:FMB


Borsoi:2018:PIP


Buttussi:2018:EDT


Bier:2010:PTC

REFERENCES

1077-2626 (print), 1941-0506 (electronic), 2160-9306.


[BDD+16] Quirijn W. Bouts, Tim Dwyer, Jason Dykes, Bettina Speckmann, Sarah Goodwin, Nathalie Henry Riche, Sheelagh Carpendale, and Ariel Liebman. Visual en-

**Bezerianos:2010:GSE**


**Bapat:2016:TKH**


**Bigelow:2017:IBT**


**Bovet:2018:CRS**


**Bertram:2004:GBS**

Bargo:2014:OMM


Barequet:1998:RGT


Beecham:2017:MLE


Bonnell:2003:MIR


Bock:2018:TIT


Biswas:2013:IAF

REFERENCES


REFERENCES

**Bremer:2004:THF**


**Baboud:2012:PSS**


**Becker:1995:VND**


**Barhak:2001:PRS**

Badam:2015:MPP

Buerger:2009:ISS

Bartholdi:2004:MIT

Bruckner:2006:EVV
Stefan Bruckner and M. Eduard Gröller. Exploded views for volume data. *IEEE Transactions on Visualization and Computer Graph-
Bruckner:2007:EDP


Bhattacharya:2015:LSM


Babu:2011:IVP

Sabaris

Bruckner:2006:ICP

Stefan Bruckner, Soren Grimm, Armin Kanitsar, and M. Ed-


Buering:2006:UIS

Barakat:2012:ICR

Bair:2007:GVO

Bostock:2009:PGT

Barrera:2004:FSE

Beham:2014:IX
Bachmann:2019:MUR


Block:2012:DEV


Balsys:2012:VNS


Bujack:2015:MIF


Baricevic:2017:UPA


Bao:2007:FRM

Zhaosheng Bao, Jeong-Mo
REFERENCES


REFERENCES


REFERENCES

Buchmuller:2019:MVC


Bar-Joseph:2001:TMT


Blascheck:2016:VVA


Bhasker:2007:RTU


Brady:1998:IVN


Bilal:2018:DCN

A. Bilal, A. Jourabloo, M. Ye, X. Liu, and L. Ren. Do
REFERENCES


**Biggers:2012:IBS**


**Bender:2017:DFS**


**Bimber:2011:CLF**


**Bender:2000:FFW**


**Burch:2011:ETO**


**Beck:2013:IGG**

Stephan Beck, Andre Kunert, Alexander Kulik, and Bernd Froehlich. Immersive group-to-group telepresence. *IEEE


Bruckner:2018:GEI


Bitter:2001:PDV

Ingmar Bitter, Arie E. Kaufman, and Mie Sato.


B. Bolte and M. Lappe. Subliminal reorientation and repositioning in immersive

**Blascovich:2012:CS**


**Brehmer:2017:TRD**


**Badam:2019:EDC**


**Byska:2016:AEP**


**Brehmer:2019:VRT**


**Berger:2019:GMV**

Matthew Berger, Jixian Li, and Joshua A. Levine. A
REFERENCES

Biswa:2017:VTV


Bentum:1996:FAG


Broll:2005:IRC


Burdea:2005:GES


Banks:2004:CCS

Bodin:2012:CF


Bruder:2015:CRD


Bronson:2014:LCM


Bruckner:2010:RDE


Brehmer:2013:MLT


Beyer:2019:CES

REFERENCES


REFERENCES


Badam:2019:VCM


Berger:2017:CCD


Boulic:1997:CCP


Berger:2006:SAF


Bryan:2017:TSI


[BMWM06] Steven Bergner, Torsten


Brehmer:2016:MMM


Bonneau:1998:MAI


Bruneau:2015:GTG


[BO+14]


Bhatia:2014:NHH


Borgo:2010:EIT

Rita Borgo, Karl Proctor, Min Chen, Heike Janicke, Tavi Murray, and Ian Thornton. Evaluating the impact...


[BPG12] Born:2013:VAC


[BRBF14] Barbosa:2016:VIK


**Bach:2017:TUE**


**Brooks:2007:MMP**


**Ballester-Ripoll:2019:TDI**


**Broll:2018:MISb**

Wolfgang Broll, Holger Regenbrecht, and J. Edward Swan. Message from the ISMAR 2017 Science and Technology Program Chairs and

**Ballester-Ripoll:2018:MVF**


**Barakat:2012:SBS**


**Bruneton:2017:QQE**


**Banks:1995:PCT**


**Blundell:2002:CVD**

REFERENCES

Botsch:2008:LVS

Bartram:2011:WDS

Butkiewicz:2016:EST

Bach:2018:HMH

Baumeister:2017:CCU

Bork:2018:TEV
REFERENCES


REFERENCES

170

2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES

171

Baur:2010:SOL

Bolling:2019:SCA

Buchin:2011:FML

Bruder:2012:TSM

Barakat:2013:ARF

Berkley:2004:RTF
Jeffrey Berkley, George Turkuyyahi, Daniel Berg, Mark Ganter, and Suzanne Weghorst. Real-time finite element modeling for surgery simulation:

**Borst:2010:RTR**


**Baudel:2013:DEL**


**Bosch:2013:SRT**


**Borst:2011:SPC**


**BTC11**

REFERENCES


REFERENCES


REFERENCES


REFERENCES

2008. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


Bernard:2013:MES

Bremer:2010:ATB

Blate:2019:IEK

Benthin:2012:CSP

Bhattacharya:2017:IEV
Arindam Bhattacharya, Johannes Weissenbock, Rephael

Badri:2015:FEA


Borkin:2013:EFP


Bista:2014:VBM


Bekele:2013:UHA


Chen:2000:PMI

REFERENCES

ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306. URL http://dl.acm.org/citation.cfm?id=2075293.2075296.


R. Jordon Crouser and Remco Chang. An affordance-based

Chen:2012:ESS


Chen:2011:EDV


Carpendale:2014:GEI


Cheng:2019:DLA

REFERENCES

Chen:2007:SGS


Chen:2016:PVA


Clarke:2011:AGC


Correa:2012:VRA


Chan:2013:GSS


Cheng:2013:SFM


Chen:2014:VAE

Haidong Chen, Wei Chen, Honghui Mei, Zhiqi Liu, Kun

Choi:2014:VDS


Choi:2009:CCD


Carr:2014:JCN

Cavallo:2019:CGV


Cotin:1999:RTE


Chakravarthula:2018:FAF


Chalmers:2014:IDE


Cammarano:2007:VHD


Candela:2018:RVE

REFERENCES


Clarkson:2009:RVS

Chevalier:2014:SES

Chang:2019:P

Chen:2004:FAS

Cordeil:2017:ICA
REFERENCES


REFERENCES

CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES


Cosco:2013:VHM


Camp:2011:SIU


Cani-Gascuel:1997:ADM


Chu:2018:MIS


Chen:2019:SBS


Chen:2019:ITA

Min Chen, Kelly Gaither, Nigel W. John, and BrianMcCann. An information-theoretic approach to the

**Cai:2017:SAA**


**Ceneda:2017:CGV**


**Cao:2011:DIV**


**Collomosse:2003:CSR**


**Correll:2017:SBW**

Cochran:1995:FVC

Cochran:1996:FVC

Chittaro:2016:DSG

Chao:2009:HCS

Correa:2011:CGE

Carmel:2004:CHE

Christensen:2003:AIR
[Chr03] Per H. Christensen. Adjoints

**Chen:2010:ITF**


**CHW+18**


**Callahan:2005:HAV**


**Caban:2007:TBF**


**Craciun:2005:SDW**

REFERENCES

CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES

2626 (print), 1941-0506 (electronic), 2160-9306.


[Coquillart:2014:MPC]


[Chen:2012:DTV]


REFERENCES


Cao:2012:SDS


Coffey:2013:DDI


Cao:2016:UMV


Correll:2019:LGM


Chan:2008:HMP


Cirio:2017:YLC


Choo:2013:UUD

[CLRP13] Jaegul Choo, Changhyun Lee,

Chrysanthou:2007:GEI


Cao:2012:WTS


Cui:2011:TTB

Weiwei Cui, Shixia Liu, Li Tan, Conglei Shi, Yangqiu


REFERENCES

Correa:2008:SBT

Correa:2009:OSV

Carr:2010:SAT

Correa:2011:VHV

Chentanez:2014:MCE

Cheng:2016:DCM

Castanie:2006:DSM
REFERENCES

Chentanez:2012:MFP

Chen:2018:RTL

Crassin:2016:AGB

Chentanez:2015:CEH

Chen:2007:VFE
Guoning Chen, Konstantin Mischaikow, Robert S. Laramee, Pawel Pilarczyk, and Eugene Zhang. Vector field editing and periodic orbit extrac-
REFERENCES

Coffey:2012:ISW

Clyne:2013:PBF

Chen:2009:COD

Cui:2014:ADI
Jian Cui, Zhiqiang Ma, and Voicu Popescu. Animated depth images for inter-

---


Coffey:2012:ISW

CML+12

[CMLZ08]

Chen:2008:EMD

[CML+12]

[CMM+97]

Chen:2009:COD

[CML+12]

[CMM+97]


[CMSW04] Richard Cook, Nelson Max, Cláudio T. Silva, and Peter L. Williams. Image-space visibility ordering for cell projection volume rendering of unstructured data. *IEEE Transactions on Visualization and Computer Graph-
Cohen-Or:2003:SVW


Cirio:2013:KEV


Cohen-Or:1996:RTP


Chandler:2015:IBP


Cox:2011:VCA

Amanda Cox. VisWeek capstone address. *IEEE Transactions on Visualization and Computer Graphics*, 17(12):xxiv, December 2011. CODEN ITVGEA. ISSN 1077-

