A Complete Bibliography of Publications in *IEEE Transactions on Visualization and Computer Graphics*

Nelson H. F. Beebe  
University of Utah  
Department of Mathematics, 110 LCB  
155 S 1400 E RM 233  
Salt Lake City, UT 84112-0090  
USA  
Tel: +1 801 581 5254  
FAX: +1 801 581 4148  
E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)  
WWW URL: http://www.math.utah.edu/~beebe/  
02 February 2019  
Version 1.76

**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, BBIa09, BHSH15, CKW+12, DNP07, DHM13b, DMC15, GRT17, GJR+14, JDL09, LKJ+05, LWS+17, LRN96, LLO04, LKR+18, LLCD11, LCS+12, LFR03, MSA17, NHYY18, PQMCR17, PGT+08, PMW13, QCT13, RKG+11, RF11, SZB+09, SHM+07, SMN12, SWCR15, SS13b, TWH505, TKAM06, TIK15, WWYS04, WLL+05, WTL+09, Won16, 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, DDW14, 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, KKKW05, LYY+16a, LSO7a, LH03, LDH09, LKL+15, LKR+18, LDN11, LJZ12, LL05, LY06, LB17, LGS12, LOD16, LSM03, MS08, MWSJ14, MW99, MCHM10, MAST16, MCG12, MH10, MY14, MKJ06, MDS16, MES+11, MWC+12, NWHWD16, NB95,
NQX+05, NHYY18, OA11, dJOBNM17, OH06, PBO14, PK08, PLW11, PLW12, PJ03, PZ07, PH07, PUNI11, PGI17, QY07, QC1+09, RSBB17. 3
[RHZN11, RT12, RKZZ19, SK16a, SKYS14, SP+14, SPBB96, SW97, SRW+16, SGJM18, SKW+11, SW17, SW17, TKTN09, TSL+13, TNT17, TMWS13, TC09b, TL+12, TKAM06, TLC+10, VCP08, VAB12, VW12, VAs16, WH09, WWC+14, WM18, WTL+09, WQZ+18, WB08, WSE07, WFG+19, WXY17, WCB+12, WLDW11, YOS13, YPRI17, YLSL11, YSI+10, YEII12, YEII16, ZTP05, ZTZ17, ZPP05, ZCFL15, vLBB16, zBBKN14]. 360
[LXRY18, MS18a, ZLK+18]. 4
[BB09, BPM+13, CTGH13, CFHH09, HDJ05, INCB18, KGP+13, LHC16, ZH07, ZWR14, vPBB+10, vPBB+11]. 6 [GL17]. 8
[HDJ05]. 2
[BJK+16, SB17]. 6 [RPAC17].

\forall N \in \mathbb{N}_0 \text{ } f: R^3 \rightarrow R^2 \text{ } \mathbb{S}[C^+16]. \text{ } hp
[NK06, KDBB17]. \text{ } K
[Zha14, CK10, KHM+98, VPF15]. \text{ } k^+[VPF15]. \text{ } L_0
[GXW+18a, GXW+18b, SSW18]. \text{ } N
[IMR01, OHWS13]. \nu [Nie04]. \text{ } p [ZK14a]. \text{ } R
[FGF+05]. \text{ } \sqrt{3} [WQS07]. \text{ } \geq [OBLN17]. \text{ } Z
[KYK11, WHL16]. \text{ } || [BJK+16].

- Clustering [BBD+11]. - D [MS08].
- dimensional [ZWR14, IMR01]. - DOF [GL17, TIK15]. - DOFs [KHM+98].
- Functions [FGF+05]. - Nearest [CK10].
- Partition [ZK14a]. - Quaternion [Nie04].
- Subdivision-Based [WQS07]. - Test [KYK11].

1 [ZCD19]. 1.5D [SWW+15]. 11 [RPHEI08].
1115 [CWDH09]. 15th [KHE09].
2 [CD19]. 2000 [Var01]. 2005
[CLS07, SGR06, SW06]. 2008
[CR08, EDF08]. 2009 [An09e, An09d].
2010 [An09c, An09d]. 2011
[An14e, An14f, An14g, BHTY15, JLS15]. 2015
[An15c, An16b, An16c, LST+16, WLY17]. 2016
[An16d, An16e, Dil17, Ebei17, Mere17, Ota17]. 2017
[DS17a, De 18b, Dw17, Han18, Hee18]. 2018
[An19a, BKL18, Car19, DS18a, Ymm19].
2nd [KBB+18].

3D [PKMR15]. 3DCT [AHRG10].
6 [BDF16]. 6-DoF [BDF16].
7DOF [CLW18].

Abstract [BM13, CL06, MHD+18, PTC10, SPL+13]. Abstracting [MJW+13]. Abstraction [AAWF17, CCM+14, CG07, CWRY06, EBB+15, JER16, KLC09, KM+13, LWCC18, SMMR06, VI18, ZMT+19].
Abstractocyte [MAAB+18]. ABySS [NJBJ09]. ABySS-Explorer [NJBJ09]. Accelerated [BC12, KMH11, LM05, MK09, PSR17, QMK+06, SH00b, FM07]. Accelerating [LCDP13]. Acceleration [KRHH11, LQX14, RGC+14].
Acceptability [KLD+09]. Accessibility [KKMS11, SR00]. Accessible [CKLL09, KMKY10, eYL07]. Accessory
[WK14]. Accommodation [Kra16].
Accrual [MDL+19]. Accumulation [MDL+19]. Accuracy [GBP19, HV00, LB03, MKW07, SCKR08, WMS98].
Accuracy-Conserving [SCKR08].

Accurate [AT05, AGDJ10, BES12, BN12, DWB⁺06, FH16, GKT⁺08, GBP12, HSSK16, HR11, LDW⁺15, MCP⁺06, MNKW07, NLKH12, RNL09, SSIF09, SCYW16, Vis15, WHM14, WHL16]. Achieving [Ano10d, Ano11d, Ano13d, Ano13f, Ano14e, Ano14g, Ano14f, Ano16c, Bil13, Bee17, Hee18, Sch13, Ynn19].

Achievement [PMvWC05, ACM [BvdP12, BDC17, CLS07, GW13, HK10, KS14a, KPG12, KL14b, LS06, MY14, Ota17, SK16a, SK15, SW17, TL11, WLW17]. ACM/Eurographics [Ota17].

Acoustic [ACTM12, FM04, MAST16, MDHB⁺07, SLM18]. Acoustics [DBM⁺06]. Acquired [BSS⁺08, JNC⁺15, MI13, WCR⁺11].


ActiviTree [VJC09]. Activity-Centered [VJC09]. Actuation [KJH⁺18]. Acuity [PK13]. Acuity-Driven [PK13]. AD [CLT⁺08]. AD-Frustum [CLT⁺08]. ADAPT [KMSB14].

Adaptation [ANR⁺18, Bac07, HDJ05]. Adaptive [BT13, CLCQ12, CL18, CZZ17a, CLT⁺08, DK11a, DiC14, DWB⁺06, EDF11, F12a, GSA⁺09, GABJ08, GSDJ04, GB08b, Jen12, KSH03, KL07, KL14a, KNO15, KDBB17, LPPK12, LPLT11, LPPQ14, MS08, MDS⁺18, NW10, NOB16, OR98, OR99, PBPP11, PMvWC05, RNL09, RLNN11, STH13, SMRL09, TSLR07, WWW⁺19, WL16, WSC⁺95, WPB⁺11, XESV97, XA09, YL08, ZG12, ZHZ15, ZPS04, Zhu05].

Alias [SK99], Alien-Free [SK99], Aliased [SF19]. Aliasing [CMFL16, MT05].

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

AllBoard [DSC+16]. Allocation [HLG+14, MMT+14]. Almost [PTC10].

along [WM18]. Alpha [WM19].


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]. Analyogy [RM15, SVK+07].

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

Analysis [AHSS14, wAPS14, AHK+17, AAMH13, AHRG10, AAH+13, AAGF18, AAGS19, ABC+19, ASG15, BSS+13, BMJK09, BRT12, BBD+11, BE18, BKW16, BKL+11, BLM96, BMLC19, BMWM06, BAAK+13, BPB14, BCB10, BAF+13, Bon98, BPM+13, BISM14, BNTM16, BWT+11, BDW+08, CGSQ11, CSL+16, CLG16, CM10, CD19, CZZ17b, CHW+18, CGJM19, CWQ+07, CDL+16, CRT04, CDK+17, DVP+18, DLW+17, DuVH+19, DSG+17, DFD+14, DTW+15, DCK+12, DS16b, DCH+17, DB07, Eic00, EJR+14, FPB17, FCZ15, FMH08, FHX+09, FZCQ17, GFG+14, GKL+13, GMS+07, GMD13, GSL+17, GJC+17, GGA+11, GHL18, GLG+13, GRVE07, GQM+18, GXY12, GXZ+18, GJG+19, GWK12, HSCW13, HBG11, HEFR18, HDS19, HMSA08, HTP+08, HK+19, HV00, HMZ+14, HPU+18, HLG+14, HZ13, HOGJ13, JFSK16, JBMS09, JCG08, KPHH12, aKGS11, KBE+18, KMDH11, KH13, KHS+19, KJW+18, KCS+16, KOJL+14, KLG+16, KBGE11, KJW+14].

Analysis [KMG+06, KBH06, KFS+19, KG+12, KRRW19, KCPS08, Lac96, LSSB12, LBS13, LTC18, LBW19, LS13b, LSPS10, LGYG12, MHS07, MEV+14, MS04, MKN+07, MGKH09, MGJ+10, MBL+06, MGB+19, MMDP10, MBH+12, MHB+07, MGMO9, MZC+16, NMGK17, NDR96, OJ15, OBJ16, OSSK12, OJCP16, ODH+07, OHWS13, PVF13, PYHZ14, PH11, POM+09, PV06, PBCR11, QCX+07, RESC16, RBS+18, RS12, RAL+17, RWF+13, RML2, RFLL18, RK+16, RGC+14, RB18, SZS+17, SKB+18, SPS06, SJH+17, SCT+10, STM17, SHVV16, SFB+12, SHM+07, SGB13, SF14, SK13, SHB+14, SW13, SOL+13, SMER06, SYS+06, SLK+17b, SR00, SS18, SJJ+18b, STH02, SSL+12, SGPR18, SWL+14, TK17, TKW08, TFH11, TLLH12, TKBH17, USKD12, VP04a, WSH+19, WZvdW13, WLSL17, WLS+19, WK06, Wea10, Wen14].

Analysis [WGS+13, WG16, WMA+16, WPS+16, WCQ+09, WLY+14, WPZ+16, XYC+18, XWW+13, YSZ04, YRWG13,
Appearance-Based [SM+11]. Application
[BTB+04, BGM+17, DMR04, GGA+11, HLRC+12, HFG+12, KKPS08, LLBS17, LK09b, LRF+11, MTB17, OMD+12, PFP+11, PM08, PNML08, PPM+11, STS10, SD11, SGM08, YNYH06, ZWA+13].

Applications
[AB01, BI12, BSO+12, BJK+16, CCKS19, COCS03, CSM07, DFR10, GXH+13, GGT07, GMM05, Guo17, Hub95, ISC07, JKJTM06, JBS06, Keo00, LLT04, MGPH06, MK13c, NTS11, QMK06, RF11, RSD+13, SJL+18, SLA+09, SXM17, SWC+08, SK13, Ste98, WGS07b, WDC08, XXM19a, YL16, YML+17, YXM15].

Applied
[Kin10, SCT06, dLVvL06, vAPP+11]. Applying
[CLB13, HSTD18, SKK+14, TFO09]. Approach
[ADWK+17, AAGS19, BMTD05, BMA+19, BJK+16, BW01, BM17, CBL07, CCB11, CHW+18, CGUM19, CGH+19, CXM19, CSWP18, DC17, DGW11, DDB10, DSC+08, DCKY02, FM12a, FGH+09, FBS05, GNP11, GIK+07, GNP+06, GBH08, HBJP12, HM95, HBW06, HM13, HNR+06, HZM+16, KHA12, KLYE13, KS02, KTE15, KGZ+12, KY06, KCM18, LBS13, LVRH07, LAK+11, LT18, LXC+17, LLZ+16, LSPW12, MY96, MHR+10, MHR+11, MB19, NR18, NSL19, OJ15, OH06, PBN+13, PSM15, PSF09, PGL+12, PRS17, RKK16, RE14, RFL18, S06, S08, S16, SAS16, SKU+12, SPB08, SC15, SA19, SSB19, TMWS13, TWSS16, TLM05, VFR13, WAM+19, WM08, WGS18, WFC+18, WCC+18, WASQ18, WGSY19, WQZ+18, WBH04, XCH+14, XM17, ZHF12, ZHLB13, ZGM18, vEHBV16, WBD14]. Approaches
[CK05a, FHKM17, FTES13, HB13, JAAL18, LD11b, MKT+18]. Approaching
[HTR19, HQ07, JWD+14, KMDZ10, RMCW19, TFO09, Wan11, Wil12]. Approximating
[HTR19, HTF97, JSG03]. Approximation
[BYA15, CGL+17, GGGZ+18, LLZM11, PA06, RKSH11, SSOIT05, WXC+08]. Approximations
[SG96, HIJ19a, HJW99b, KH01, LS17, WBBH04]. ARbis
[HJ+18]. Arbitrarily
[PHF07]. Arbitrary
[BWW+12, HB03, KLS+18, LLF08, LTW08, LB+08, LWH+04, NPPZ12, RNK+15, RE14, VBP+11, WDC08, XXS13, ZC06]. Architectural
[SYYC11]. Architecture
[ARB07, BWW+12, BM+07, BM+08, CGC+11, CFHH09, FH07, HKC+12, LLW15, MB03, MGPH06, MFS+09, NKP+15, PTB09, SRH16, S95, SLF+12, Wal12, ZPS04, LLLN+14]. Architectures
[HQQ12, RPS19, SC09, SVLF10]. Area
[CDK04, LS17, LDN11, NSZ+17, RSF14, SNM16, TGS11, Wil12, XHL18, ZSG+13]. Area-Based
[LDN11]. Area-Preservation
[ZSG+13]. Area-Preserving
[TGS11]. Area-Proportional
[RSF14, Wil12]. Areas
[ESI18, MNN+19]. Arithmetic
[LQXL14]. Arithmetic-Based
[LQXL14]. Arm
[TAK+05]. Arrangements
[GNMC+16, MSH14, SDMT16]. Array
[TKTN09]. Arrays
[LIN14]. Arrive
[GGZL16]. Art
[Elb95, Elb98, KCW13, NXQ+05, SPL+13, SEH08, VY14, XZZ+17, ZLP+06]. Arterial
[IPD+07]. Artery
[BGP+11, MSD+08, TBB+07]. Arthrodial
[MGL07]. Arthroscopy
[STH13]. Articulated
[Fau99, KMT14, KBH+10, KWC+10, RLNN11, TFO06]. Artifact
[AHR+11, MSH14]. Artifacts
[CMS06]. Artistic
[CM11, CR05, KCW13, RB11, YF14].
**Automatic** [AMJ+12, AT16, BKM13, CCM11, DLF+09, ED06, FXG12, GLvP+12, HLB+18, IK95, JHW+14, KGP+13, KWS+14, LLL+12, MHS07, MIO+15, PPT+11, RNK+15, SRM0W11, SWF+16, TW18, VAB12, Won16, ZT09, WHZ+18].

**Automating** [Koo08]. **Autonomous** [LSK+18]. **Autoregressive** [LFA+16].

**Autostereoscopic** [LDN11, MT05, PKS+08, YHLJ08]. **Available** [BVW+07]. **Avatar** [BPS13, JAO+14, RBLW07, WGR+18].

**Avatars** [Bai13, CK16, JAO+14, KPBL16, LBE+14, SSS13]. **Average** [GCN13, WC13]. **Averaging** [GBP+13].

**Aviation** [CB15]. **Avoid** [DWA10]. **Avoidance** [BOP15, LCNG14, LKM+18].

**Award** [Ano14d, Ano14e, Lin14c, Ano10c, Ano10d, Ano11c, Ano11d, Ano13c, Ano13e, Ano13d, Ano13f, Ano14g, Ano15c, Ano16b, Ano16c, Ano16d, Ano16e, Bil13, Car19, De 18b, Dil17, Ebe17, Fuc13, Han18, Hee18, Meh17, Ros13, Sch13, Ynn19].

**Aware** [AZC+12, BYA15, BIBM18, BDSW13, BL07, CL18, CQC+08, CBL07, CZC+15, CLB+16, DZMQ16, DWK+16, HM10, JFZ+18, LLY+13, LJJH14, LLZ+16, LSV+18, MLKS18, MLMP18, NN11a, NN11b, OSS+17, PRH10, RDB+12, SCOIT05, TLD+12, VF13, WCC+18, WLZM10, YXG+13, Yan18, YEI12, YLG+14, YEI16, Zha14, ZJX+15, WWZ+19]. **Awareness** [GLZR17, HTL13, dJOBNM17, QPNK18, SSK+16].

**Axes** [CVW11, KCP16, LYY+16b, TLH10]. **Axis** [AG16a, FGS19, KKW+17, RSS14, SPB96, SCYW16]. **Axisketcher** [KKW+17].

**B** [BDHJ04, Cse10, Cse13, HHQH17, LWS97, LQLX14, ONL+12, PH07, RE01a, XF04]. **B-Mode** [PH07]. **B-Spline** [BDHJ04, Cse10, Cse13, LQLX14, ONL+12, RE01a].

**B-Splines** [LWS97, XF04, HHQH17]. **Back** [Ano08b, Ano11f]. **Backchannel** [DGW+10]. **Background** [KSY+16]. **Backgrounds** [SPP+14]. **Backward** [GT+17]. **Bacterial** [WWFT03]. **Bad** [BTS+18]. **Bag** [EHBA11].

**Bag-of-Features** [EHBA11]. **Balanced** [NLS+11]. **Balancing** [DL12, NSZ+17, PS06, ZGH+18]. **Ball** [BM+99, WR11]. **Ball-Morph** [WR11].

**Ball-Pivoting** [BM+99]. **Balloon** [TS08]. **Ballot** [WBDS11]. **BallotMaps** [WBDS11]. **Band** [LKHW04]. **Bandwidth** [SCL08, WSS09]. **Banking** [HA06a].

**Banquet** [Kas12]. **Bar** [KHD02, KHD07, TJW+17, TSA14]. **Baroclinic** [KLYS12]. **Barrier** [HSF+06, PKS+08]. **Bars** [CG14].

**Barycentric** [SCT+06, SAS+05]. **Bas** [SRM09, SJM14, ZZL+15]. **Bas-Relief** [SRM09, SJM14, ZZL+15]. **Base** [KZW+12].

**Based** [AJDL08, AHR+11, Ano14b, ALMF19, AW03, ADP02, BW03, BW04, BRT12, BF01, BHST17, BKRE19, BBH+17, BKDE00, BKL08, CBL07, CBL13, CCM11, CMN13, CL18, CQC+08, CBL07, CZC+15, CLB+16, DZMQ16, DWK+16, HM10, JFZ+18, LL+13, LJJH14, LLZ+16, LSV+18, MLKS18, MLMP18, NN11a, NN11b, OSS+17, PRH10, RDB+12, SCOIT05, TLD+12, VF13, WCC+18, WLZM10, YXG+13, Yan18, YEL+12, YLG+14, YEI16, Zha14, ZJX+15, WWZ+19]. **Awareness** [GLZR17, HTL13, dJOBNM17, QPNK18, SSK+16].

**Axes** [CVW11, KCP16, LYY+16b, TLH10]. **Axis** [AG16a, FGS19, KKW+17, RSS14, SPB96, SCYW16]. **Axisketcher** [KKW+17].

**Based**
Brushlet [Sel15], BSP [WM13b], BTF [LPF+07], Bubble [CPC09, GSWD18, ZFS+19], Buckling [KNO15], Budget [WLHD17], Buffer [CMFL16, QK04, Zha14, VPF15], Buffers [WLH16], Building [MAF11, MWC+12, MP13, PCL+18, SLC+19, SWF+16, VAB12, WFS+16], Bundled [HEF+14, HPNT18], Bundling [Hol06, YWSCI2, ZCL08], Burning [BWP+16, LIGF06], Business [BCH+13, VvWvdL06], Butterfly [MQV00], BVHs [Wal12], by-Example [DV95].

Cable [SL08], Cache [SJH+07, TDR10], Cache-Efficient [TDR10], Caches [YL06], Caching [GBP07, IWR+18, KGPB05, LY06], CAD [HC05], Calculations [SS05], Calculus [BBK07], Calibrated [BJM07], Calibration [BSM06, BMY05, GIMS18, HBKS09, IK15, KBB+12, KLS+18, KV98, MOI+15, PIN+15, PGRS13, RKK+15, RSS14, SH00a, TGW+95, WCW+16], Calibration-Free [KV98, SH00a], Call [Ano08c, Ano12e, XMM19a], Camera [BMY05, CRPH10, Dan16, DH08, GSC15, HZM13, JWS04, KNIR17, LL04, PRA+10, RK17, RKK+15, SM09, TKTN09, TMM+13, WLHD17, WCW+16, YLL+12, YGFX19, ZJH+11, Zha16], Camera-Based [BMY05, JWS04], Camera-Sampling [LL04], Cameras [BD16, CPW+18, KM10, LG12, PSM06, SLG+17, WLT+18b, WXY17, XLC+18], Can [JAO+14, aKGS11, TKE16], Cancellation [SRW+16], Cancer [BSKR19, GHL18, HHO+17], Canopies [CBLD11], Capacities [SLW+10, HSKIH07], Capacity [ChLVL09, HW12], CAPE [JNC+15], Capstone [Ano13t, Cox11, Fra12, Sza10, Bla12], Capture [BWK+13, CTGH13, CPW+18, CBL07, HCMTH15, LPG+18, LJJ+18, MCP+06, NQX+05, RK17, SLG+17, TAL+07, WL+18b, XLC+18], Capturing [BB12, HHH16, MLD+17, Tay02], Car [MF11, TYSN06], Carbon [BWW+17], Card [HA17], Card-Based [HA17], Cardiac [BPM+13, KGP+13, XSZ+17], Cards [SOR+09], Career [Ano10c, Ano11c, Ano13c, Ano13e, Ano14d, Ano15c, Ano16b, Ano16d, Car19, Dil17, Fuc13, Han18, Ros13], Caricatures [CCM11], Caricaturistic [RVG06], Carlo [HKL17, LSPW12, Sbe97], carrying [HSKH07], Cars [RHJ+16], Cartesian [EM06, KBVH17], CartoDraw [KNP04], Cartogram [NASK18, NAK18], Cartograms [KNP04], Cartography [Rot13], Cartoon [YJL+15, ZCZ+09, ZHF12], Carving [DZL+14, FG99], Carvings [LTPH17], CasCADe [INCB18], Cascading [AS98], Case [BvL06, FWD+17, GGLZ16, JCRS09, aKS12, LD11b, MRSS+12, PLC+11b, SS06b, dLvL06], Cases [BLS04], CAST [YEII16], Casting [HAB14, HK99, KH+09, LGM+08, LY+10, RPS09, SM11, SF14, SM97, WJ08, WKI+17, vAPP+11], Casual [PSP07], Catalog [SMS19], Categorical [AAMG12, FWD+17, HV13, KHB06, LSS13, SS16, UDSL18, WPS+09, XZM17, ZMZM15], Categories [BSG18, KBPG13], Categorization [JF16, HSKI04], Category [LGG+18, VFR13], Catmul [QMV98], Causal [KIL07, WM16], Causality [WM16], Caused [CMS06], Caustics [AQ07, MB18a, SKP07], Cave [PFK+08, CDK+17, DJK+06, FWK16, PWHK16, SM12], CAVE-Like [SM12, FWK16, PWHK16], CAVE-style [CDK+17], Celebrating [KHE09], Cell [CMSW04, GJ10, HPuV+18, IK95, KSG+16, KHDL07, WKM103], Cellphone [DSC+16], Cells [MAAB+18], Cellular [DSG+17, MAK08, MCS+08], Center
Centered

Centralities [HZM+16]. Centrality

Centrality [LWZQ17].

Centroidal [LSPW12, RLW+16, YW16].

Cerebral [GNBP11, GlvP+12, MV8+17, OJCJP16, BMGK08]. CFD

[CMN13, HOGJ13]. CG2Real [JDA+11].

CGLX [DK11b]. Chairs [RS12]. Chairs

[Ano14o, Ano16p, Ano16q, BSI18, BRS18, CKB14, IKLW14, Ano13o, Ano15m, CGGR18, CFK12, CLS13b, DLM+12, vHMM+11]. Challenges [Nie96].