Cox:2011:VCA


Young-Woon Cha, True

Chan:2008:RAV


Chang:2010:VSS


Caban:2008:PIV


Crossno:2005:VGS


Collomosse:2005:SST

REFERENCES


REFERENCES

Correa:2007:IDD

Csebfalvi:2008:EPR

Csebfalvi:2010:EPB

Csebfalvi:2013:CWB

Chaitanya:2019:ASS

Cao:2010:FMV
Cao:2016:TVA


Cornea:2007:CSP


Cordier:2011:SMS


Cuenca:2018:MMS


Casas:2013:IAP


Chen:2013:PHI

Cheng:2016:PHB


Chang:2010:ASM


Cirio:2012:WCN


Chevalier:2013:UCS


Claessen:2011:FLA


Cappers:2018:EME


Comba:2011:GEI

Joao Comba and Daniel Weiskopf. Guest Editor’s introduction: Special section on the Eurographics Symposium


REFERENCES

**Chuang:2009:HPC**

**Cheng:2007:DAO**

**Cui:2006:MDA**

**Chan:2008:VIV**

**Cao:2014:FFE**

**Chan:2019:VVB**
Cheng:2019:CND


Chen:2018:SSO


Chen:2008:IID

Caserta:2011:VSA


Chen:2015:UAM


Czerwinski:2012:VKS


Chen:2011:LHP


Cui:2008:GBE


Chai:2017:ASI


Chen:2017:EBS

[CZZ17b] Xiang Chen, Changxi Zheng, and Kun Zhou. Example-


REFERENCES

Dimara:2019:MAE

Dimara:2018:CMI

Demiralp:2014:LPK

Deines:2006:CVW
Dorling:2006:WWY


Dumont:2014:AAV


Dillard:2007:CSB


Dick:2011:DVI


Dabek:2017:GBA


Dork:2008:VCV

REFERENCES


REFERENCES


REFERENCES


DeFloriani:2016:MEC


DeFloriani:2016:EN


DeFloriani:2017:EN


DeFloriani:2017:EN


DeFloriani:2017:SJ


DeFloriani:2018:MECa


DeFloriani:2018:TBA

[De 18b] Leila De Floriani. 2017 TVCG Best Associate Editor Award and Best Reviewer Award. IEEE Transactions on Visualization and Computer Graphics, 25(1):2269, August 2018. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506.

DeFloriani:2018:EN


DeFloriani:2019:FNE


DeFloriani:2019:MEC


DeFloriani:2018:EN


Drettakis:2008:TSM


Drettakis:1996:SPI

Harish Doraiswamy, Nivan Ferreira, Theodoros Damoulas, Juliana Freire, and Claudio T. Silva. Using topological analysis to support event-guided exploration in

Debernardis:2014:TRH


DiBattista:2012:GEI


Dolg:2009:STF


Dick:2011:HMA


Dork:2010:VBL


Dollner:2002:GRS

REFERENCES


REFERENCES

2626 (print), 1941-0506 (electronic), 2160-9306. URL


REFERENCES

2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES

Dwyer:2008:ENU


Doraiswamy:2012:OSC


Doraiswamy:2013:CRG


Deng:2006:EFA


Doraiswamy:2013:EFI


Doncel:2007:ODS


deOliveira:2003:VDE

[dOL03] Maria Cristina Ferreira de Oliveira.

Diewald:2000:ADV


[DR08]


Draper:2008:WVW

Du:2007:FFG


[Du2007FFG]

[DPW+15]


Dasgupta:2015:BTP

[DRBS+12]


deRousiers:2012:RTR
Doerr:2007:ELC


Drumwright:2008:FSP


Dwyer:2013:ECT


Dick:2016:SFP


DeFloriani:2016:MEC


Lorenzo:2016:AVE


Duarte:2014:NNN


Dinkla:2017:SVA


Du:2017:CVV


Dietrich:2009:ETI

Carlos A. Dietrich, Carlos E. Scheidegger, John Schreiner, João L. D. Comba, Luciana P.

**Degener:2008:EVS**


**Dominitz:2010:TMO**


**Dunn:2017:WFV**


**Duffy:2015:GBV**


**DelBimbo:1995:SEV**

REFERENCES


Tim Dwyer and Yingcai Wu.

**[Dang:2010:SGE]**


**[Donikian:2006:ADI]**


**[Duke:2006:FGV]**


**[Dowling:2019:SDS]**


**[Dong:2016:IRT]**


**[Dykes:2010:RML]**

Jason Dykes, Jo Wood, and


REFERENCES


**Everts:2015:EBW**


**[EBB+15]**


**[Ebe00]**


**Ebert:2003:ENb**


**Ebert:2004:ENa**


**Ebert:2004:ENb**

REFERENCES

Ebert:2006:ENa


Ebert:2006:ENb


Ebert:2007:EEF


Ebert:2017:VTA


Everts:2009:DDH


Ellis:2006:EAC

Ellis:2007:TCR

Geoffrey Ellis and Alan Dix.

Elmqvist:2008:PII

Niklas Elmqvist, Pierre Dragicevic, and Jean-Daniel Fekete.

Elmqvist:2010:HAI

Niklas Elmqvist and Jean-Daniel Fekete.

Ebert:2010:MIO

David S. Ebert, John Dill, and David J. Kasik.

Evrard:2019:SRD

F. Evrard, F. Denner, and B. van Wachem.

Endert:2012:SIS

Alex Endert, Patrick Fiaux, and Chris North.
Semantic

**Elber:2009:ESS**


**EG09**

**Engel:2012:VSV**


**EGG+12**

**Ellsworth:2006:CVP**


**EHBA11**


**Etzmuss:2003:DPS**


**Eitz:2011:SBI**
Ersoy:2011:SBE


Eichelbaum:2013:LIT


Eick:2000:VDA


Erat:2018:DAH


Etiene:2014:VVR


Elber:1995:LAR

REFERENCES


[D. S. Ebert, C. J. Morris, P. Rheingans, and T. S. Yoo. Designing effective transfer functions for volume rendering from photographic volumes. *IEEE
Etienne:2012:TVI


Elmqquist:2010:MSF


Ehlke:2013:FGV


Edge:2018:BTA

[ERLW18] D. Edge, N. H. Riche, J. Lar-

[Ertl:2007:EMN]


[Ertl:2007:ENa]


[Ertl:2007:ENb]


[Ertl:2008:EN]


[Ertl:2009:EEN]


[Ertl:2009:EN]


[Ertl:2010:EEN]

REFERENCES


REFERENCES

2626 (print), 1941-0506 (electronic), 2160-9306.


Ewins:1998:MML


Farin:2012:SMT


Faure:1999:FIR


Fraedrich:2010:EHQ


Yoon:2007:RAC


Fu:2015:TIH

REFERENCES


[FC95] Lisa K. Forssell and Scott D. Cohen. Using line integral convolution for flow visualization: Curvilinear grids, variable-speed animation, and...


REFERENCES


Frey:2017:PDV


Felix:2018:TWC


Favelier:2019:PAC


Frisken-Gibson:1999:ULV


Francois:2009:IBM


Fougerolle:2005:BOI

REFERENCES


2626 (print), 1941-0506 (electronic), 2160-9306.

Federico:2017:SVA


Fink:2013:SAR


Fuchs:2014:ICS


Fuchs:2017:SRE

REFERENCES


[Flo17] Leila De Floriani. Message from the Editor-in-Chief. IEEE Transactions on Visualization and Computer Graph-
REFERENCES 253

[Floriani:2018:SJ]

[Fusiello:2004:ASM]

[Fouts:2007:TCH]

[Fouts:2012:APB]

[Fouts:2012:FVR]
REFERENCES

Freiler:2008:IVA


Fujishiro:1996:VDE


Ferstay:2013:VVV


Felix:2017:TIV


Fuchs:2008:PVC


Feng:2019:PPQ

REFERENCES


REFERENCES


REFERENCES


Frishman:2009:UGL  [FT09]

Feng:2013:CLS  [FT13]

Fang:2013:VNI  [FTB+13]

Froese:2013:ESD  [FTES13]

Fuchs:2013:VRC  [Fuc13]

Faloutsos:1997:DFF  [FvdPT97]
REFERENCES


REFERENCES


REFERENCES


**Gosink:2007:VIQ**


**Gosink:2008:QDV**


**Grave:2008:VGU**


**Grundhofer:2008:RTA**


**Gunther:2014:CMI**


[GCML06] Diansheng Guo, Jin Chen, Alan M. MacEachren, and

[KeLiao2006]


[Gleicher2013]


[Gao2017]


[Gain2001]

Sarah Goodwin, Jason Dykes, Sara Jones, Iain Dillingham, Graham Dove, Alison Duffy, Alexander Kachkaev, Aidan


**Gutenko:2017:AVA**


**Gyulassy:2007:TCD**


**Goodwin:2016:VMV**


**Gerry:2017:PMS**


**Ganuza:2014:SEI**

Gosink:2011:AMS


Glueck:2017:PCS


Gimenez:2018:MVA


Gratzl:2014:DEC


Gyulassy:2014:CMS


Guerra-Gomez:2013:VCT

[GGPPS13] John Alexis Guerra-Gomez, Michael L. Pack, Catherine Plaisant, and Ben Shneider-


REFERENCES


Guo:2015:RUG

Gramazio:2018:AAV

Gansner:2013:MSM

Gribble:2007:CGT

Grubert:2018:SCM
REFERENCES

Gorla:2003:TSS


Garth:2010:FME


Gomez:2017:FCG


Gad:2015:TDS


Guo:2019:VPA


Gandy:2015:GEI

M. Gandy, S. Julier, and

**Gunther:2014:FME**


**Gomez:2012:DSD**


REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES


Sylvia Glaber, Kai Lawonn, Thomas Hoffmann, Martin Skalej, and Bernhard Preim. Combined visualization of

**Gorg:2013:CCA**  

**Govindaraju:2006:FRC**  

**Gaffary:2017:AFS**  

**Gao:2013:VDM**  

**Gramazio:2017:CCD**  


REFERENCES


**Gyulassy:2007:ECM** [GNPH07] Attila Gyulassy, Vijay Natarajan, Valerio Pascucci, Peer-Timo Bremer, and Bernd Hamann. Efficient computation of Morse-


Grechkin:2014:DAE


Geng:2011:AHF


Gebhardt:2013:EPM


Guo:2016:ETV


[ Gu:2018:EQS ]


[GQM+18]

Grigoryan:2004:PBP


[GRS95]


[GR04]

John R. Goodall, Eric D. Ragan, Chad A. Steed, Joel W. Reed, G. David Richardson, Kelly M. T. Huffer, Robert A. Bridges, and Jason A. Laska.