Challenging [PK08]. Change

[GGPPS13, KBH+10, LHH16, MXW+13, RCL+15, SBHW11]. Changes [HHWN02, JBMS09, LMZ06, NSH+18, SCL+12, TS07].

Changing [BS16, DHM13a, SFMB12].

channel [WOCH09, WBD14]. Character

[ASwD14, BMST97, DlD14, KJ12, KCP08, yKL12, LPG+18, MAF11, SKY12, TLC+10, VBK17, VSS08, ZKM18]. Characterise

[JAAL18]. Characteristic [HVSW11].

Characteristics [BS02, GlvP+12, YAE07].

Characterization

[HEWK03, HEG+17, MY96, Mar18].

Characterizing

[CGM+17, FBW16, GGG+18, GFB+13, GBGC+14, RES16, WMK13]. Characters

[HK09, MNZ+15, SPW07, ZKM18].

CHARM [FYZ+17]. Chart

[KA12, RLB19, RMCW19, TJW+17, WB16].

Charticulator [RLB19]. Chartification

[CKLL09]. Charts

[DDW14, DJ18, HA18, KHD02, KHDL07, TSA14, WWZ+18, LTWH08]. Chase

[vW14]. Checks [ASMP17, CLKS19].

Chemical [GBGC+14]. Chemistry [JV09].

Chess [LWL14]. Chief

[Lin14d, Ano13a, Ano14n, Ano15l, Ano16n, Ano16o, De 15d, DS16a, DS17b, De 18a, DS18b, De 19b, Ert07a, Ert10d, De 16a, Flo17, Hag03, Kau98, Lin11d, Lin11c, Lin12e, Lin12a, Lin13e, Mue19]. Child

[BCG+11]. Childhood [JAM+14].

Children [ANR+18, BBC15, PMvWC05].

Chinese [HHQ12, LCC+17, TDM+18].

Choices [SMT13]. Choking [FT13].

Choropleth [ZM17]. Chromium

[PAB+08]. ChronoLenses [ZCPB11].

Chunked [SE18]. Circle [YLG+14].

Circles [SZHR11, YR95]. Circular

[DBD13, WSPV11, Wi12]. CiSE [DBD13].

Citation [BSMS17, HHKE16].

Citation-Driven [BSMS17]. cite2vec

[BSMS17]. CiteRivers [HHKE16]. Cities

[CKW+17, MDL+17, MPBM+18]. City

[AERA14, MDL+19, PY09, ZMM06, FPV+13]. City-Scale [MDL+19]. Clark

[QMV98]. Class

[BJY+18, PS12, WCC+19, CCM+14].

Class-Optimal [PS12]. Classical [CQM10].

Classification

[AHH+14, BBOJ16, BS02, CDS+12, CRT04, CM09, GHL18, KKCS98, LZH+07, ME18, PFP+11, PSP15, SWB+00, SLM18, SPL+13, TKC17, TLM05, ZKM17, vCdVW14].

Classifier [HKBE12]. Classifiers

[MQB19, RAL+17]. Claudio [Ano14f].

Clean [GDN+07]. Clear [Bru17].

Clearance [KMH11]. ClearView [KSW06].

Cleaving [BLW14]. Click [ZTA12].

Clicking [JNC+15]. Clickstreams

[CCL+16, LWD17]. Click [JZ10].

Client [PJ03].

Client-Server [PJ03]. Clifford [ES05].

Climate [DPW+15, JBMS09, KBL19, KLM+08, PDW+14, WLSL17, WPS+16].

Clinical [CLB13, KLL12, NGCL19, SSB19, WSH+19]. Clip [SEH08]. Clipart

[YCD+16]. Clipped [XDN11]. Clipping

[SV98, WJA13b, WEE03]. Clips [SJK+12].

Clique [RFLL18]. clock [SBS16]. Cloning

[ZJJ+15]. Closed [HK09].

Closed

[BKA+11, BSG18, WS01]. Closed-Loop

[BKA+11]. Cloth

[BW04, CLMO17, KNO15, SZK15, SSIF09].
Cloud [APS+14, DNN13, HPJG08, LDX10, LZH+13, MZC+16, WCB+18, YEI12].

CloudLines [KBK11].

[BHS12, CLC+15, CK10, FFB18, JBS08, LRC10, MOG11, OHJ+11, OHWS13, TCL+13, YEI16].

Cluster [BDF16, CAN14, GRVE07, KT+18, LWCC18, LLR08, NWI17, OJCP16, SKB+18, SGM08, YHLJ08].

Cluster-Based [CAN14, KT+18, LWCC18].

Clustered [HBF08].

Clustering [AAGF18, BBD+11, CD19, CK11, CL09, CZQ+08, DDGL07, FKRW17, GPR+01, HSCW13, HOG+15, KSDD14, KEV+18, MB18b, NOB16, OK11, PBN+13, PGL+12, SK13, TN14, Trd12, WCR+18, WS09, ZCL08, ZAM11, vLBR+16].

Clusterings [PGU12].

Clusters [CGSQ11, MFS+09, SiH95, ZLC+19].

Clustervision [KEV+18].

Clustrophile [CD19].

Clutter [ED06, ED07].

Cluttered [BK12, SPP+14].

CNNs [HTP19].

Co [EPS+15, IC07, IFP+12, LHD18, TIC09, WXZ+16].

Co-Located [IFP+12, IC07, LHD18, TIC09].

Co-Location [EPS+15].

Co-occurrence [WXZ+16].

Coarticaltion [DNL+06].

Coating [HL02].

CoDDA [HDSC19].

code_swarm [OM09].

Codes [BAW16].

Coding [FM07, HCMTH15, HPJG08, MCA+10].

Coefficient [YYSZ06].

Coefficient-Optimizing [YYSZ06].

Coexpression [NKHC08].

Cognition [LNS08, MWCR06].

Cognitive [BSE+17, BLS15, SBS16, SFR+10, TTR10, ZLB+05].

Coherence [HSR13a, MTM+16, tCMR08].

Coherency [BSL+12].

Coherence-Based [BSL+12].

Coherent [CRH05, FWSL12, GGTH07, GIK+07, GHP+16, Har16, HVSW11, HPC+13, MPT03, RJJ17, SP07, SFB+12].

Cohort [GGC+17, KOJL+14, KPS16].

CoLa [DKM06b].

Collaboration [CC12, GLB16, NJJ11, TIC09].

Collaborative [BCB10, BE09, CDK+17, GCL+18, HTL13, IC07, IFP+12, JWL05, KAM+08, LH11, LLL06, MT14, MGPH06, RZP+07, SKY12, ZG1+18].

Collage [FYF+18, LZZ+18, WHFL14, YLG+14].

Collection [IHK+17, JDA+11].

Collections [BKW16, DYW+13, FYF+18, HHWN02, HFM16, KKP+17, LYK+12, PM08, RSW018, SK+14, ZGW+14, ZLDM16, cKJG+12, dLVvL06].

Collective [BJC+19, HZH14].

Collision [BW03, BW04, CL18, CCW+09, CS08, GSM+14, GLM06, Hub95, KGS98, KMT14, KGAM18, KHM+98, LCNG14, LKM+18, MBT07, MTS07, PML97, RG+04, SH12, TCYM09, TF06, ZK07, ZK12, ZK14a].

Collisions [FG99, MNC14, SSIF09].

Colon [GSZ+13, NMGK17, ZMG+10].

Colonoscopy [ZBB+06].

Color [CGSQ11, MFS+09, SiH95, ZLC+19].

Color Gord [BB03, BW04, CL18, CCW+09, CS08, GSM+14, GLM06, Hub95, KGS98, KMT14, KGAM18, KHM+98, LCNG14, LKM+18, MBT07, MTS07, PML97, RG+04, SH12, TCYM09, TF06, ZK07, ZK12, ZK14a].

Color-Blending [FG99, MNC14, SSIF09].

Colorgorical [GLS17].

Coloring [CC12, GLB16, NJJ11, TIC09].

ColorMap [DKM06b].

ColorMap [CC12, GLB16, NJJ11, TIC09].

Combinatorial [BCB10, BE09, CDK+17, GCL+18, HTL13, IC07, IFP+12, JWL05, KAM+08, LH11, LLL06, MT14, MGPH06, RZP+07, SKY12, ZG1+18].

Collage [FYF+18, LZZ+18, WHFL14, YLG+14].

Collection [IHK+17, JDA+11].

Collections [BKW16, DYW+13, FYF+18, HHWN02, HFM16, KKP+17, LYK+12, PM08, RSW018, SK+14, ZGW+14, ZLDM16, cKJG+12, dLVvL06].

Collective [BJC+19, HZH14].

Collision [BW03, BW04, CL18, CCW+09, CS08, GSM+14, GLM06, Hub95, KGS98, KMT14, KGAM18, KHM+98, LCNG14, LKM+18, MBT07, MTS07, PML97, RG+04, SH12, TCYM09, TF06, ZK07, ZK12, ZK14a].

Collisions [FG99, MNC14, SSIF09].

Colon [GSZ+13, NMGK17, ZMG+10].

Colonoscopy [ZBB+06].

Color [CGSQ11, MFS+09, SiH95, ZLC+19].

Color Gord [BB03, BW04, CL18, CCW+09, CS08, GSM+14, GLM06, Hub95, KGS98, KMT14, KGAM18, KHM+98, LCNG14, LKM+18, MBT07, MTS07, PML97, RG+04, SH12, TCYM09, TF06, ZK07, ZK12, ZK14a].

Color-Blending [FG99, MNC14, SSIF09].

Colorgorical [GLS17].

Coloring [CC12, GLB16, NJJ11, TIC09].

ColorMap [DKM06b].

ColorMap [CC12, GLB16, NJJ11, TIC09].
RKWH12, RLW+11, SMN12, Ste98, TC17, WGS07b, YSS+12. Computational [BSO+12, CJTM05, GLK+13, KZX+14, PW12, YESK95]. Compute [MFS+09]. Computed [AHR+11, MBW+07, SA19].

Computer [Ano14c, Ano14j, Ano15a, Ano16f, Ano16a, Ano17c, Ano18a, Ano18b, Ano19a, Ano19d, BvdP12, BSM+13, BDC17, CC12, HE12, HQK06, JDA+11, Kas12, KHE09, KS14a, KLI14b, LWZQ17, MMCE09, Ota17, PBO+14, RSSA08, SK15, SR00, XZS+17, Yau18, ZLYY18]. Computing [ABCO+03, BEK10, BTJ+13, CWZ+14, DN13, GBP12, JZLG09, KLL+13, KSY14, MGM09, MZC+16, MTRP10, NJ99, QCT13, RvWT08, RRJH18, Wan08, WTL+09, XMX19a, XHF12, XWL+15]. Concatenating [MCP+06]. Concave [JFFB10]. Concavity [AZC+12].


[AdLH13, CLMO17, SLNB11]. Contagion
[VBC+16, WBA+14]. Containment
[WLSW08]. Contemporary [VHBS16].
Content [Ano19i, ADP02, CTM+13, CLB+16, GQM+18, HWS17, LLY+13, LJH+18, SBB+18, YLG+14].

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

Containment-Based [ADP02, LJH+18].

Contents
[Ano10f, Ano11k, Ano12o, Ano13s, Ano15o, Ano16s, Ano16t, Ano17i, Ano17j, Ano18d, Ano18e, Ano14q, Ano14r, CLS13a].

Contest [PFG08].

Context [BBBM18, BMGK08, BSSB10, BGKG06, CL18, CM16, DZMQ16, FWSL12, FN13, GNP11, GLZRI17, KSW06, LDM+18, LBS+19, MB19, PH07, QWC+09, RGP+12, RMW09, SBB+18, SWS+11, TWSK14, TS08, WKB+08, WLT08, WC11, WWLM11, WP16b, Yan18, YEII16, ZG+12, vHP09, zBBKN14, Kin10, NH06]. Context-Aware [BBBM18, CL18, DZMQ16, Yan18, YEII16].

Context-Awareness [GLZR17].

Context-Preserving [BGKG06, SWS+11].

Contents [BBDO6]. Contextual [BLE19, LPK+13, WS06b]. Contextualized [BAB+18, WKB07, WKB+08].

Contextualizing (OKB+19). Contiguous [KNP04, SKY14].

Contiguity [AAMG12]. Continues [vW14]. Continuity [JDSR+18].

Continuous [BW08b, BTS+18, CCW+09, CRPH10, GPR+01, HW09, KMT14, LT10, LT11, OKB+19, TCYM09, ZK12, vLDL03, EGS03, WM18].

Continuum [BBG+18, EGS03, WM18].

Contour [CD14, DN13, FIB+14, HSCS11, SB06, TFO09, WMK13, ZT09, LLLN+14, TGSP09, PLS+14, contour-preserving [LLLN+14].

Contouring [PSF09, SJW07, Wu16]. Contour [HTF97, SWC+08, TN14]. Contraction [EBB+15, YSZ04].

Contrast [GUFM15, HRISI15]. Control [EIKS18, FM06, FSME14, HSK14, HSH10, JAAL18, KLKS10, LGS+11, MY96, SWR+13, SLB04, SO17, SBE+15, SSS13, SPW07, TKTN09, TIK15, WHR02, WRF+11, WGF08, YLL+12, ZOC+13, ZBMY14, vDCvW14].

Controllable [HTZ+11, HYZ+12].

Controlled [BDK08, HHVW96, KZL07, KMT14, OTKIS15, WDC+07, ZT09].

Controller [VBK17]. Controls [LNHS16].

Conversion [SPO+12].

Conventional [DLW+17, FXG12].

Convergence [GCZL14, LHH16, TRL+19].

Conversion [LKL+15, LKR+18, LLWQ13, YR95].

Converting [GLTH01, HA18, SN97].

Convey [WPC04, HY+17, GCT17, KLM04, WPZ+11]. Conveying [IPF97, KHSI04, HDSC19].

Convolution [FW08, FC95, LM05, SK98, Sun03].

Convolutional [BJY+18, HKYM17, LSL+17].

Cooperation [LWZQ17].

Cooperative [TIK15, DMS+08].

Cooperation [SWL+14]. Coordinate [ED06, REB+16, tCMR07].

Coordinated [DCCW08, GR15, KSG+16, KERC09, LKD19].

Coordination [BBP08, DK10, DK11a, GXY12, HW09, JF16, LT11, LT13, LH13, LTP+05, ML19, NR18, NH06, RLS+19, RSS14, RSRDS16, YZG+09].

Coordinating [LHD18, TIC09].

Correcting [FST02, LCDP13, SHC19].

Correct [CWDH09]. Correction [ZT05].

Correctly [CWDH09].

Corelines [GT19].

Core [TIC09, CWDH09].

Core-based [HSDC19].

Correlation [AAMG12].

Correlation-based [HSDC19].

Correlation [EIG18].

Correlation [SNS+14].

Corporation [CSL+10, CLWW14].

Corporation [LKB+18].

Corporation [PP05, CN-04].

Corporation [ZT05].

Corporation [CWDH09].

Corporation [FST02, LCDP13, SHC19].

Correcting [MT14].

Correctly [CWDH09].

Correct [FST+14, HQ13].

Correcting [MT05].

Correct [Ano96a, Ano96b, HRISI15, IK15, JHW+14, SOS+17, SRC03, WSH+12, XDN11].
Corrections
[BGM+08, HJW99a, KS00a, MOF10, PR00b].
Corrector [BS05, SFBP09]. Correlated
[CY17, VS11]. Correlation [HYFC14,
KH16, LZJ+18, YHR+19, ZMZW+15].
Correlation-Preserving [LZJ+18].
Correlations [STS06, YPI13, ZW18].
Correspondence
[AW03, ADDG12, LNHS16, XA09].
Corresponding [NMGK17]. 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
[BL04]. Coupled
[HZ13, LTDF8, RSM+16]. Coupling
[BLE19, BTT09, CMK15, VHL14].
Courses [CCL+16]. Court [WCW+16].
Cover [Ano10e, Ano15f, Ano16g, Ano16i,
Ano16j, Ano11f, Ano11h, Ano11j, Ano14i].
Coverage [Elb95, IDA+14, KM16, STM17].
Covering [RKG+18]. CoViCAD
[TBB+07]. Cox [MPK+13]. CPU
[SHC+09, WJ+17, WWW+19]. Crafted
[Ger13]. Crafting [PD+14]. Crease
[STS10, TKW08]. Creased [KMDZ10].
Creases [KSSW99].
Create [BDFM17, JK16]. Created [PPP12].
Creating [GLS17, KP05, KHA10, SVK+07,
SK16b, SJK+12, TSB+05]. Creation
[SLA+09, WYSM17, YT02]. Creative
[CLEK13, GDJ+13, KGD+19, RRHJ18,
WXJD17]. Creativity [Ger17]. Creature
[LGS+11]. Credits [Ano10e]. 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
[LZJ+18]. Crossing [BG+11, SS08]. Crowd
[FR13, LCNG14, PvdBC+11, RE14,
WOO17, nGAB16]. Crowded
[KAK+18, KCK+19a]. Crowds
[MT01, SMTT+17]. Crowdsourced
[BLIC19, LCL+19, WGS+13].
Crowdsourcing [GJC+17, MDF12].
Crystal [JKM06]. Crystalline [DK13].
Crystals [MJK06, SPCJL06]. CSG
[HR07a]. CST [HR07a]. CT
[HLRS+08, HKG07, RHR+09, XSS+17].
Cube
[CVC+12, KDA+09, MLKS18, XHL18].
Cubemap [WWL07]. Cubes
[DSS+09, LB03, Nie03, STH03, WFW+17].
Cubic [Cse10, Cse13, EVM08, KEPO8,
PQF+09, POD+13]. Cubical [SVAC12].
Cubist [CH03]. CUBu [vdZCT16]. Cue
[LKR+18]. Cueing [LSB+16, TCM06].
Cues
[BW14, KOCC14, LHC10, LDFZ14, LKM+18,
PB16, SLMA06, VBB07, WHA07, WSO6b].
Culling [BMA+19, CL18, GLM06, KS01,
MSHC99, SG99, TCM09, ZK12].
Cumulative [GWK12]. Curation
[SSBC19]. Curation-Based [SSBC19].
Current [Sat13]. Curvature
[AT05, KOC14, LHC0, LDFZ14, LKM+18,
PB16, SLMA06, VBB07, WHA07, WSO6b].
Curvature-Adaptive [ZG12]. Curve
[ACH+13, BSL+12, CSM07, JM10, LCMH09,
LLBS17, LGS12, MK14, ONL+12, OK11,
RvWT08, WL08, ZWR14]. Curve-Centric
[LCMH09]. Curve-Skeleton
[CSM07, WL08]. Curve-Skeletons [LGS12].
Curved [AFRS05, AMB+13, CRPH10,
LLBS17, WGC+08, XRP+12, vGMSW15].
Curves [BSH+16, DMC15, Eib95, HVSW11, KBI+18, MKW14, MYM16, MM08, NJ99, WT10a, WFG+19, ZDZ18]. Curvilinear [FC95, HHM14, HK99, STY12, CZC19]. Curvilinear-Grid [HMH14]. Curving [IPF97]. Custom [BLO+05, SLA+09].

Custom-Tailored [BLO+05]. Customer [WWL+10]. Cut [NKH11, LCL15].

Cut-Surface [NKH11]. Cutouts [LSR+13].

Cuts [DGW11, WWB+13, XTY+11, ZZBW08].

Cutting [CPW+15, FG99, GTLH01, SBW17, WZW+05, ZCC11].

Cyberinfrastructure [MEV+14].


Cylinder [LZH+13]. Cylindrical [AL11, AG17].

CyteGuide [HPvU+18].

D [CMK15, GW13, MY14, NHYY18, SK16a, SW17, AL06, AJDL08, AHKMF11, ARH+15, AHR+11, APV+15, AJ19, BB+18, BGCS17, BB09, BF01, BBiA09, BAI17, BPM+13, BTTB10, BTHD11, BC12, BSH15, CWZ+14, CTGH13, CWL12, CPW+18, ChLYL09, CC08, CZN+11, CKW+12, CFH09, CCM11, DWD14, DHL09, DRM04, DBW11, DRHK07, DNP07, DHM13b, DMC15, ERL+13, ET08, FW08, FYTL19, FCL09, GCL+15, GRT17, GSCI15, GCL+18, GIS03, GJR+14, GPP+16, HDBC15, HE06, HLL07, HLRC+12, HM10, HLYL18, IFP97, INCO8, IFM14, JSJG03, JK16, JNC+15, JDLO9, JC806, JCWD14, KSG+16, KZLO7, KHS+19, KCA16, KLG+16, KGP+13, KCK+19a, KYT+18, KKKW05, LYY+16a, LK+05, LS07a, LWS+17, LRN96, LH03, LDH09, LKL+15, LHC16, LLL04, LKR+18, LG13, LDN11, LJJ12, LL05, LY06, LB17, LLCD11, LCS+12, LGS12, LFR03, LODI16, LSM03, MS08, MWSJ14].

D [MW99, MCHM10, MAST16, MCG12, MSA17, MH10, MJK06, MDS16, MES+11, MWC+12, NWHD16, NB95, NQX+05, NHYY18, OHWS13, OA11, dJOBNM17, OH06, PQMCR17, PBO+14, PZLZ17, PK08, PLW11, PLW12, P303, PGT+08, PZ07, PH07, PMW13, PUN11, PGI+17, QCT13, QT96, QY07, QC+09, RSBB17, RHZN11, RKG+11, RT12, RKKZ19, RF11, SW12, SZB+09, SWB+00, SBV+11, SMM+07, Sel15, SKYS14, SPP+14, SPB96, SMN12, SW97, SWC15, SRW+16, SGJM18, SKW+11, SBW17, SS13b, TKT09, TLC+13, TFT17, TMWS13, TC90b, THWS05, TZZ+12, TKAM06, TLC+10, VCP08, VAB12, VW12, Vast16, WWYS04, WLL+05, WH09, WM13a, WCC+14, WM18, WTL+09, WQZ+18, WB08, WSE07, WFG+19, WXY17, WCB+12, Won16, WLDW11, YOS13, YPR17, YLS11, YSL+13, YJL+15, YL95, YS1+10, YE112, YE116, ZTP05, ZH07, ZWZ+13, ZWR14, ZTT17, ZGH+18, ZPP05].

D [Zho16, ZCFL15, vPPB+10, vPBB+11, vWN04, vLBB16, zBBKN14].

D-NURBS [QT96]. D-Snake [LG13].


Damage [HTP+08]. Dance [FXG12]. Daniel [Ano11d].

Dark [KHA12].

Dashboard [BSKR19]. Dashboards [McK09, SCB+19].

Data [AMM+08, AJ17, ACS+18, AAMG12, AHH+14, AZL+19, ARH+15, ARL+17, AA11, AAH+13, AAFW17, Ano99b, ASMP17, ASE16, AJ19, AHL+13, BSH+16, BPP+16, BE18, BEW95, BKL+11, BWK+13, BIA17, BAAK+13, BGB15, BSDW13, BBP08, BBB+19, BDD+16, BBB+12, BWT+11, BG06, BGKGO6, BAW16, CDC+07, CLG16, CLZ+18, CWT+08, CDR+18, CBL07, CZC+15, CYW+16, CXR18, CHW+18, CM16, CXM19, CLC+15, CM02, CPS97, CvW11, CNM13, CML+12, CMSW04, CSC07, CL11, CJTM05, CRY06, CMP14, DC17, DSKA19, DFD+14, DR08, DS16b, EGG+12, EM06, EMD+15, EBR09, FPB17, FKL10, FPV+13, FM12a, FAW10, FMH08, FSE12, FWR00, FIBK17, HHH+14, HK99, HTY+12, ZTYC12, ZCW19].
DBD18, KDX+12, KWS+14, KHZR18, MLMP18, PSTW+17, SOL+16, ZCD19.

**DecisionFlow** [GS14]. Declarative

[HB10, JVDVF19, SRHH16, SRM19].

**Decomposition**

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

**Decompositions**

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

**Decompressible**

[KXW+18].

**Deconstraining**

[YN03].

**Decorating**

[ZDW+05].

**Decoration**

[BKRE19].

**Decoupling**

[BB09].

**Dedicated**

[GUO00].

**Deep**

[BTTJ+13, CCJ+19, GL17, KAKC18, KTC+19, LSL+18, PHV+18, WGSY19, WSW+18].

**Deep-Learning-Assisted**

[CCJ+19].

**Deeper**

[HDR+13, YaKSJ07].