[GRS+19]

**Gerrits:2017:GGS**


**Grottel:2007:VVA**


**Groth:2006:PAV**


**Gabbard:2008:UEA**


**Gotz:2014:DVA**


**Greunke:2016:TIV**

L. Greunke and A. Sadagic. Taking immersive VR leap in training of landing signal officers. *IEEE Transactions on Visualization and Com-

Gayle:2009:INH

Glocker:2015:RTR

Gal:2007:POS

Gregorski:2004:AET

Gross:1996:ETS

Gramazio:2014:RBV
Connor C. Gramazio, Karen B. Schloss, and David H. Laidlaw. The relation between
REFERENCES


REFERENCES


REFERENCES


**Guo:1995:MMS**


**Grevera:2000:OMF**


**Guo:2009:FMM**


**Georgii:2006:GSP**


**Gu:2011:THE**


**Garland:2013:GEI**

Michael Garland and Rui Wang. Guest Editors’ introduction: Special section
REFERENCES


REFERENCES


**Gudukbay:2002:SVD**


**Guo:2016:ELF**


**Gou:2011:TRP**


**Guo:2014:ODF**


**Guo:2014:ABS**


**Helgeland:2004:VVF**

Anders Helgeland and Oyvind Andreassen. Visualization of vector fields using seed LIC and volume rendering. *IEEE
References

Heer:2006:MSB


Heer:2006:SDP


He:2017:VCB


Harper:2018:CBD


Hadjewiger:2018:SEE


Hagen:1998:PSI

REFERENCES

Hagen:1999:EN

Hagen:2000:EN

Hagen:2003:ECF

Hartl:2016:EVH

Hossain:2011:THQ

Hanrahan:1995:MDW

Hansen:2016:SCV

Hansen:2018:VCA


Hart:2016:FCP


Hullman:2011:BIV


Haker:2000:CSP


Hausner:1997:MEL


Hahmann:2003:PSI

REFERENCES

Heer:2010:DLD


Hodgson:2013:CFA


Herling:2014:HQR


Herrera:2014:SRC


Howison:2012:HPV


Hagbi:2011:SRP

REFERENCES


REFERENCES


[Hall:2007:RNP] Peter M. Hall, John P. Collomosse, Yi-Zhe Song, Peiyi Shen, and Chuan Li.

**Hullman:2011:VRF**


**Healey:2012:IDN**


**Haouchine:2015:MRA**


**Hwa:2005:RTO**


**Hullman:2013:DUS**


**Hazarika:2019:CFC**

Subhashis Hazarika, Soumya Dutta, Han-Wei Shen, and Jen-Ping Chen. CoDDA: A flexible copula-based distribution driven analysis framework for large-scale multivariate data. *IEEE Transactions on Visualization and Com-
REFERENCES


REFERENCES

Harrison:2018:PVA

Hegarty:2010:VKA

Hermosilla:2017:PBV

Heiberg:2003:TDF

Henry:2006:MDR

Henderson:2010:OTU
Henderson:2011:EBA


Hollt:2012:SIV


Hu:2018:AHS


Henry:2007:NHV


Hinrichs:2016:SPU


Hofmann:2012:GTP

References


REFERENCES

[Huettenberger:2014:DSM]


[Hogan:2016:EIT]


[Hero:2014:VRC]


[Hakone:2017:PID]


[Hou:2017:KOB]

REFERENCES


Heinrich:2019:CPA


Hamann:1999:CCH


Hamann:1999:FPB


Ho:2009:IRM


Hachet:2010:GEI

[Hachet:2010:GEI] Martin Hachet and Ernst Kruijff. Guest Editor’s introduction: Special section

**Huang:2016:PMP**


**Hoang:2019:STB**


**Heimerl:2012:VCT**


**Haehn:2014:DEI**


**Ha:2012:IOC**


 REFERENCES

Healey:2008:VPM


Huang:2017:SSS


Habibi:2002:DPC


Hughes:2009:KJP


Huang:2018:AOW


Hristova:2018:TMG

[HLCB18] Hristina Hristova, Olivier Le Meur, Remi Cozot, and Kadi Bouatouch. Transformation of the multivariate generalized Gaussian distribution for...


[Hillaire:2012:DAR] Sebastien Hillaire, Anatole

Hadwiger:2008:IVE


Hernell:2010:LAO


Huang:2018:GTB


Hanson:1995:QFA


Hosssain:2010:EAA


Hauser:2001:TLV

Helwig Hauser, Lukas Mroz, Gian Italo Bischi, and M. Ed


REFERENCES

1126, August 2014. CO-DEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES

Hege:2004:GEI

Huang:2008:GSP

Huang:2013:IST

Helgeland:2007:VVV

Hollt:2018:CVG
REFERENCES

**Hua:2004:HBD**

**Hu:2007:IAR**

**Hou:2012:RDR**

**Hou:2013:ADW**

**Hullman:2019:PES**

**Hong:2006:PCA**

**Hou:2012:DBP**
Fei Hou, Yue Qi, and Hong


Steffen Hadlak, Heidrun Schumann, Clemens H. Cap, and Till Wollenberg. Support-


Haleh Hagh-Shenas, Sunghee Kim, Victoria Interrante, and

Hu:2019:CAD


Hauswiesner:2013:VTT


Han:2018:ERP


Hodlak:2011:SEL

REFERENCES


REFERENCES


Huron:2013:VS


Hlawatsch:2011:CSC


Hansen:2016:GEI


Heinrich:2009:CPC


Haroz:2012:HCL


Hough:2015:FPB


Hanel:2016:VQA

REFERENCES


[HYB+17] Kaimo Hu, Dong-Ming Yan, David Bommes, Pierre Alliez, and Bedrich Benes. Error-bounded and feature preserving surface remeshing with minimal angle improvement. *IEEE Transactions
REFERENCES


[Harrison:2014:RVC]

[Huang:2012:DPC]

[Huang:2013:CEF]

[Hu:2014:VPM]

[Hu:2019:SDD]

[Hsu:2013:MCA]
Wei-Hsien Hsu, Yubo Zhang, and Kwan-Liu Ma. A multi-criteria approach to camera
REFERENCES


References

Ihmsen:2014:IIS

Isaacs:2014:FVS

Itoh:2015:SPC

Isenberg:2013:HIV

Izadi:2014:KPE

Interrante:1997:CSS
REFERENCES


**Isenberg:2012:CLC**


**Ibrahim:2018:APS**


**Im:2005:MGS**


**Isenberg:2017:VOM**


**Ibanez:2001:VAT**


[IK15] Y. Itoh and G. Klinker. Light-field correction for spatial calibration of optical see-through

[Interrante:2014:MGC]


[IKLW14]

Igarashi:2015:EN


[IKT15]

Im:2013:GGP


[IML13]

Ingram:2009:GMM


[IMO09]

Iwai:2015:EDF


[IMS15]

Ivson:2018:CNV

P. Ivson, D. Nascimento, W. Celes, and S. D. Bar-

**Insley:2007:RVH**


**Islam:2007:VSA**


**Ip:2011:SAN**


**Ip:2012:HEV**


**Ibrahim:2018:SSN**


**Ivanov:2007:VHL**

REFERENCES


**Johnsen:2014:MRV**


**Jauregui:2014:TPH**


**Jeong:2009:SIS**


**Janicke:2009:VEC**


**Jones:2006:DFS**

REFERENCES

331

Janicke:2008:BAC

Johnson:2008:IVA

Janeh:2018:AGP

Joshi:2009:CSV

Ju:2014:RPT
REFERENCES


**Jansen:2013:IMV**


**Johnson:2011:CIR**


**Jianu:2009:EDF**


**Jallepalli:2018:TFQ**


**Javed:2013:SZM**

Jang:2012:TVD


Jobard:2002:LEA


Jenny:2012:ACM


Jang:2016:MVA


Johansson:2016:EPC


Jones:2010:DWC

Janicke:2016:IVP


Jackle:2016:TMP


Jeong:2007:IVV


Jonsson:2016:IEV


Jayaraman:2018:GCW


Johnson:2009:DDV


Jakobsen:2013:IVL

[JH13] Mikkel R. Jakobsen and

Jansen:2016:PIS


Jones:2019:OPR


Jia:2008:VSO


Janicke:2010:VGP


Jakobsen:2013:IVP


Jo:2014:LIV

Jaemin Jo, Jaeseok Huh, Jonghun Park, Bohyoung Kim, and Jinwook Seo. LiveGantt: Interactively visualizing a large manufacturing


REFERENCES

2626 (print), 1941-0506 (electronic), 2160-9306.