**DeepEyes**

[PHV+18].

**DeepTree**

[BHP+12].

**Defect**

[SPCJL06].

**Defects**

[MJK06, RGK+13].

**Deferred**

[TCM10].

**Deficiency**

[MOF09, MOF10].

**Defined**

[JJ09].

**Defines**

[AG17].

**Definition**

[WR11].

**Deformable**

[ADDG12, BW04, CGD97, DGW11, DT+17, DDKA06, EGS03, FST+14, HBA14, KL14a, LSH07, LKT13, NWI17, SO17, SSF13, TL07, TCYM09, WPG05, WB05, YGV+13, ZK07, ZWW+12].

**Deformation**

[AL11, BS08, BDD+16, CK05b, CCM11, CSC07, DCKY02, FG99, GD01, HMM14, HTZ+11, HYZ+12, KSNY17, LBD13, LG13, LL14, LXW+18, MV+17, SVAC12, SM06, TC09a, TWSK14, TEC+16, WCB+12, YHM+08, YXG+13, ZL+15].

**Deformations**

[CDA99, FvdPT97, HSSK16, HHZH17, KJ12, SSH14].

**Deformed**

[KBKG07].

**Deforming**

[BW11, BBIF12, CVG13, VPB+11].

**Depictions**

[PSM07].

**Deployable**

[ZWC+16].

**Deprivation**

[BBB+16].

**Depth**

[APW16, BE06, BG07, CMP14, Dan16, EBRI09, IJK05, IMS15, KPR+15, KOCC14, KSTE06, KL04, KJW+14, LDH09, LK09a, LK+15, LH16, LHN16, LDN11, NRS15, PB+12, RBWF18, SLG+17, SEA09, SJK+07, SSE15, YFX18, YGFX19, ZDJ+09, ZWM13].

**Depth-at-Field**

[RBWF18].

**Depth-Dependent**

[EBRI09].

**Depth-Fighting**

[VF13].

**Depth-Fused**

[LDH09].

**Depth-Inferred**

[ZDJ+09].

**Depth-Field**

[IMS15, LK09a].

**Depth-Ordering**

[ZWM13].

**Depth-Perception**

[BG07].

**Derivative**
Derived [OJ12, Rot13, TBB+08, WT10a, GDKB17].

Deriving [EGS03]. Descending [NMN+18].

Description [CDXR1, SAR+19, VC17].

Descriptions [LB19, MB01]. Descriptor [CZN+11]. Descriptors [CPG09, DNP07, EHBA11, UMW+12].

Design [AJDL08, ARRC11, AS05, BB12, BSKR19, BEJK12, BSM14, BLB+17, BGK11, BM10, CKW+12, CZZ17b, CWQ07, CLEK13, CJT1005, DPW+15, DBH14, EF10, FFB18, FCZ15, GS08, GKL+13, GWF14, GJZ+12, GDJ+13, HKBR+14, HHO+17, HA17, HKR+08, HA06b, HB10, HLRC+12, HZM13, HLB+18, JHKH13, aKGS11, KW14, KAM08, KSL+17, KS14b, KBV17, KHL17, KPR+14, LJJ+10, LTM18, LWS+17, LIRC12, LIM+12, LSC+12, LD11b, LLY06, MLMF12, ME18, MJW+13, MRSS+12, MMAM14, MTK+18, MPOW17, MMS97, MWN+19, Mun09, OM09, OK11, PFW12, PWH16, PB16, QT96, RHY14, RHR16, RKG+18, SKK06, SVC12, SFB+12, SHS1a, SNHS13, SMM12, SYYC11, SOL+16, SD12, SSL+12, SNR14, Sza18, TM12, TLD+12, TSW+07, WGM+08, WZK12, WASQ18, WKD19, WQ07, YCL12, Zag96, ZHT07, ZM13, tCMR07, vLFR17, WBD14].

Designing [Chi16, EMRY02, HN13, Kei00, KKL+16, dJOB117, PHV+18, SKK+14, TK17, WK06, ZWC+16]. Designs [HFM12, OAH+14, RHR16, WLF+19].

Desktop [JD13, LV12, PFK+08, TMM+13, TBR+12].

Destination [AAFW17, GZ14, YDJ+19, ZFL17, ZMT+19].

Detail [AWHS16, BSH15, CMP09, GLX17, HSH10, HYZ+12, KCIJ+10, MB01, NM13, NC07, WGS07a, WY19a, XESV97, Zhu05, ZBDS12, vEvW14, DMS+08].

Detail-Preserving [GLX17, HYZ+12].

Detailed [KLCK17, SSH14, ySKK07].

Detailing [YYT16]. Details [BB06, LBS+19, NDS10, SA19].

Details-First [LBS+19].

Details-on-Demand [SA19]. Detecting [AG17, KSDD14, TN13, WBDS11].

Detection [BW04, BDJ14, CLZ+18, CCW+09, CRT04, CS08, GLvP+12, GSM+14, GSL+17, GRVE07, HLRS+08, HQK06, HuB95, JWS04, JPL+16, KHS+18, KG98, KMT14, KHM+08, LWZ+16, LZH+13, MBT07, MRSS+13, MJK06, MTS07, OSB14, PLW11, PML07, SBJ+10, TCY109, TN14, WRM+10, WWC+14, WX17, WS1M17, WS01, Won16, XMM19a, XMM+19b, ZK07, ZK12, ZK14a, ZLK+18, ZBB+06, JQD+08].

Detector [BW03, DNP07]. Deterministic [BMA+19]. Developable [TC09a, Wau08].

Developing [BW11, KFS+19].

Development [KMSB14, LKK17, LFA+16, MY13, TAK+05]. Device [EPS+15].

Devices [BJM07, BMWW18, DFG+14, HTP+08, KPR+15, LS07a, LHD18, RBDG15, RJ17, SOS+17, YC14].

DIA2 [MEV+14].

Diabetes [ZCD19].

Diagnosis [BGP+11, KHZ18, LXL+18, MDD+08, OIR+17, SSMG13, ZWM+19].

Diagnostics [XMR17]. Diagram [CdOKRV09, YBW14]. Diagrammatic [JhR10]. Diagramming [LFW+19].

Diagrams [BTC10, BKH+11, CLB+16, CRB+05, JRH14, KLM10, MPW+12, RDI0, RZF12, RSF14, SSB14, SAS16, SZH11, SRHZ11, VCP08, WI12].

Dialogue [PMWC05].

Diamond [WD09].

Dice [EDF08].

Dichoptic [KK19].

Dichromats [CCB11, KOF08, SMO+13].

DICOM [CGS11].

Diderot [KCS+16].

DiffAni [RM13].

Difference [RM13, Sza18, WCJ06, YC14].

Differences [TSD09].

Different [BC18b, FTE13, GJZ+12, HOT98, SIL+10, TAL+07, YL18].

Differential [KHW+09].

Difficulties [HAS11].

Diffraction [RSR+18].

Diffuse
Diffusion [NSS14, SVGR16]. Diffusion [CLS+12, CYZ+09, DPR+00, FT+09, GYW+12, GSZ+13, GKL+16, HM+10, HQ+13, HLD+08, KLLR+07, KW+00, PT+17, STS+07, STS+10, WDC+08, WLY+14, ZDL+03, ZSL+16, ZDZ+18, ZHL+09, vAPP+11].

Digital [AB+06, DiV+15, JS+03, KSI+96, MBW+07, PMCS+11, SCT+06, SE+18, ZT+07].

Dimension [BWC+04, DWF+19, GXY+12, KW+10, STM+17, SMT+13, WCR+18, YRGW+13]. Dimensional [ALM+11, ADP+02, BSL+14, CCAL+12, DAW+13, EHS+13, GBP+10, GSW+14, GNP+06, HEWK+03, HHM+14, HNR+06, HRD+19, IHR+01, JDL+12, KRHH+11, KPB+14, LMZ+14, LT+16, LMW+17, MBS+04, NM+13, NE04, OHJ+11, SS06b, SLB+04, TAE+11, TFH+11, TLLH+12, TKBH+17, TLM+05, WSPV+11, WM+13a, WM+18, WAG+06, WXC+08, YXC+18, YRGW+13, ZWC+18, ZLC+19, FZC+07, GNP+07, LLRR+08, LPK+16, ZWR+14]. Dimensionality [JJ+09, KC+04, SZZ+17, SDT+16, WFC+18].

Dimensions [LBGV+13, TFH+11, YHW+07].

Diminishable [ALS+18]. Diminished [KSY+16, STB+18]. DimpVis [KC+14].

DimReader [FGS+19]. Dipoles [GBM+12].

Direct [AWC+10, ACTM+12, BTP+09, BMWM+06, BKW+08, CR+08, CWM+09a, CC+11, CWC+06, DWB+06, FDPH+17, FE+17, GPC+17, GKK+12, HLY+10, HXF+15, JKRY+12, KWP+01, KW+00, KC+14, KJL+12, LR+11, LL+06, MCK+12, Max+95a, OKB+19, RE+01a, SE+17, SF+14, SE+15, WQ+07, WKT+17, YCZ+16, YSI+10, ZWLM+13].

Direct-Indirect [ACTM+12].

Direct-Touch [YSI+10]. Directable [JFB+10]. Directed [CHK+04, DKM+06a, DRMM+13, MKT+18].

Directing [PvdB+11].

Directly [SS+11, WWY+04, WC+13, ZHZ+15].

Directionally [AM+13].

Directionally-Varying [AM+13].

Directivity [MAK+14]. Directly

[HB+13]. Dirichlet [HLG+14].

Disambiguating [HSL+19, SC+15].

Disambiguation [SW+17]. Disciplines [GZ+12].

Discontinuities [LT+10].

Discontinuous [SCKR+08].

Discovering [CS+12, LS+16, ZC+12].

Discovery [BS+19, DCC+08, Eic+00, IDA+14, PL+14, SS06b].

Discrete [AT+05, A+17, AJ+07, CS+08, ED+W+19, HKH+18, IR+01, JKL+18, KCOY+03, LS+13b, LTT+04, LCS+06, PLK+06, RS+12, SvdBL+11, SN+97, VCP+08, Zang+96].

Discretization [EJR+14, KDBB+17].

discriminable [GLS+17]. Discriminant [ZP+05]. Discriminative [MGMP+18].

Discussion [SR+16].

Disease [BGP+11, GND+18, MSS+08, OR+17, TBB+07].

Disentanglement [NOB+16].

Disk [LLL+08, YXH+13].

Disocclusion [DZ+16].

Disparity [WZC+15].

Displacement [AYR+09].

Displacements [KMD+10, WCB+12].

Display [BS+02, BC18b, CK+16, CM+16, CDK+17, DK+11b, DTT+17, ETO+10, Gor+02, GPK+14, HII+18, IFP+12, JH+13, JRT+14, KKT+18, KB+11, KFL+15, KML+96, LJS+15, LDH+09, LDN+11, LHC+10, MY+13, MBZ+12, MIO+15, NHH+07, dJOB+17, ORC+07, OHH+06, PKS+08, PGR+13, RWB+18, RLM+10, Sim+07, SvfLF+10, SZH+07, SBH+11, TKT+09, TIS+16, VB+18, WZW+05, WB+08, WPS+06, YNH+06, YHW+07, YHL+08].

Displaying [JS98].

Displays [AHK+11, AT+16, BSE+17, BI+12, BSM+06, BJ+07, BSE+18, BC+18a, BM+05, CAN+14, DVC+07, DFG+14, DKJ+06, GIS+18, HN+13, HRI+15, IK+15, IDA+15, IAIK+16, IHS+17, JH+13, JWS+04, KPB+13, KBB+12, Kra+16, LCR+16, LKD+19, LHI+16, LSK+18, MS+04, MT+05, MMCE+09, OTK+15, PIN+15, PBC+17, PGI+17, QPN+18, RHZN+11, RM+17, SLG+09, SBK+11, SFC+07, TAM+06, VH+16, ZFS+19].

Dissemination [BKW+16].
Dissertation [Meh17]. Dissimilar [HGWW18, ZCJH12]. Dissimilarity [BDD16]. Dissipation [KLLR07].

Distance [BA05, BKS01, CZN+11, DBW11, Gu01, GDN+07, HLD+08, JBS06, KBB+12, KHSS14, KL14a, KW11, KDBB17, KMH11, LPPK12, LMZ+14, NDS10, SFH06, SK00, YXM+15]. Distance-weighted [HLD+08].

Distances [LKD19, XWL15]. Distant [WHK15]. Distorted [SM09]. Distortion [BGR06, NHWD16, WLT08, YYSZ06].

Distortions [NSZ+17]. Distractors [PFW09]. Distributed [BSM06, BSO+12, CMLC06, CLL08, CCQ+14, DL12, LSJ+15, LNS08, MB03, NSS03, OWS15, PST+15, PMD+07, RLM10, SSMG13, SSK12, TIK15, Vis15, Wah14, WAG+12, Wil18, XZB14].

Distributing [LLL08]. Distribution [DS16b, DCH+17, GQG+17, HSC19, HLCB18, IWR+18, JH09, KBH13, OHJ+11, SSI99, XZM17]. Distribution-Driven [JH09]. Distributions [AWHS16, BWW+12, LLL+10, NSW+17, WAG06].


Doccurate [SSBC19]. Document [BPE19, BMS17, BSM14, CWDH09, GLK+13, HHWN02, HKBE12, KKP+17, MDM07, PM08, PNML08, SOR+09, cKJG+12].

Documentation [HF11]. Documents [BPE19, GBW17, KZD+10, KJW+14, SOR+09]. Does [KDX+12, YAE07, ZKM18].

DOF [GL17, TIK15, YEI12, BDF16]. DoG [Mur95]. DOI [JA18]. Domain [BRSP18, CCQ+14, CJTM05, DLW+17, DNP07, DL03, GHL18, tKS12, KCS+16, LS02, Mar18, RBGH14, YLSS11, Zhu05].


DOPs [KHM+98]. Dot [IFM14, NWI17, RWA+18, ZTA12]. Double [WPC+13, YSL+13, YHJ+17]. Double-Sided [YSL+13, YHIJ+17]. Doug [Ano14c]. Down [DH08, LFR03, LS10].

DQNViz [WSY19]. Dr. [Han95]. Draco [MWN+19]. Drag [OKB+19]. Dragging [CLEK13]. DrawFromDrawings [MSA17].

Drawing [AMA06, CHK04, DKM06a, BS11]. Drives [BLE19, GBW17, KZD+10, KJW+14, SOR+09].

Driver [KGAM18]. Drivers [LWLM18]. Driving [BIPS12, MRT+18, TYN06].

Drive [YMY08]. Driven [AZM12, AG16b, ARL+17, BGOJ16, BMS17, BM10, CDBR14, CDR+18, CXM19, CLR13, CM11, DS16b, FXG12, GH00, GABJ07, GABJ08, GGA+11, HBJP+12, HSC19, HD12, JH09, KSI+96, KSL+17, KST+14, KGZ+12, LJX+10, LCC+17, LHJ+18, LMD12, LSS13, LFP07, LLL+19, MD12, Mar18, PZLZ17, PK13, PL+14, PGL+12, RLNN11, SSH14, SPG14, SSL+12, VKG05, VFG06, WAM+19, WYM08, WHK15, WFC+18, WMGE12, YLL+12, ZGL+06, ZH07, ZLD+14, ZNZX16, ZGM18, tCMR08, MTK+18, ZBBW08].

Drivers [KGAM18]. Drivers [LWLM18]. Driving [BIPS12, MRT+18, TYN06].

Driver [KGAM18]. Drivers [LWLM18]. Driving [BIPS12, MRT+18, TYN06].

Driver [KGAM18]. Drivers [LWLM18]. Driving [BIPS12, MRT+18, TYN06].


DSLJ [WLHD17]. DSPCP [NR18]. DT [AS19, JFTW07, MN07].

DT-MRI [AS19, JFTW07, MN07]. DTI [BVP+10, CDZ+09, JDLO9, PFK07,
PPvA+11, ZCL08. DTI/HARDI [PPvA+11].

Dual [ATLF06, DWF+19, HKGO7, HF06, KLM04, KM06, LLLF08, LML+18, ME11b, SJW07, TFH11, WLC15, YLSL11, YFZ+18].


Ductile [FHG+09]. Duet [LBW19]. Duplication [HBF08]. Duration [MVN+19]. During [DC17, JBS+18, KBGE11].

DVV [KOJC12]. DXR [SLC+19]. Dye [JEH02]. Dynallax [PKS+08]. Dynamic [AHSS14, AL11, APP11, BFP14, BSS+13, BDY06, BMW18, BFL06, BVB+11, CWL12, CS08, DVP+18, DL12, FvdPT97, FBL+18, FM06, FT08, FTES13, GJG+15, GPK14, GGPPS13, Guo+12, HL02, HSS11, HSCW13, HBW14, HWL+11, HQ04, HTZ+11, HEF+14, JS06, JFY16, JWL05, KJL+12, KLS+18, KW13, LRP97, LWF+19, MB18, MB18a, MQV00, MKH12, MK07, MTB17, NWI17, NSE+12, NKHC08, OBPK18, OBLN17, PCY08, PKS+08, PH08, QMV98, RD05, RGFLL14, RP12, RG95, RM13, RSS+18, SST+17, SAM+05, SWW+15, SAC+08, SG99, SLW+10, Sun03, TJW+17, TF06, TSH+14, VS11, VPF15, VBB16, WLB+14, WMWL11, WDF+19, WB05, YNCP06, ZK17, ZPS04, ZMD13, ZGH+18, ZX18, vdEHBvW14, vdEHBV16, FHL10, LCM07].

Dynamically [BS16, LYY+16a, SA19].

Dynamics [BLG+16, Fau99, GRVE07, GBM+12, KBE+18, KBE09, LVR07, OBLN17, SJJ+17, SWL+14a, SGRP18, YESK05, ZBMY14, vLBR+16].


Ecosystems [BCH+13]. Eddy [WPS+16]. Edge [BRH+17, BYA15, BBJ+12, BSL+14, BVB+11, CZQ+08, DSC+08, DSS+09, DRMM13, EHP+11, Ho06, HM10, LLC12, OKSK16, SHH11, SMNR16, TCM06, YSZ04].


Editable [GXH+13]. Editing [ATLF06, BKW08, CML+07, HLCB18, LZH+07, LHJY12, LZW+13, LSS+15, WM13a, WP16a, WCB+18, WQ07, XLND11, ZZL+15]. Editor [De 18b, DW17, GKR14, Lin11a, Lin14c, MY14, MFS+09, AD12, Ano05a, Ano05b, Ano13n, Ano14n, Ano15l, Ano16n, Ano16o, BvdP12, BDC17, BG11, CW11, De 15b, De 15a, De 15c, De 15d, De 16b, DS16a, De 17b, DS17b, De 18c, De 18a, DS18b, De 19b, DFQ12, Ebe00, Ebe03a, Ebe03b, Ebe04a, Ebe04b, Ebe06a, Ebe06b, Er07a, Er07b, Er07c, Er08, Er09a, Er09b, Er10a, Er10b, Er10c, Er10d, Er11b, Flo16, De 16a, De 17a, Flo17, GJK15, HK10, Hag99, Hag00, HE02, Hag03, HVY16, IKT15, Joy02, JLS15, Kau98, KL14b, LSCN09, Lin11b, Lin11d, Lin11e, Lin12b, Lin12c, Lin12d, Lin12e, Lin12a, Lin13a, Lin13b, Lin13c, Lin13d, Lin13e, Lin14c, Lin14a, Lin14b, Lin16a, MH10, Moo03, Mue19, MYM08, NSvW11, OO15, OA11, PZ12, Pur09, Qin09, Rus99, SK16a, SK15, SSL08, SL11].

Editor [SW17, Var01, WY19b]. Editor-in [Lin14d].

Editor-in-Chief [Ano13a, Ano14n, Ano15l, Ano16n, Ano16o, De 15d, DS16a, DS17b, De 18a, DS18b, De 19b, Er07a, Er10d, De 16a, Flo17, Hag03, Kau98, Lin11d, Lin11c, Lin12e, Lin12a, Lin13e, Mue19].

Editorial [Ano97b, Ebe07, Er07a, Er09a, Er11a, Kau95, Kau96a, Kau96b, Kau96c, Kau97, Kau98, KRTvW06, SGR06, SW06, BLM05].

Editorials [KN95]. Editors [CKSB14, vW11, Ano12g, Ano13o, Ano14o,
HBESB11, HAM11, HKKS18, IAIK16, IFM14, JNC15, JFBB10, KBB+12, KLMO4, KS00b, LKL+15, LDW+15, MUS16, MDS16, MOGI11, MSM+11, RSS14, SBS14, SBJ+10, THV+14, Zho16, KSO0a.

Estimators [BLM96]. Eternal [Bai13]. Euclidean [DPR00, KW05]. Euler [CAP18, RD10, RZP12, RSFH14, SAS16, SZHR11, SRHZ11, Wil12]. Eulerian [CM14, CMK15, JEH02, SWTH07, SXM17].

Eurographics [BvdP12, BDC17, KS14a, KL14b, MFS+09, SK15, AD12, CW11, Ota17, PZ12].

EuroVis [MYM08]. EVA [LGM+18]. Evaluate [DBP14, TTR10]. Evaluating [BW11, BBG+18, BJK+16, BPC+10, BBIF12, DBD18, GO15, GQM+18, HTP19, HSR18, IIC+13, KO12, KLD+09, KPR+14, LBS13, MHD+18, MBZB12, MTW+12, NAK18, OJEF19, PQMC17, PBC17, Ros11, SSRE18, SNDO5, SBW17, Vsa16, WZ08, ZLC+19, cKJG+12, SS19].

Evaluation [AJDL08, AZM12, ALBR16, AS05, BGP+11, BYB+13, BPS13, BTB10, BLIC19, BE09, Bru17, BGR06, BKH+11, BTJ+13, CCK07, COMP13, Cse08, Cse10, DRW16, DRHK07, EMdSP+15, FSTG16, FTES13, GLH+14, GHL15, HKBR+14, HMSA08, HKH+12, HQC+19, JRHT14, JF16, KGS+08, aKGS11, KKKT18, KOC14, KCHI12, KLL12, KDA+09, LLPP19, LT99, LD11a, LDA12, LFA+16, MLMF12, MY13, MK13b, MMMY97, MIO+15, NDM+97, NHB+17, NTS11, OBKP18, PFW09, PFW12, PWHK16, PFG08, PB16, RMW09, SSKB14, SD12, SFR+10, WAM+19, WR11, WKS05, WCA+17, XC19, YDGM17, cCMR07].

Evenly [LMG06, WLZM10].

Evenly-Spaced [LMG06]. Event [CvW18, CXR18, DFD+14, DSP+17, GS14, GZX+18, GJJ+19, KBB11, 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, WLIW10].

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

Exact [KL14a, KTCG17, Wi12, XLND11, 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, SZ11, XYS+16]. Exceptions [QH18]. Exchange [LBLE+14, YSZ+19]. Excluded [LBH14].

EXCOL [ZHF12]. Execution [EASD+19, IBJ+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, MMMY97]. Expectations [KRH18]. Experience [TUG17].

Experiences [HHH16, LLKN17, LSV+18, PGG12, RKA+13, WBA+14]. Experiment [SNB+17, SFL+16]. Experimental [BMGK08, BHz+18, BE09, BPS+11, FIBK17, KHSJ04]. Experimentation [KTC+19].

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

Expert [Gle13]. Experts [AJDL08, GHL18, aKGS12, TVE14].
Explainers [Gle13]. Explaining [GRS+19, PSM12]. Explanation [BW00].