Jonsson:2012:HEI


Julier:2015:GEI

REFERENCES


[Joshi:2008:EVC] Alark Joshi, Xiaoning Qian, Donald Dione, Ketan Bulsara, Christopher Breuer, Al-

**Jalba:2007:ESR**


**Jianu:2014:HDG**


**Jerding:1998:IMT**


**Ji:2006:DVS**


**Jones:2013:PSE**


**Jackowski:2003:ADS**

Marcel Jackowski, Martin Satter, and Ardeshir Gosh-

**Ji:2019:VEN**


**Jeong:2010:IHL**


**Joshi:2008:NIT**


**Jang:2009:IVR**


**Jo:2019:DRM**

Jaemin Jo, Frederic Vernier, Pierre Dragicevic, and Jean-Daniel Fekete. A declarative rendering model for mul-
REFERENCES

Jalba:2013:FSL


Johnson:2005:SDF


Jarabo:2014:EAF


Jorissen:2005:DIP


Jaynes:2004:CBD


Janicke:2007:MVU


Jonsson:2017:CPM


Jianu:2010:VIQ


Jin:2009:CTS


Kong:2012:GOU


Kwatra:2007:TF

Klein:2018:ICV


Kahng:2018:AVE


Keefe:2008:SSC


Kasik:2012:BSW


Kaufman:1995:Eb


Kaufman:1996:Ea


Kaufman:1996:Eb

REFERENCES


[102x681] REFERENCES


[KBB+12]


[KBB+18]


[KBD+11]


[KBB+18]


[KBD+11]

Krone:2009:IVM


Karch:2018:VAI


Koch:2011:IIIV

Steffen Koch, Harald Bosch, Mark Giereth, and Thomas Ertl. Iterative integration of visual insights during scalable patent search and analysis.


Kosara:2006:PSI


Kok:2010:APR


Kratz:2013:ASP

A. Kratz, D. Baum, and I. Hotz. Anisotropic sampling of planar and two-manifold domains for texture generation and glyph distri-
Kim:2018:VNN

Krstajic:2011:CCD

Kohlmann:2007:LDV

Kappe:2019:EVW

Kilteni:2013:DIV

Kolesar:2017:FCC
Koren:2004:RLD


Kondo:2014:DET


Kim:2011:RRE


Karnick:2010:RVU

REFERENCES


REFERENCES

**Kwon:2008:TCM**


**Kindlmann:2016:DDS**


**Kim:2017:SGJ**


**Kyprianidis:2013:SAT**


**Kristensson:2009:EST**


**Koschier:2017:ADA**

[KDBB17] Dan Koschier, Crispin Deul, Magnus Brand, and Jan Bender. hp-adaptive discretization algorithm for signed distance field generation: An

**Kong:2016:MPV**


**Kieffer:2016:HHL**


**Keim:2016:DPO**


**Kim:2012:DET**


Koven:2019:LLD

Kumar:2006:VEC

Kim:2018:DBP

Kerzner:2019:FCV

Krishnan:2012:ATD

**Kohler:2013:SAV**


**Krivanek:2005:RCE**


**Kretschmer:2013:IPS**


**Kim:1998:FCD**


**Kang:2008:IER**


[Keim:2002:HPB] Daniel A. Keim, Ming C. Hao, and Umeshwar Dayal. Hi-
REFERENCES


[Sunghee Kim, Haleh Hagh-Shenas, and Victoria Interrante. Conveying shape with texture: Experimental investigations of texture’s effects}

**Kelly:2014:RPD**


**Kurzhals:2017:VAM**


**Knoll:2009:VRC**


**Kreiser:2018:DGE**


**Kadaba:2007:VCS**


**Kim:2013:QBS**

REFERENCES


Kincaid:2010:SFA


Kitajima:2017:SPP


Klehm:2014:PLM


Kim:2012:PBC


Karunanayaka:2018:NTT


Kronander:2012:EVE


Koch:2014:VDV


Kim:2018:DFA


Krekhover:2019:DNP


Kerracher:2015:TTT


Kwon:1998:MER

REFERENCES

Kniss:2002:MTF


Kato:2018:FRE


Kruger:2005:PSI


Kiyokawa:2011:GEI


Kwon:2016:VDV


Krishnamurthy:2009:PEN

Adarsh Krishnamurthy, Rahul Khardekar, Sara McMains, Kirk Haller, and Gershon

Khlebnikov:2011:CRT


Kim:2017:TEM


Krueger:2008:SEA

Arno Krueger, Christoph Kubisch, Bernhard Preim, and Gero Strauss. Sinus endoscopy — application of advanced GPU volume render-

Koniaris:2019:CAL


Khlebnikov:2013:NBV

Rostislav Khlebnikov, Bernhard Kainz, Markus Stein-


REFERENCES


Kooima:2009:PST


Kim:2009:GWB


Kotranza:2012:RTE


Kim:2010:MPF


Kim:2013:SHC


Kim:2007:ASR

REFERENCES


REFERENCES

Knight:1996:VUF


Klein:2010:SLC


Krajcevski:2016:CCM


Kehrer:2011:IVA


Kovacs:2010:RTC


Konyha:2006:IVA

REFERENCES

Krishnamurthy:2011:GAM


Kim:2010:RRA


Kumar:1996:IDL


Kwon:2016:SLR


Kim:2013:BMM


Keim:2004:GEI

REFERENCES


Koytek:2018:MBL


Kramida:2016:RVA


Kim:2018:DTO


Kasten:2011:TDT


Kumpf:2019:VAT


Keim:2006:GES

REFERENCES

Klosowski:2000:CPL


Klosowski:2000:PLP


Klosowski:2001:ECV


Kreuseler:2002:FAV


Kim:2014:GEI

REFERENCES

Kindlmann:2014:APV

Kroger:2018:VIM

Kappe:2016:FME

Kothur:2014:VAC

Kappe:2016:RVC

Kahler:2003:IVR
Ralf Kähler, Mark Simon, and


REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Kindlmann:2009:SVC


Kiyokawa:2018:P


Kruger:2006:CIC


Kim:2014:RIG

REFERENCES

[2626] (print), 1941-0506 (electronic), 2160-9306.

Kawai:2016:DRB


Kumpf:2018:VCC


Kahng:2019:GLU


Klacansky:2017:FEF


Krueger:2015:SEM


Knecht:2013:RRO

Martin Knecht, Christoph Traxler, Christoph Winkelhofer, and Michael Wimmer. Reflective and refractive objects for mixed reality. *IEEE
Kutulakos:1998:CFA


Kalaiah:2003:MRP


Kim:2006:SGE


Kim:2008:PVA


Kobourov:2005:NES


Kindlmann:2006:DTV

REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


**[Koehler:2011:VVU]** Christopher Koehler, Thomas Wischgoll, Haibo Dong, and Zachary Gaston. Vortex visualization in ultra low Reynolds number insect flight. *IEEE Transactions on Visualization and Com-
REFERENCES


Kindlmann:2000:SDV


Kim:2014:WSP


Kim:2001:EST


Konev:2014:RWA


Kwan:2018:PVD

Kuo:2006:NCA

Kim:2011:MEU

Krichenbauer:2018:ARV

Kim:2010:IVH

Keefe:2007:DAI

Kwok:2012:EOC

Kwok:2016:SET
Ko:2014:VIC


REFERENCES

[2626 (print), 1941-0506 (electronic), 2160-9306.]


[Law:2010:PPP]


[Lobo:2019:APB]


[Lind:2017:CCS]


[Li:2015:SAM]
REFERENCES


Latif:2019:VAP


Laffont:2013:RII


Li:2008:GOS


Labschutz:2016:JJT


Lafon:2013:HRD


Lindow:2011:VBE

REFERENCES

Lindow:2014:LES

Li:2018:SSD

Lee:2018:EUP

Lekschas:2018:HVE

Livingston:2009:GEI
Mark A. Livingston, Reinhold Behringer, Hirokazu Kato, and Tom Drummond. Guest Editors’ introduction: Special section on The International Symposium on Mixed


Laha:2014:EVS

Lincoln:2016:MPM

Liu:2018:VES

Law:2019:DHD

Li:2011:GSS


Ove Daae Lampe, Carlos Correa, Kwan-Liu Ma, and Helwig Hauser. Curve-centric

**Lin:2014:HLR**


**Lin:2014:HLR**


**Li:2014:SDV**


**Liu:2012:FVU**


REFERENCES


REFERENCES


[LFH07] Ying Li, Jiaxin L. Fu, and Nancy S. Pollard. Data-driven grasp synthesis using shape matching and task-


REFERENCES


LEX:2014:UVI


LAWOON:2016:OFB


LI:2019:FTM


Liao:2012:VSC


Lee:2003:FIM


Lam:2010:AFL


Lee:2006:GDL


Liu:2004:SRB


Lindstrom:2006:FEC


Losasso:2006:MBS


Lin:2012:SIS

REFERENCES


Lindholm:2014:BAR


Lefer:2004:HQA


Liu:2012:SIT


Lin:2008:MCM


Lai:2010:MDR

Liao:2012:ESP


Laine:2011:ESV


Lee:2009:RTD


Lee:2009:RTT


Langner:2019:MVC


Lee:2016:HDP


Laidlaw:2005:CVF


Lee:2017:VDV


Lee:2015:HQD


Lynch:2018:CAB

REFERENCES


REFERENCES


REFERENCES


Lin:2014:DRN

Lee:2017:SPI

Li:2006:TPS

Lindholm:2010:SCT

Lathen:2012:ATS

Liang:2019:FWO
Liu:2019:NPD


Li:2008:DPD


Law:2019:MIQ


Lavoue:2019:PET

REFERENCES

Lundström:2007:UVM


Li:2017:EST


Liu:2018:LRM


Linsen:2008:SEM


Lewiner:2004:AFD


Lam:2006:NRF

[LLW06] Ping-Man Lam, Chi-Sing Leung, and Tien-Tsin Wong.

[Li:2015:PHM]


[Li:2013:SMV]


[Lundstrom:2006:LHD]

Claes Lundstrom, Patric Ljung, and Anders Ynnerman. Local histograms for design of transfer functions in direct volume rendering.