Explanatory [RRJH18, WBE+06]. Explicit [FSHH12, LCS+12, ZCBB13].
Exploded [BG06, KLMA10]. Exploiting [GH95, VB13, WWL07].
Exploration [AZL+19, AMA08, BB0+18, BCT13, BBH+17, BMS17, BLAI17, BW0+17, BMWW18, BBP08, BBG+09, BVV+19, BWT+11, BGK06, BM10, BLG+16, CDDS18, CQC+08, CDZ+09, CCM+14, CZC+15, CGH+19, CSC07, CM08, DC17, DvVH+19, DSN+13, DFD+14, DCCW08, DSM+08, EDF08, ERHRF10, EDF11, EBB+15, FDPH17, FPH19, FPV+13, FMST96, GCL+15, GNB01, GBP010, GLK+13, GS06, GW11, HSS+11, HLR+08, HBJP12, HLR+12, IVJ12, JBMS09, JKM01, JKM07, JFY16, KAKC18, KLM+08, KKP+17, KBH06, KG06, LHD18, LMBR19, LPP+06, LS09, LMZ+14, LBK+18, LFI06, LGG+18, LKS13b, LS16, LW+17, LBT+18, LODI16, DSC+16, LBS+19, MJW+13, MV06, MI13, MLKS18, MTRP10, NM13, PN+13, PSSC18, PSTW+17, PLS+14, PM08, PS06, PHE+18, PTMB09, PFK+08, POM+09, ROK+13, RT12, SHM10, SKBE17, SM17, SYZ+18, SP+16, SKU+12, SYS+06, SS18, SPG14].
Exploration [TJW+17, TAE+11, TEC+16, TWSM+11, USD18, VMJC10, VJO9, WLI+12, WCZ+11, WYL+14, WFW+17, WWZ+19, WAG06, WMGE12, WDSC07, WS09, WZ+16, XMM+19, YEB16, YEB18, YHW+07, YSI+10, YDC+14, YRWH13, ZMH+09, ZK06, ZCBB13, ZSCC18, ZLDM16, dOL03, vHP09, vPB+10, vdEvW14, vdEHBV16, SKL+14].
Explorations [Gle13]. Exploratory [BE18, BWK+13, DPW+15, DB07, FPB17, GBWI17, LH14, LLZ+16, LTP+05, MLMF12, SKB+18, STM17, TWSS16, VMN+19, WMA+16, XYC+18, ZGC+17, ZCPB11].
Explore [CSWP18, HF06, HMF16, LPK+16].
Explorer [PGK16, BGM+17, GFG+14, NJBJ09].
Exploring [AAH+13, BDF+10, BDSW13, CwV18, CHW+18, CG14, DWY+13, EIKS18, FSW09, FH07, GW+18, GWF14, GJ07, HF11, JDL09, JDL12, KBL19, KC14, LPCC17, LSB+16, LYK+12, MB19, MAAB+18, PGFS16, PBC17, RGFL14, RB11, Sed15, SAM+05, SDW11, STS+14, TIW+19, WM18, Wen14, W12, WCs+18, YLZ+13, ZWJZ12, vGMSW15, GMD+17].
Exponent [BGT12]. Exponential [CAP18].
Exponents [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, KKE17, RHY14, YEB18].
Extended [CMFL16, GPL+13, GGP17, IMS15, KWP01, PLW11, PGI+17, RWBF18, SSS13, VDKS12, vdEhHcW14]. Extending [FDFR10]. Extensible [MWN+19, WSD+13]. Extension [DKC+12, TLH10, TUG17]. Extensions [BBP08, EM06]. External [CMRS03].
Extract [ZH12].
Extract-and-COnplete [ZHF12].
extracted [BW0+17]. Extracting [AAH+13, GGL+14a, GPP+16, JCWD14, PMH18, YFM01, YSZ+19]. Extraction [Ano96b, AE13, AJ19, BDSS18, CML+07, CMM+97, DS16b, ESN+09, ENS+12, GSD104, GH95, GLK+16, HKG07, KHL99, KGP+13, LTPH17, LCC15, LBH11, LLRR08, LX19, LSJ96, MS08, NN11a, NN11b, NKH11, OMD+12, RL08, RKZ19, SP07, SS10, SJ06, SWF+16, SH06b, VAB12, WL08, WC09, WC10, WM13b,
WPB$^{+11}$, vWPSP$^{09}$. Extrafoveal [TUG$^{17}$]. Extrema [IK$^{95}$]. Extreme [BMA$^{+19}$]. Extreme-Scale [BMA$^{+19}$]. Extremum [TN$^{13}$, XHT$^{+07}$]. Extruded [SM$^{09}$, SM$^{11}$]. Eye [AJ$^{17}$, AAM$^{+12}$, AABW$^{12}$, BPS$^{13}$, BKH$^{+11}$, DTT$^{+17}$, FGBB$^{09}$, JA$^{18}$, KDX$^{+13}$, KW$^{13}$, KH$^{+16}$, KHSW$^{17}$, LMD$^{12}$, MS$^{+11}$, MVN$^{+19}$, NBW$^{14}$, OTKS$^{15}$, OIR$^{+17}$, RWBF$^{18}$, WXY$^{17}$]. Eye-Controlled [OTKS$^{15}$]. Eye-Mark [MSM$^{+11}$]. Eye-Tracking [AJ$^{17}$, JA$^{18}$, KW$^{13}$, MVN$^{+19}$]. Eyeglasses [CDAF$^{18}$]. Eyes [KRH$^{18}$].

Fabricating [AIS$^{18}$]. Fabrics [ZBZ$^{+13}$]. Facade [AYRW$^{09}$]. Facades [FWZQ$^{13}$]. Face [CFPW$^{+18}$, KEPO$^{8}$, LJZ$^{12}$, OJEF$^{19}$, PZ$^{07}$, PQF$^{+09}$, SLS$^{+17}$]. Face-Centered [KEPO$^{8}$, PQF$^{+09}$]. Face [LDM$^{12}$, MSM$^{+11}$, ZPP$^{05}$]. Face-Face [FWZQ$^{13}$]. Feeler [SM$^{09}$, SM$^{11}$]. Feedback [NB$^{95}$]. Feedback [AMA$^{11}$, BHB$^{04}$, GUO$^{00}$, HH$^{10}$, HL$^{09}$, WFM$^{+05}$]. Fault [WB$^{+12}$]. Fauxvea [GJC$^{+11}$]. Favre [MFS$^{09}$]. Feasibility [SB$^{14}$]. Feature [ALMF$^{19}$, AFRS$^{05}$, BKRE$^{19}$, BL$^{+11}$, CCM$^{+13b}$, CRT$^{04}$, CMN$^{13}$, CSCO$^{6}$, CJTM$^{05}$, DANS$^{10}$, FPY$^{10}$, GKK$^{+12}$, HLR$^{+08}$, HYB$^{+17}$, KHL$^{99}$, KBP$^{14}$, LHZ$^{+07}$, LWCS$^{96}$, LH$^{09}$, LW$^{+16}$, LDC$^{16}$, LWC$^{+18}$, ME$^{18}$, MWCE$^{09}$, MK$^{13a}$, MDM$^{10}$, MOG$^{11}$, PYW$^{+16}$, PSR$^{17}$, RKWH$^{12}$, RGC$^{+14}$, SYM$^{14}$, SM$^{17}$, SS$^{06b}$, SRML$^{07}$, VKG$^{05}$, Wan$^{06}$, WWLM$^{11}$, WSW$^{16}$, WTPV$^{11}$, WMK$^{13}$, WMGE$^{12}$, ZAM$^{11}$, vWPSP$^{06}$, CJR$^{07}$, LSC$^{08}$]. Feature-Based [BKRE$^{19}$, BL$^{+11}$, ME$^{18}$, MK$^{13a}$, RGC$^{+14}$]. Feature-Driven [WMGE$^{12}$]. Feature-Insensitive [AIS$^{18}$]. Feature-Preserving [FWZQ$^{13}$]. Feature-Driven [FXCM$^{06}$]. Factories [AMA$^{07}$, CC$^{08}$, DW$^{14}$, DS$^{16b}$, EHBA$^{11}$, GKK$^{+16}$, GDKB$^{17}$, HK$^{+17}$, YHR$^{+19}$, YON$^{06}$, LSC$^{08}$]. Feed [PZ$^{05}$, WXY$^{19a}$. Feed-Forward [FXCM$^{06}$]. Feedback [BKA$^{+11}$, HOG$^{+12}$, KFN$^{06}$, LBHW$^{18}$, RB$^{11}$, WWL$^{+10}$]. Feel [JDL$^{15}$]. Feels [GLM$^{+17}$]. Feiner [ANO$^{14d}$. Felix [SP$^{+16}$. FEM [JDSR$^{+18}$]. Ferns [SGCI$^{15}$]. Fetus [MMK$^{+17}$]. Fiber [BWW$^{+17}$, BV$^{+15}$, JDL$^{09}$, KTCG$^{17}$, RBN$^{+19}$, TC$^{17}$, WK$^{+17}$, WY$^{19a}$, ZCL$^{08}$]. Fiber-Clustering [ZCL$^{08}$]. Fiber-Level [WY$^{19a}$]. FiberClay [HRD$^{+19}$]. Fibers [CDZ$^{+09}$, SSC$^{+16}$, SS$^{08}$].
<table>
<thead>
<tr>
<th>Fibrous</th>
<th>[MMYK06a]</th>
<th>Fidelity</th>
<th>[BBG+18, BZGV14, CS18, CPK+05, HWA15, LBS14, MWCRO6, MBZB12, RYL+18, RPHI08, SJC+09, VBC+16].</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiducials</td>
<td>[HR11]</td>
<td>Field</td>
<td>[Aho05c, Ano14h, BES12, BW08a, BBG+18, BJ+19, BSEN18, CML+07, DANS10, DGBW09, DFR00, DTT+17, FBB16, FCL91, FSE12, GPR+01, IK15, AIK16, IMS15, JDST+18, JHW+14, KDBB17, LJJ+10, LKJ+05, LKC09a, LH16, LHH16, LBZ+11, LL04, LPG15, MK13b, PW05, PLC+11a, PBL10, PGL+12, QPNK18, RKS13, RBK+15, RBN+19, RWBF18, RLL+13, RBDG15, RT12, RKKZ19, SKMR98, SZH97, TN11, USE13, WLI+05, WSY07, WHLD17, WASK18, WZF+04, WT10a, YHLJ08, YCLJ12, YLK12, YNBH11, YXM+15, ZAG96, ZHT07, ZFS19, LLRRO8, WSW16].</td>
</tr>
<tr>
<td>Filter</td>
<td>[ZSB17]</td>
<td>Fine-Grained</td>
<td>[LFWF18, RLS18, RLH11, RLL].</td>
</tr>
<tr>
<td>Filters</td>
<td>[LS02]</td>
<td>Finger</td>
<td>[LBS10, PQMCR17, PZ11, PYW+16, PvdcB+11, PMW13, RKG+11, RKWH12, SCT+10, SHM+07, SWC+08, SK08, SB04, SWC05, SRW+16, SCKR08, SBW17, SH00b, SZ12, SS13b, TWc+18, TWHS05, TN13, TN14, TP12, WC09, WCI0, WTVP11, Wen14, WJE01, WP05, WGS07b, WPL96, YQK+17, ZWZ+13, ZSL+16, ZBG+17, ZFP05, vLdL03].</td>
</tr>
<tr>
<td>Fitting</td>
<td>[VTR10]</td>
<td>First-Person</td>
<td>[LS+19, TMDO15].</td>
</tr>
<tr>
<td>Fits</td>
<td>[LS+19]</td>
<td>First-View</td>
<td>[LS+19, TMDO15].</td>
</tr>
<tr>
<td>Flat</td>
<td>[LHS+14]</td>
<td>Flat-Shaded</td>
<td>[LSW16].</td>
</tr>
<tr>
<td>Flexible</td>
<td>[BPG12]</td>
<td>Flat-Shaded</td>
<td>[LWS+16].</td>
</tr>
<tr>
<td>Filament</td>
<td>[LSY+16a]</td>
<td>Filament-Mesh</td>
<td>[LSY+18, MK09].</td>
</tr>
<tr>
<td>Filaments</td>
<td>[SNK+16, ZW07].</td>
<td>Filament-Mesh</td>
<td>[LSY+18].</td>
</tr>
<tr>
<td>Filesystem</td>
<td>[BYB+13]</td>
<td>Filling</td>
<td>[BB12, MSSH14, MM08, Wen14, WFM+12, DSF+14, WFG+19].</td>
</tr>
<tr>
<td>Floorplan</td>
<td>[SWF+16].</td>
<td>Floor</td>
<td>[AHK+17, AH11, Ano14h, BS95, BT13, BB07, BMLC19, BJ+12, BPB14, BPM+13].</td>
</tr>
</tbody>
</table>
BMST97, BPS+11, BSV11, BHSH15, CFM+13, COJ15, CDR+18, DMC+12, ES01, FC95, FPH+08, GTHG07, GNBP11, GST16, Guo09, GZL+14, GZ14, HMT19, Har16, HEWK03, HLNW11, HLG+14, HZ13, HPC+13, JKLG08, JEHO2, JCG08, JM10, KLC09, KSG+16, KBE+18, KHS+18, KJW+18, KM96, KGP+13, KGJ09, KGG+12, LvWJH04, LGV+16, LM05, LCS+12, MEB+14, OJ12, OJCP16, PW95, PH07, PW13, RKWH12, 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, VP04c, WRF+11, WZF+04, WTVP11, WSE07, Wen14, WGS07b, WRT19, WG12, WT10b, WYM12, XLS10, YDG17, YDJ+19, YLK12, YS17, ZYL09, ZWZ+13, ZT09, vPBB+10, vPBB+11, vFTWTS08, CR106, LTH08.