[LM96]


[Liu:2016:UAA]


[Lin:2013:CAV]


Lu:2003:IIS


Liu:2017:VHD


Liu:2008:DCT

[LNS08] Zhicheng Liu, Nancy Nersessian, and John Stasko. Distributed cognition as a theoretical framework for infor-
REFERENCES


LeGoc:2019:DCD

Liu:2012:PBM

Lu:2015:PDI
Loorak:2016:TUV


Lee:2012:ASD


Lin:2011:AMD


Lee:2006:TIE


Liu:2014:TSA


Li:2013:WSM

REFERENCES


REFERENCES


REFERENCES


Lee:2009:VET

[LS09]

Lee:2013:ELS

[LS13b]

Liu:2010:MMV

[LS10]

Liu:2016:AAV

[LS16]

Lu:2016:EEM

[LSB+16]

Lee:2013:AIP
Luboschik:2008:PBL


Liu:2018:ATP


Lin:2009:GEI


Lloyd:2007:ISP


Livnat:1996:NOI


Lai:2015:DMH

REFERENCES

[Lyu:2018:WVA]

[Liu:2017:TBA]

[Lum:2003:UMI]

[Lex:2010:CAM]

[Lu:2012:GOC]

[Li:2013:TIR]
Liu:2009:SIA


Lex:2011:VMV


Lee:2013:PDV


Luo:2015:GCS


Laha:2012:EIV


Liu:2016:GEI

REFERENCES

1786–1787, ???? 2016. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Lungaro:2018:GAS


Li:2017:SCS


Liao:2018:AWB


Lin:2018:RFM


Lindstrom:1999:EMS


Lehmann:2010:DCS

Dirk J. Lehmann and Holger Theisel. Discontinuities in continuous scatter plots. *IEEE Transactions on Visual-
Lehmann:2011:FCP


Lehmann:2013:OSC


Lehmann:2016:OSP


Lehmann:2018:LAM


Losasso:2008:TWC


Lam:2018:BGT


REFERENCES

2006. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES

Lamboray:2005:DST


Lu:2014:CEV


Liu:2017:SVA


Wang:2018:VAF


Ljung:2006:FBV


Lee:1997:SDI

REFERENCES


REFERENCES


Li:2019:RNR


Lee:2010:FHQ


Lai:2016:NIF


Liu:2016:RDC


Liu:2016:OVA

Shixia Liu, Jialun Yin, Xiting Wang, Weiwei Cui, Kelei Cao, and Jian Pei. Online visual analytics of text streams. *IEEE Transactions on Visual-

REFERENCES


Lien:2013:MOF


Lai:2007:RFC


Liu:2013:CDL


Liu:2018:CPP


Liu:2016:KPR


Lu:2013:TEO


Liu:2013:MOF


Lai:2007:RFC


Liu:2013:CDL

Mohammed:2018:AVT


Miller:2011:FBC


Mayerich:2008:VCM


Mehra:2014:SLD


Maltz:2005:TPS


Mao:1996:SNR

REFERENCES


Max:1995:OMD


Max:1995:OSH


Mason:2001:GRS

REFERENCES

Mahovsky:2003:AJB


Magnus:2018:IDV


Meister:2018:PLO


Major:2019:GEU


Meyer:2012:VDA


Mehler:2006:SAN

Andrew Mehler, Yunfan Bao, Xin Li, Yue Wang, and Steven Skiena. Spatial analysis of...


Munteanu:2010:SIC


Martinet:2012:ISM


Marchesin:2010:VDS


McKeon:2009:HWI


Martin:2012:DIV


Ma:2006:AVS


Mosaliganti:2008:RCB

[MCS+08] Kishore Mosaliganti, Lee Cooper, Richard Sharp,


Mao:2007:SDV


Miranda:2017:UPC


Miranda:2019:SAM


Marchesin:2010:PPO


Mellado:2016:RSE


Meulemans:2017:SMG


Miao:2018:MVS

REFERENCES


REFERENCES

Mehra:2017:VVR


Meng:2011:VCR


Madhavan:2014:DWB


Moehring:2011:NIM


Muller:2009:BPE


Meka:2017:LUG

Abhimitra Meka, Gereon Fox, Michael Zollhofer, Chris-
REFERENCES


REFERENCES

Marai:2007:AJM

Muelder:2009:VAI

Merry:2014:MLS

Mccurdy:2019:FEI

Mendhurwar:2018:DPS

Mirhosseini:2019:IVC
Seyedkoosha Mirhosseini, Ievgeniia Gutenko, Sushant Ojal, Joseph Marino, and Arie Kaufman. Immersive virtual
REFERENCES


REFERENCES

<table>
<thead>
<tr>
<th>Reference</th>
<th>Authors</th>
<th>Title</th>
<th>Conference/Details</th>
</tr>
</thead>
</table>
REFERENCES

Mine:2013:KSW


Moser:2015:SES


Mindek:2018:VMP


McGuffin:2009:ITS


Mehta:2006:DVD


McLoughlin:2013:SME


Maciejewski:2013:AAS

[MJW+13] R. Maciejewski, Yun Jang, Insoo Woo, H. Jänicke, K. P. Gaither, and D. S. Ebert. Abstracing attribute space for transfer function exploration...


Marcus Magnor, Gordon Kindlmann, Charles Hansen, and Neb Duric. Reconstruction and visualization of plan-


Fabio Miranda, Lauro Lins, James T. Klosowski, and


2626 (print), 1941-0506 (electronic), 2160-9306.


Miao:2017:PMU


Moller:1997:EDF


Meyer:2009:MMS


Mueller:1998:SEA


Malik:2014:PSR

Abish Malik, Ross Maciejewski, Sherry Towers, Sean McCullough, and David S. Ebert. Proactive spatiotemporal resource allocation and predic-

Melek:2006:VFT


McGraw:2007:SDM


Mourning:2014:IMV


Muraki:2001:ACM


Meyer:2007:PSE


Meyerhenke:2018:DLG

Henning Meyerhenke, Martin Nollenburg, and Christian Schulz. Drawing large

Machado:2009:PBM

Machado:2010:CPB
REFERENCES

Moorhead:2003:GEI

Moreland:2013:SVP

Muhlbacher:2013:PBF

Munoz-Pandiella:2018:UWI

Muhlbacher:2014:OBB

Maciejewski:2013:ABC
R. Maciejewski, A. Pattath, Sungahn Ko, R. Hafen, W. S. Cleveland, and D. S. Ebert. Automated Box–Cox transformations for improved visual encoding. *IEEE Trans-
REFERENCES


REFERENCES

[Mandal:2000:DMB]

[Mehra:2015:WIW]

[Maciejewski:2010:VAA]

[MacEachren:2012:VSU]

[Meulemans:2013:KHS]

[Maguire:2012:TBG]
Maguire:2013:VCW


Myszkowski:2000:PBF


Majumder:2004:CNP


Ma:2008:PSE


MacQuarrie:2018:ETT

Medeiros:2018:GRM


Matsui:2017:DDA


Mori:2011:WVP


Machado:2014:EM


REFERENCES

**Musse:2001:HMR**


**Moller:2005:CIA**


**Mahyar:2014:SCC**


**Morgand:2017:MVG**


**Morgand:2018:GMS**


**Matute:2018:SBS**

Madsen:2016:TCS


Muhler:2010:MET


Moustakas:2007:SME


Moore:2012:EES


Munzner:2009:NPM


REFERENCES

Miksch:2013:GEI

Miller:2012:IMA

Maciejewski:2009:SFS

Mania:2006:EVI

Meyer:2008:PBS

Mirzargar:2014:CBG
Mahsa Mirzargar, Ross T.


REFERENCES


[Muelder:2016:VAC]

Ma:2015:FFM


Nusrat:2018:ECE


Nusrat:2018:CVB


Najork:1995:OHL


Nocaj:2012:OSR


Narang:2019:IUI

REFERENCES

Netzel:2014:CET

Niski:2007:TBL

Nagata:1997:MVP

Nimeroff:1996:IAI

Novotny:2010:EVR
REFERENCES

**Natarajan:2004:STD**


**Neyret:1998:MAR**


**Nobre:2019:LVM**


**Nadeem:2018:LSP**


**Novotny:2006:OPF**


**Durupınar:2016:PPC**

REFERENCES

Netzel:2017:EVS


Nguyen:2017:PGV


Nirmimesh:2007:GST


Nowrouzezahrai:2014:FNL


Nguyen:2018:RIT


Nielson:1995:TII

Nielson:1996:TII


Nielson:2003:MC


Nielson:2004:QSS


Nielson:1999:TCT


Noguera:2016:MVR


Navratil:2007:VCP

[NJB07] Paul Navratil, Jarrett Johnson, and Volker Bromm. Visualization of cosmological particle-based datasets. *IEEE Transactions on Visualization and Computer Graph-


Nah:2015:HHA


Nelson:2012:ESA


Nouanesengsy:2011:LBP


Nam:2013:TTI


Nadeem:2017:CSP


Nagao:2018:ADV

REFERENCES


[NQX+05] Ta Huynh Duy Nguyen, Tran Cong Thien Qui, Ke Xu, Adrian David Cheok, Sze Lee Teo, ZhiYing Zhou, Asitha Mallawarachchi, Shang Ping Lee, Wei Liu, Hui Siang Teo, Le Nam Thang, Yu Li,


[N NSF14] Niels Christian Nilsson, Stef-


[Nyer:2003:CVS]
REFERENCES

Noser:1999:RBI

Nooruddin:2003:SRP

Nordahl:2011:SSE

Novotny:2019:DVR

Noordmans:2000:SVR
REFERENCES


Nie:2013:CVS


Nie:2017:HPO


Nguyen:2016:SUS


Nguyen:2006:NVM


Oliveira:2011:GEI


ODonovan:2014:LLS

Obermaier:2016:VTA


Olivier:2018:WVP


Overby:2017:APD


Olsson:2015:MEV


Oeltze:2007:IVA


ODonovan:2012:AIP

Otsuka:2006:TNA


Oesterling:2013:VPC


Obermaier:2012:DMT

REFERENCES


Onoue:2016:MNE


Ogawa:2009:CDS


Obermaier:2012:MFV


Olano:2015:IGE


Ottley:2016:IBR

Ohlberger:1998:APO

Ohlberger:1999:APO

Ortega:2007:SDF

O'Brien:2010:GIV

Oskiper:2015:ARB

Ozer:2014:ADS
REFERENCES

DEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


[PA06] Frederic Payan and Marc Antonini. Mean square error approximation for wavelet-

**Paul:2008:CRS**


**Parulek:2013:FBS**


**Prachyabrued:2016:DEV**


**Pietriga:2010:RIP**


**Prouzeau:2017:EMU**


**Pretorius:2011:VPS**

REFERENCES


Patnaik:2019:IOH


Pollock:2012:RVW


Paulsen:2010:MRF


Packer:2013:VAS


Palmas:2014:MVV


[PDBG18] Tabitha C. Peck, My Doan,

Perin:2014:RBM


Perin:2014:RBM


Paczkowski:2019:PPB


Perlin:1995:RTR

REFERENCES

Phan:2018:COO


Plaisant:2008:PIB


Petrovic:2007:VWB


Prabhat:2008:CSD


Paiva:2011:IST

Peck:2009:ERT


Peck:2012:DEL


Punpongsanon:2017:ELV


Papadopoulos:2016:VVE


Peng:2012:MDV


Ponto:2013:PCI

Palomo:2016:VET


Patel:2008:SAI


Pilhofer:2012:CCU


Perer:2013:LUS


Petersch:2007:BFC


Ponchio:2008:IRD


Pothkow:2011:PUI

Kai Pothkow and Hans-Christian Hege. Positional uncertainty of isocontours:

[Pienta:2018:VIV]


[PH+18]


[PHF07]


[PIN15]


REFERENCES

2018. CODEN ITVGEA. ISSN 1077-2626.

**Prisacariu:2015:RTT**


**Peterka:2008:ADS**


**Palke:2011:ATF**


**Park:2006:DSI**

Sung W. Park, Lars Linsen, Oliver Kreylos, John D. Owens, and Bernd Hamann. Discrete sibson interpolation. *IEEE Transactions on Visualization and Com-
REFERENCES


Fernando V. Paulovich and Rosane Minghim. HiPP: a


Papaioannou:2010:RTV


Pujades:2019:VCR


Pares:2005:ADC


Pfaffelmoser:2013:VVG


Paulovich:2008:LSP


Prilepov:2013:CGB

Iuri Prilepov, Harald Obermaier, Eduard Deines, Christoph Garth, and Kenneth I. Joy. Cubic gradient-based material interfaces. *IEEE Transactions on Visualization and Com-
REFERENCES

Preim:2009:SVE

Puppo:2009:RS

Parker:1999:IRT

Petronetto:2010:MHH

Pu:2011:SBR

Purchase:2012:GDA
Panozzo:2011:ACQ


Prckovska:2011:FDH


Petkov:2012:IVR


Padilla:2017:EIB


Pajarola:2000:CPM

REFERENCES

Pajarola:2000:CCP


Perer:2006:BSF


Popescu:2010:GPC


Patel:2012:ACL


Pileggi:2012:SVP

REFERENCES

Patane:2009:MCA


Pajarola:2004:COS


Panse:2006:VGS


Popescu:2006:SBC


Pousman:2007:CIV


Pohl:2012:UPE

Paulovich:2010:TPM


Paiva:2015:ASI


Peng:2017:GAA


Pahins:2017:HSL


Philip:2015:DSG


Pajer:2017:WVW

Stephan Pajer, Marc Streit, Thomas Torsney-Weir, Florian Spechtenuafer, Torsten Möller, and Harald Piringer. WeightLifter: Visual weight space exploration for multi-criteria decision making. *IEEE Transactions on Visualization and Computer Graph-
Peer:2017:PVG

Pietroni:2010:AIM

Polvi:2018:HGI

Piringer:2009:MTA

Prendinger:2011:MSA
Pretorius:2006:VAM


Patil:2011:DCS


Perin:2013:SKV


Pagendarm:1995:CCC


Pineo:2012:DVO


Pilar:2013:RFP


Pjanić:2017:GPC

Petar Pjanić, Simon Willi,


**Palacios:2011:IVR**


**Pajarola:2012:GEI**


**Pan:2017:SRD**


**Qin:2014:CTF**


**Qi:2013:CCD**


**Qu:2007:VAA**

REFERENCES


Qin:1998:DCC


Qian:2009:FCR


Qiu:2007:LBV

Feng Qiu, Fang Xu, Zhe Fan, Neophytou Neophytos, Arie Kaufman, and Klaus Mueller. Lattice-based volumetric global illumination. *IEEE Transactions on Visualization and Computer Graph-
REFERENCES

ics, 13(6):1576–1583, November/December 2007. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.

Xuejie Qin and Yee-Hong Yang. Aura 3D tex-
tures. IEEE Transactions on Visualization and Com-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.

Ed Quigley, Yue Yu, Jing-
wei Huang, Winnie Lin, and Ronald Fedkiw. Real-
time interactive tree animation. IEEE Transactions on Visualization and Com-
puter Graphics, 24(5):1717–1727, May 2018. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306. URL https://www.computer.org/
csdl/trans/tg/2018/05/07836345-
abs.html.

Donghao Ren, Saleema Amer-
(1):61–70, 2017. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.

Allan Rocha, Usman Alim, Julio Daniel Silva, and Mario Costa Sousa. Decal-
(1):821–830, 2017. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.

Ganesh Ramanarayanan and Kavita Bala. Constrained texture synthesis via energy minimization. IEEE Transactions on Visualization and Com-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.

Johnny Rodgers and Lyn Bar-
tram. Exploring ambient and artistic visualization for residential energy use feedback. IEEE Transactions on Visualization and Com-
puter Graphics, 17(12):2489–2497, December 2011. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.
REFERENCES


[RBLW07] Stephan Rusdorf, Guido Brunnett, Mario Lorenz, and Tobias Winkler. Real-time interaction with a humanoid avatar in an immersive ta-


REFERENCES


Reichherzer:2018:NSM


Reinhard:2005:DRR


Riche:2010:UED


Ropinski:2012:UBA


Raviv:2001:IDR


Rheingans:2001:VIN

[RE01b] Penny Rheingans and David Ebert. Volume illustration: Nonphotorealistic rendering


REFERENCES

CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


[RGFL14] Diego Rivera-Gutierrez, Rick

Reh:2013:MNM


Rameau:2016:RTA


Ropinski:2009: MVV

Roberts:2016:SDU  

Ren:2014:IEI  

Ramachandra:2011:SPM  

Rahimian:2017:OCP  


REFERENCES

CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES


REFERENCES

Robertson:2009:EGC

Reach:2019:SEI

Roodaki:2017:SSV

Resch:2015:SSA

Raghuvanshi:2009:EAS

Robbins:1998:VSV
K. A. Robbins. Visualization of scientific video

**Rossignac:1999:ECC**


**Rossignac:2011:OBL**


**Rosenblum:2013:VRC**


**Roth:2013:EDT**


**Rosen:2012:SNP**


**Rhee:2017:MMR**

REFERENCES

Rosen:2008:HQH

Ray:1999:RCA

Roberts:2013:EGV

Reich:2012:ASS
Rappoport:1996:VPF


Ragan:2017:AHR


Rodgers:2014:DAP


Rungta:2016:SIS


Ren:2018:JGL

REFERENCES


**Rautek:2006:CV**


**Rushmeier:2005:GEI**


**Reniers:2008:CMC**


**Rodrigues:2018:NDP**


**Rathinavel:2018:EDF**


**Ribicic:2013:VAS**


**Ribicic:2012:SUS**

Hrvoje Ribicic, Juergen Waser,

Ren:2013:APG


Ren:2018:RTH


Reis:2008:HQR


Rossl:2004:RVD


Rhee:2007:LCT

REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


[SAM+05] Anthony Sherbondy, David Akers, Rachel Mackenzie, Robert Dougherty, and Brian Wandell. Exploring connectivity of the brain’s white matter with dynamic queries. IEEE Transactions on Visualization and Com-
REFERENCES


REFERENCES

**Shen:2004:FVM**


**Sohn:2006:TVC**


**Stinson:2014:FTA**


**Stoppel:2017:VPI**


**Shi:2018:MVN**


**Sbert:1997:ECR**


Sereda:2006:VBV


Schafhitzel:2011:VEI


Stevens:2017:HSE


Su:2015:DST


Sarikaya:2019:WDW


Schmalstieg:2013:VRT

Steffen:2008:ISI

Steinhurst:2008:RPM

Shi:2012:RVR

Smith:2006:FSS

Sorkine:2005:GAB

Sadowsky:2006:PTR


J. Stahnke, M. Dork, B. Muller, and A. Thom. Probing projections: Interaction techniques


Stroila:2008:CAR

Selver:2015:EBB

Sequin:2012:KST

Stylianou:2004:CLS

Schollmeyer:2014:DIR

Schollmeyer:2019:EAA
REFERENCES

DEN ITVGEA. ISSN 1077-2626.

Sanchez:2015:STT


Schindler:2012:LCS


Schindler:2009:PCS


Summet:2007:SEB


Saroul:2006:DPF


Steed:2016:AWE

REFERENCES


**Sedlmair:2012:RVA**


**Suma:2010:ECE**


**Sudarsky:1999:DSO**


**Shaffer:2005:MRM**


**Selver:2009:STF**


**Stitz:2016:TVM**

[S GAS16] Holger Stitz, Samuel Gratza, Wolfgang Aigner, and Marc Streit. ThermalPlot: Visualizing multi-attribute time-series data using a thermal...

**Schmidt:2013:VVA**


**Strobelt:2019:SVV**


**Sra:2018:OPG**


**Sharko:2008:VRA**


**Suter:2011:IMT**

Stitz:2019:KPB


Strobelt:2018:LTV


Samaraweera:2016:HTL


Silva:2006:GES


Seo:2000:CFA

REFERENCES

surface extraction in time-
varying fields. *IEEE Trans-
actions on Visualization and
107, April/June 2000. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306. URL
http://dlib.computer.org/
tg/books/tg2000/pdf/v0346.
pdf; http://www.computer.
org/tvcg/tg2000/v0346abs.
htm.

actions on Visualization and Computer Graphics*, 16(6):1139–1148, November/December 2010. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.

[Spillmann:2012:RIC] Jonas Spillmann and Matthias Harders. Robust interac-
tive collision handling be-
tween tools and thin volu-
metric objects. *IEEE Trans-
actions on Visualization and
Computer Graphics*, 18(8):
1241–1254, August 2012. CO-
DEN ITVGEA. ISSN 1077-
2626 (print), 1941-0506 (elec-
tronic), 2160-9306.

Dennis Hanson, Pradeep Dubey, Kurt Augustine, Daehyun Kim, Alan Kyker, Victor W. Lee, Anthony D. Nguyen, Larry Seiler, and Richard Robb. Mapping high-
REFERENCES


[SHV+18] Patric Schmitz, Julian Hildebrandt, Andre Calero Valdez, Leif Kobbelt, and Martina

---

**Selassie:2011:DEB**

**Sun:2011:RTB**

**Schlemmer:2007:MIA**

**Saad:2010:EVS**

**Schulz:2011:DSI**

**Schulz:2011:PBV**

**Schmitz:2018:YSM**

Scheepens:2016:VSA


Sillion:1995:UHA


Silva:2017:IVGa


Silva:2017:IVGb


Silva:2018:IVGa


Silva:2018:IVGb


[Silva:2019:IVG] [Sim07] [SJ06] [SJB10] [SJH+07]
Sagrista:2017:TAI


Swan:2007:EDJ


Sunkavalli:2012:VSC


Saha:2018:FOS


Stein:2018:BIP


Sun:2014:BRM

REFERENCES

Sagrista:2019:GSN

Schaefer:2007:MDC

Shen:1998:NLI

Sramek:1999:AFV

Sramek:2000:FRT

Schultz:2010:SGS
Thomas Schultz and Gordon L. Kindlmann. Superquadric glyphs for symmetric second-order tensors. IEEE Transactions on Visualization and Computer Graphics,

Schultz:2013:OBS


Sifakis:2015:GEI


Sander:2016:GEI


Schroeder:2016:VSA


Sacha:2018:SGE


Saket:2017:VDI

Bahador Saket, Hannah Kim, Eli T. Brown, and Alex Endert. Visualization by demonstration: An interaction paradigm for visual data exploration. *IEEE Transactions on Visualization and


REFERENCES


REFERENCES


REFERENCES

Sajadi:2009:CSM


Smit:2017:PAB


Song:2017:GIV


Schissler:2018:ACO


Sreng:2006:UVC


Servin:2011:HMW


REFERENCES


<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Authors</th>
<th>Journal</th>
<th>Volume</th>
<th>Issue</th>
<th>Pages</th>
<th>Date</th>
<th>CODEN</th>
<th>ISSN</th>
</tr>
</thead>
</table>

Simeone:2017:AUM


Sedlmair:2013:EGS


Stuvel:2017:TC


Satyanarayan:2017:VLG


Subramanian:1997:CDI


Singh:2010:RTR

REFERENCES

Skarbez:2017:PER


Saraiya:2005:IBM


Schulz:2013:DSV


Saraiya:2006:IBL


Schissler:2016:EHB


Strobelt:2009:DCT

Schops:2017:RTV

Sadlo:2007:EVL

Sherbrooke:1996:AMA


REFERENCES

1077-2626 (print), 1941-0506 (electronic), 2160-9306.


Su:2007:PEB


Spitz:2000:AAU


Seron:2002:ASH


Seron:2003:CAS

Satyanarayan:2016:RVS


Stapleton:2011:IGE


Schmitz:2011:ERO


Sterling:2019:AMR


Shih:2019:DGF


Sun:2007:FEF

REFERENCES


[SS08] Thomas Schultz and Hans-


[SSBC19] Nicole Sultanum, Devin Singh, Michael Brudno, and Fanny Chevalier. Doc- 


Shiravi:2012:SVS


Szafir:2016:LCS


Stopar:2019:SEM


Seiler:2014:DDS


Sato:1999:ARD


Selle:2009:RHR

Andrew Selle, Jonathan Su, Geoffrey Irving, and Ronald Fedkiw. Robust high-resolution cloth using parallelism, history-based col-

REFERENCES


REFERENCES


Stolte:2003:MVU


Spillmann:2013:ASW


Soni:2008:VPF


Sarvghad:2017:VDC


Solteszova:2012:PSS


Sauber:2006:MGA

Schultz:2007:TVB


Schultz:2010:CST


Stusak:2014:ASE


Sturzlinger:1998:RTT


Shin-Ting:2012:ICR


Sundquist:2003:DLI

REFERENCES

San-Vicente:2012:CMS  

Sewall:2011:VTR  

Skanberg:2016:RTM  

Scheidegger:2007:QCV  

Smit:2010:PDL  

Schneider:1998:EPC  


Schneider:2008:ICS


Skraba:2015:RBS


Shi:2014:LVL


Sun:2014:EVA

REFERENCES


REFERENCES


REFERENCES

Stapleton:2011:DED


Schroder:2015:IBR


Shen:2018:RTB


Sacha:2017:VID


Szymczak:2013:HSM


Shen:2018:SVE


**Termeer:2008:VMP**


**Thudt:2016:VMR**


**Teyseyre:2009:OSV**


**Tak:2013:ESS**

REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


Tierny:2012:IQR


Tchiboukdjian:2010:BMP


Tong:2016:VDS


Teran:2006:DSA


Turkay:2011:BDD


Tominski:2012:ISV

REFERENCES

Tierny:2018:TT

Takahashi:2009:AML

Talbot:2012:EMS

Tricoche:2011:VTS

Tierny:2009:LSV

Tuceryan:1995:CRP
REFERENCES


Matthew Tobiasz, Petra Isenberg, and Sheelagh Carpen-


REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

[Tory:2006:VTP]

[TKBH17]

[Tam:2017:AMH]

[Tricoche:2008:ICL]
REFERENCES


Tzeng:2005:ISA


Tan:2008:FRR


Tong:2017:GVD


Tory:2004:HFV


Tanahashi:2012:DCO


Talvas:2015:ACV


Tateosian:2010:TTG

[TMH+10] Laura Tateosian, Helena Mitasova, Brendan Harmon, Brent Fogleman, Katherine Weaver, and Russel Harmon.

**Terziman:2013:PMC**


**Tao:2013:UAS**


**Thomas:2011:LCS**


**Thomas:2013:DSS**


**Thomas:2014:MSD**


**Thomas:2011:SSF**

[TN11] Dilip Mathew Thomas and Vijay Natarajan. Symmetry in scalar field topol-
Tuttle:2010:PSS


Tan:2017:LBS


Tierny:2012:GTS


Tu:2007:VCH

REFERENCES


REFERENCES

Tan:2007:AAT


Tory:2007:SDC


Tanaka:2005:TOV


Teets:2010:UCF


Tsang:2010:EVS


Turban:2017:EVE

Laura Turban, Fabrice Urban, and Philippe Guillot. Extrafoveal video exten-
REFERENCES


Tao:2014:DFF


Torsney-Weir:2011:TPP


Tao:2016:VAP


Tong:2018:MLH


Takahashi:2006:OFA


Tong:2013:SIC


Vanegas:2009:VSU


vanAlmsick:2011:GBR


Varshney:2001:GEI


Vantzos:2017:FTF


Ventura:2014:GLM


Vasa:2016:EIM


VARS14

Vanegas:2009:VSU

[Var01]

[VAW+17]

[VAR+14]

[vAPP+11]
Vasa:2013:ECI

Vuillemot:2018:SVM

Volante:2016:EVH

Vaillant:2017:MCP

Volmer:2018:CPS

Vehlow:2016:VDH


Frank van Ham, Raghu Machiraju, Klaus Mueller,


Visell:2015:FPA


Vrotsou:2009:AIV


Vrotsou:2015:SMS


Viola:2005:IDF


VonLandesberger:2016:CLQ


VonLandesberger:2016:MVA


Volino:2006:RTA


Valette:2004:WBM


Valette:2004:WBP


Verma:2004:CFV


VanGelder:2009:UPA


REFERENCES


REFERENCES


vanWijk:2004:MSV


vanWalsum:1996:FEI


Viegas:2007:MSV


Valdez:2018:PAE


Wilkinson:2006:HDV


Wenger:2012:VAN

Stephan Wenger, Marco Ament, Stefan Guthe, Dirk Lorenz, Andreas Tillmann, Daniel Weiskopf, and Marcus Magnor. Visualization of astronomical nebulae via distributed multi-GPU


REFERENCES

Ahn:2014:TTN


Ware:2009:QTS


Wang:2018:VFD


Wu:2018:IOA


Wong:2005:DIB


Weigle:2008:CPB


REFERENCES


**Wang:2011:FMM**


**Wu:2013:VAD**


**Wu:2017:EGS**


**Wang:2018:ECP**


**Wang:2018:UAV**


<table>
<thead>
<tr>
<th>Reference</th>
<th>Authors</th>
<th>Title</th>
<th>Journal</th>
<th>Volume</th>
<th>Pages</th>
<th>Year</th>
</tr>
</thead>
</table>
2626 (print), 1941-0506 (electronic), 2160-9306.


[WDSC07] Jo Wood, Jason Dykes, Aidan Slingsby, and Keith Clarke. Interactive visual exploration of a large spatio-temporal

**Wu:2016:SHR**


**Weaver:2009:CVF**


**Weaver:2010:CFV**


**Weiskopf:2003:ICT**


**Wenger:2014:EFF**


**Wong:2006:GSV**

Wang:2018:PDA

Weissenbock:2019:DVL

Wald:2007:IIR

Wald:2005:FIR

Wong:2006:GGV

Wong:2012:SFV
Pak Chung Wong, Harlan Foote, Patrick Mackey,


Willi:2016:STP


Williams:2008:VCP


Weinstein:2008:IBC


Wang:2007:ILD

REFERENCES

2007. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


[WH09] Yu-Ping Wang and Shi-Min Hu. A new watermarking method for 3D models based on integral invari-


REFERENCES


REFERENCES

Wilkinson:2018:VBD


Wang:2008:IHR


Wald:2017:OCR


Willett:2017:EDR


Westermann:2001:TPS


Won:2013:USI


Wattenberg:2006:DSD

REFERENCES

Wang:2013:LSV

Wiemker:2013:RST

Wang:2007:CVC

Wood:2019:DEL

Wu:2017:DMV

Weiler:2003:HBV
Manfred Weiler, Martin Kraus, Markus Merz, and Thomas Ertl. Hardware-based view-independent cell


1077-2626 (print), 1941-0506 (electronic), 2160-9306.


Walny:2012:UPT


Wang:2012:RTP


Wang:2016:TFP


Wang:2012:RTP


Wang:2012:RTP

REFERENCES


[Wang:2008:LBR]

[Wang:2008:FVD]

[Wang:2018:SFD]

[Wang:2018:OMM]

[Wang:2017:GEI]

[Wang:2018:SFH]
Weiming Wang, Yong-Jin Liu, Jun Wu, Shengjing Tian, Charlie C. L. Wang, Ligang Liu, and Xiuping
REFERENCES


Wan:2010:EMI


Wu:2014:OVA


Wu:2010:TAE


Ward:2005:GEI


Wang:2008:SAV


Wang:2013:SDW

[Bing Wang and Klaus Mueller. SketchPadN-D: WYDIWYG sculpting and editing in high-dimensional space. IEEE Transactions on Visualiza-
REFERENCES

Wang:2013:EBE


Wang:2016:VCA


Wang:2018:SVE


Wyman:2019:IAT


Wongsuphasawat:2016:VEA


Woo:2012:FDD


REFERENCES

Wu:2016:MFV

Wu:2018:EVA

Williams:2011:AEQ

Wang:2013:ADP

Weyrich:2005:RDS

Wittenbrink:1996:GVU
Craig M. Wittenbrink, Alex T. Pang, and Suresh K. Lodha.


Yingcai Wu and Huamin Qu. Interactive transfer function

**Wang:2007:SBB**


**Wei:2018:TSF**


**Whited:2011:BMD**


**Waser:2011:NRC**


**Wagner:2010:RTD**


**Wilde:2019:RSF**

Thomas Wilde, Christian Rossi, and Holger Theisel. Recirculation surfaces for flow


[Wang:2011:BCF] Bei Wang, Brian Summa, Va-
 REFERENCES

642


REFERENCES


REFERENCES


REFERENCES


REFERENCES

Wang:2018:TRT

Wang:2019:SAF

Wang:2013:MES

Wang:2017:SDR

Wu:2008:HTA
REFERENCES

ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES


Wyman:2019:GEI


Wang:2014:VES


Wang:2008:IDT


Wu:2012:VFU


Wei:2015:BNF


Wen:2008:EUD

Zhen Wen and Michelle Zhou. Evaluating the use of data

[WZK12] 

[WZC+15] 

[WZQK04] 

[WZvdW13] 
Zuchao Wang, Junping Zhang, and Huub van de Wetering. Visual traffic jam analysis based on trajectory data. *IEEE Transactions on Visualization and Com-
REFERENCES


[Wang:2005:CTM]


[Xu:2009:ACA]


[Xie:2007:EIV] Xuexiang Xie, Ying He, Feng Tian, Hock-Soon Seah,
REFERENCES


REFERENCES


Dehui Xiang, Jie Tian, Fei Yang, Qi Yang, Xing Zhang, Qingde Li, and Xin Liu. Skeleton cuts — an efficient seg-


REFERENCES


[YaKSJ07] Ji Soo Yi, Youn ah Kang,

**Yang:2018:CAC**


**Yu:2019:PDH**


**Yao:2012:RBL**

Chih-Yuan Yao, Ming-Te Chi, Tong-Yee Lee, and Tao Ju. Region-based line field design using harmonic functions.

**Yuan:2012:IGL**


**Yao:2014:LRR**


Yang:2016:ECI


Yang:2019:ODF


Yoghourdjian:2018:GTI


Yalcin:2018:KRE


Yu:2012:ESA


Yu:2016:CEE

Yagel:1995:GVR


Yu:2001:EOR


Yu:2018:PTE


Yuan:2019:TUD


Yang:2013:PBD


Yuan:2009:SPP

Yin:2019:SAG

Yeh:2017:IHR

Yang:2008:TLF

Yan:2008:SDU
Han-Bing Yan, Shimin Hu, Ralph R. Martin, and Yong-Liang Yang. Shape deformation using a skeleton to drive simplex transformations. *IEEE Transactions on Visualization and Computer Graphics*, 14(3):693–706, May/June 2008. CODEN ITVGEA. ISSN 1077-
Yang:2019:CJV


Yang:2007:VRD


Yeh:2015:CHM


Yang:2008:OSP


Kwon:2012:SSS


Yeo:1995:VRD

Yoon:2006:MLB

Yoon:2012:VPB

Young:2019:ITR

Yu:2014:CAP
Yeh:2012:SED


Yeh:2011:TBM


Yang:2012:VOM


Yu:2012:RBR


Yang:2013:PVE


Yang:2017:PFS

REFERENCES


REFERENCES

2626 (print), 1941-0506 (electronic), 2160-9306.

Yang:2017:SAS


Ye:2017:MEH


Yao:1995:HSC


Yadav:2018:MDB


Yadav:2019:RHF


Yuan:2013:DPM

Xiaoru Yuan, Donghao Ren, Zuchao Wang, and Cong Guo. Dimension projection

Yemez:2003:MRT

Yu:2010:FDT

Yang:2017:BHB

Yu:2017:VWB

Yoon:2005:QVC
REFERENCES

Song:2007:DPS


Yeh:2013:DSG


Yoo:2012:TIM


Yan:2004:MSH


Yue:2019:BIV


Yngve:2002:RCI

[YT02] Gary Yngve and Greg Turk. Robust creation of implicit surfaces from polygo-


Yan:2006:MPM


Yang:2016:FIO
Zagajac:1996:FME


Zheng:2011:IFC


Zhao:2006:LCP


zuBerge:2014:PBF


Zinsmaier:2012:ILD


Zhao:2017:VSE

Henan Zhao, Garnett W. Bryant, Wesley Griffin, Judith E. Terrill, and Jian Chen. Validation of SplitVectors encoding for quantitative visualization of large-magnitude-range vector fields. *IEEE
REFERENCES


[ZCCB12] Jian Zhao, Fanny Chevalier, Christopher Collins, and Ravin Balakrishnan. Fa-
Zhao:2013:IEI


Zhao:2013:IEI


Zhao:2013:IEI


Zhao:2013:IEI


Zhao:2013:IEI


Zhang:2019:SDF


Zhang:2019:SDF


REFERENCES

Zhao:2018:IDC

Zheng:2008:IVD

Zeng:2014:VMP

Zheng:2011:BNF

Zhang:2017:GMD
REFERENCES


ZHOU:2011:DPO

ZHAO:2018:SHA

ZHU:2018:DDA

ZHANG:2014:PPE

ZHANG:2007:SDH

ZHANG:2014:MHA

ZHAO:2018:LSM
Lingyun Zhao, Miles Hansard, and Andrea Cavallaro. Lay-

**Zhao:2007:VSH**


**Zhang:2012:EEC**


**Zou:2011:APG**


**Zou:2009:IGS**


**Zhang:2013:DCA**

Muyang Zhang, Jin Huang, Xinguo Liu, and Hujun Bao. A divide-and-conquer approach to quad remeshing.

Zollmann:2014:FAR


Zhou:2016:SLA


Zhu:2005:URA


Zhang:2007:ITF


Zhu:2005:URA


Zhang:2011:RTS


Caroline Ziemkiewicz and

Ziemkiewicz:2010:LAP


Zhang:2012:SCM


Zhang:2014:SCD


Zimmer:2014:ZRF


Zenner:2017:SWS


Ziegler:2007:FHS

Remo Ziegler, Peter Kaufmann, and Markus Gross. A framework for holographic scene representation and image synthesis. *IEEE Transactions on Visualization and
REFERENCES


Zigelman:2002:TMU


Zibrek:2018:ERA


Zhao:2019:EMD


Zhang:2014:DDS

REFERENCES

(9):1, September 2014. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Zheng:2016:EIR


Zhang:2018:DTR


Zhang:2017:QVI

Yifan Zhang and Ross Maciejewski. Quantifying the visual impact of classification boundaries in choropleth maps. IEEE Transactions on...


Zheng:2005:TLT


Zhang:2004:NPM


Zwicker:2002:ES


Zhang:2011:OPR


Zhao:2018:BVE

Zhao:2013:APM

Zhao:2018:APM

Zhao:2013:APM

Zhao:2013:APM

Zhang:2016:GBC

Zhang:2016:GBC

Zhou:2007:TSD

Zhou:2007:TSD

Zhou:1999:ESV

Zhou:1999:ESV

Zhou:2009:ATF

Zhou:2009:ATF

Zheng:2012:DSS
REFERENCES


Zafeiriou:2005:BRW


Zhang:2017:CPS


Zheng:2013:PHS


Zinke:2007:LSF


Zhou:2018:IPP


Zhang:2013:FWI


Zhang:2019:MMA


Zhang:2014:VDM


Zhang:2017:PPB


Zhang:2012:DSM


Zhang:2013:PSP


Zhang:2015:VMD

[Hunyan Zhang, Chunlin Wu, Juyong Zhang, and Jiannong Deng. Variational mesh denoising using total variation and piecewise constant function space. *IEEE Transactions on Visualiza-
REFERENCES

Zhang:2018:MRT

Zheng:2010:VVV

Zhang:2009:ATA

Zhang:2014:VAP

Zhou:2008:VDM

Zhang:2011:IMC
REFERENCES


REFERENCES