**Flow-Based** [DNC+12, KLC09].

**Flow-Sensitive** [KGG+12]. **FLOWLENS** [GNBP11]. Flows [CVC10, FC95, GT17, GT19, GHP+16, HPAW07, KKKW05, LCC+17, LXT18, SHV16, SvdBLM11, VHL14, WSTH07, WSO1]. **FlowVizMenu** [VMCJ10]. Fluid [AB06, ATT12, BTT09, CMF12, DRW16, GLRH13, GTHG07, GT19, KWC+10, LGS+11, LTFK08, VHLL14, YES05, ZWJ12]. Fluids [BB07, BK17, BLS12, CMHL11, HMT10, KAK+07, MEB+14, PT17, ySKK07]. Flux [GPP+16]. Fly [ZD18]. **FlyAR** [ZHLR14].

**FlyCap** [XLC+18]. Flying [PLE+18, XLC+18]. **Flythrough** [CORLS96]. Foam [KLCK17, LLCD11]. FoamVis [LLCD11]. Focal [BE06, IMS15]. Focus [CWK+07, DSP+17, FHS+12, GNBP11, HS11, LHC10, QWC+09, TWSK14, TS08, VFSG06, WLT08, WC11, WWM11, WP16b, ZZG+12, vLBB16, zBBKN14, CDAF18, Kin10, NH06]. Focus-and-Context [GNBP11, zBBKN14]. Focus-Dependent [CWK+07]. FocusAR [CDAF18]. Focused [BDW+08]. Focusing [BW00, GDKB17]. Fold [NMGK17].


Formations [WXW+19]. Forms [Elh98, S Zy+18, Wea09]. Formulation [SCT06, WT10b]. Forums [FZC17]. ForVizor [WXW+19]. Forward [CLEK13, HKH+12, PSM06, WXKP14]. Four [BVW+07, HB13, SBZ+09, TSA14].

Fourier [ES05, DNP07]. Foursquare [KTE15]. Fractal [CHF95, CHF96, KWe10]. Fractals [VML97]. Fractional [KBVH17]. Fracture [AHK+17, GMD13, Vis15]. Fracturing [BHTF07, GSKM+14].

Fragrance [HQS18]. Frame [HM95, JH+14, KPR+15, MPT03, SSB+17].

Frame-Rate [SSB+17]. Frame-to-Frame [MPT03]. Frameless [FSTG16, PK16].

Frames [SWTH07, SM17]. Framework [AT05, Bac07, BKDE00, BDSW13, BC12, BTS+18, CJ10, CVG13, CMPC06, CC12, D1V5, DK11b, DNN13, EMP09, EASS+18, GKM+15, HDSC19, HMZ+14, JKM10, KGD+19, Lam08, LP02, LNS08, LWML18, ME19, MMH+13, MAM14, MCM19, MP13, NM13, NDR96, PFH07, QT96, QK04, RESC16, RRJH18, SE17, SBM+06, SHB+14, SS06b, SP+16, SLK+17b, SNR14, THM15, TWSK14, TWC+18, TCM10, VMN+19, VP15, WJA+17, WSD+13, WSS+18, ZWJZ12].
WLS+19, WLLM13, XHT+07, XXM19a, XLS10, YYY16, YDC+14, YS17, ZWM+19, ZAM11, ZKG07, FHL10. Frameworks [BVW+07, CAN14]. Framing [HD11]. Frankenrigs [MAF11]. Fraudulent [LGM+18]. Free [AL11, BK17, BC18a, DQ07, ELF13, FvdPT97, GD01, JHHG08, KV98, LLB+06, LDX10, LCM12, MZS15, MS+11, OMD+12, RSB96, SH00a, SK99, St198, TYSN06, Wan08, LWWˉ+18, WQZ+18, LGV+16, THT19]. Free-Form [AL11, DQ07, GD01, RSB96, St198]. Free-Viewpoint [LDX10]. Freedom [CMHL11, JWC05, ORC07]. Freeform [LKS13a, ZK14b]. Freehand [JK16]. Freely [BVW+07]. Frequency [BSS+13, BLN96, GPL11, HX+15, HQ13, LHLW10, OMD+12, SHR+11, WPC13, XJF+08]. Frequency-Based [GPL11]. Friction [KKKT18, SSIF09]. Friction-Based [KKKT18]. Frictional [SLNB11]. Friendly [VPF15]. Frits [ANO11c]. FromDaDy [HTC09]. Front [ANO09e, ANO11b, ANO14i, ANO15f, ANO16i, ANO16j, ANO11j]. Fronts [KHS+19, ZK14a]. Frustum [CLT+08, WHL16, LCM07, CLT+08]. Frustum-Traced [WHL16]. FTMS [BvL06]. Full [AdLH13, KFL+15, LWP+06, TZL+12, WLL+16]. Full-Body [AdLH13]. Fully [CPW+18]. Function [BMWM06, Gor02, IWR+18, KMG+06, LWS+17, ME18, MWC09, MJW+13, SSK06, SG09, Sel15, SP96, WZK12, WQ07, ZWZD15, ZTO9]. Functional [BKDE00, BSL+14, DWBR06, FCSF17, HPNT18, JV09, JEG12, LSS+18, MF11, VAW+17, WSL12, tCMR08]. Functions [BEHP04, CR08, CM08, CM11, EMRY02, EDW19, FGF+05, GBP010, GGQP17, GNP+06, GNP07, JWD+14, KM96, KKH02, LF97, LHLW10, LLL+12, LLL+10, LH+04, LLY06, NHPN14, RE01a, SCT06, SSC+16, XJF+08, YCLJ12, ZDW+05, vAPP+11]. Fundamental [XYGL13]. Funding [MEV+14]. Furniture [KHLM17, ZGM18]. Furry [QCH+14]. Further [AMA06]. Fused [LDH09, PPvA+11]. Fusing [CM16, WLDW11, YYFX18]. Fusion [BBB+12, LKR+18, WHR02, ZNZX16]. Future [VF16, KJH+18, Min13, NJ16, Sat13]. Futzling [AZL+19]. Fuzzy [FM12b, SJL+18a, SB04, VWR13, ZLC+19]. FWP [XWL+15].
[AA11, MWK14]. Generalized [BDHJ04, CCM13a, GMD+16, HB13, HLCB18, IHR01, IML13, JR07, LLWQ13, LWZ+16, QLLM13, TP12, VvWvdL06, WTS+07]. Generate [IHK05]. Generated [DLF+09, JDA+11, SGJM18, vHR08].

Generating [DC17, KNPO4, KCC+17, SG09, SRHZ11, THM15, WF+06, WHM14, ZFL17].

Generation [ALM11, BB09, BKRE19, BMW17, CK05a, CCM11, ERL+13, GKT+08, HW95, IYK01, KLM+08, KDBB17, KBH13, LHJ+18, LS07b, LML+18, LSV+18, MWCE09, NLS11, SSS+14, SRM+09, TW18, TLL+12, VABW09, WZC+15, ZLZY18, ZT09].

Generations [FDC+18]. Generative [KTC+19, LSC+18]. Generators [LMD12].

Generic [DH02, GW06, HPJG08, LJH+18, VCP08].

Genes [SAB+16]. GeneShelf [KKL+09].

Genetics [NKHC08]. Genome [BGM+17, LBK+18, NBJ09]. Genomes [WWFT03]. Genomic [ADG11, ORRL10].

Genomics [GHL18]. Genotet [YDC+14].

Genus [RVWT08]. Geo [CS18, CYW+16, NASK18, PSKN06].

Geo-spatial [PSKN06]. Geo-Statistical [NASK18]. Geo-tagged [CYW+16].

GeoBuilder [WT+09].

Geodemographics [SDW11]. Geodesic [DdL14, HLD+08, PZLZ17, WT10b, XF12, XWL+15, YSS+12]. Geographic [Fis07].

Geographical [TSH+14]. Geographically [DB07, YDGM17].

Geographically-Embedded [YDGM17].

Geography [GDST16]. Geologic [CRB+05].

Geology [CCB+18]. Geometric [AIS18, BDJK98, BMP08, BGK11, BGR06, CGL+17, CZN+11, CCM+13b, DBM+06, DVC18, DQ07, GNCM+16, HOT98, HHZH17, HLYL18, KBB+12, LM96, MTB17, MTB18, PWG17, QT96, RF11, SK99, TD95, TL07, WHR02, WTL+09, YNMI5, ZHL+09].

Geometric-Semantic [BGR06].

Geometrically [FST+14, LSS+15].

Geometrically-Correct [FST+14].

Geometry [BSS+13, BDHJ04, BBK07, BW08c, CZQ+08, DMC+12, DdL14, DSKA19, FH16, GBP12, GKL+16, HDJ05, KV03, KSY16, KV08, LHV06, LBZ+11, LJJZ12, MCK12, MDS16, PH08, RYKL13, RNK+15, SMG+13, SCOIT05, VB13, YL08, ZLG+06].

Geometry-Aware [SCOIT05].

Geometry-Based [CZQ+08].

Geometry-Dependent [LHV06].

Geometry-Driven [ZLG+06].

Geometry-Invariant [RYKL13].

Geophysical [KSDD14, WPB+11].

Geoscientific [USKD12].

Geospatial [BDW+09, TMH+10, ZMT+19].

Geotagged [JHR10].

Geovisualization [KMM+13, LDI1b, Rot13, WDS07].


GL4D [CFHH90].

Glance [HE99, RMCM19, YDK+18]. Glanceable [BBB+19].

Glass [BR06]. Glimmer [IMO09].

GLO [SKL+14]. GLO-STIX [SKL+14].

Global [LWC+18].

Globally [JFZ+18, LBG+08, SJH10, ZM13].

Globbing [GHA+08].

Globe [BAB+18].

Glossy [WXK14]. Glyph

[DTW+15, KW06, KBBH13, MRSS+12, MSSD+08, TLS17, ZSL+16]. Glyph-Based [DTW+15, MSSD+08, ZSL+16]. GlyphLens [TLS17].

Glyphs

[FIB+14, FIBK17, GRT17, HNLI11, JKM06, PW13, SK10, SBW17, WPL96].

GMM [LWC+18]. GMM-Inspired
Grounded [LKH+16].
Group [AAB+13, BKKF13, GFG+14, JRHT14, SSKB14, tCMRO8].
Group-to-Group [BKKF13].
Grouped [YDG+16].
Grouper [LGLR14].
Grouping [BW14, SSEW19, YESK95, GSL14].
Groups [BOP15, DSC+08, KO12, ZCJH12].
GrouseFlocks [AMA08].
Growing [MDS16].
Grounded [LKH+16].
Guarantees [BLW14].
Guest [BSI18, BRS18, CGGR18, CKB14, DW17, GKR14, KRTvW06, MY14, OO15, SGR06, SW06, AD12, Ano12g, Ano13o, Ano14o, Ano16p, Ano16q, BvdP12, BDC17, BHTY15, BGK11, BKL18, BLRW05, CCH14, CLS07, CW11, CFK12, CLS13b, DFD+14, DCH+17, GSPJ08, KOJC12, LBZ+11, MFZ+17, PBN+13, PRH10, QM08, SKB+18, TCM+12, WAG06, ZHZ15, KV06].
Guidelines [EF10, JF16, KHA10, SOK+16a, SOK+16b].
Guides [KSls+17, PTM+18].
Guiding [WL+14].

Hair
[CZZ17a, LHBF19, WBK+07, YJL+15].
Hair-Solid [CZZ17a].
Hair-Water [LHBF19].
Hairball [IBJ+14].
Hairstyle [CK05a].
Hairstyles [VMT06].
Hairy [SBW17].
Half [MSM+11].
Half-Silvered [MSM+11].
Halos [BG07, EBR09].
Hamilton [JFTW07].
Hand [SB+18, CLL08, CLL12, CGB+13, HSR18, TRL+19].
Hand-Drawn [CLL12, TRL+19].
Handheld [PTM+18, WL+18b, ZJH+11].
Handles [ZWR14].
Handing [CMF12, CRPH10, HDDC15, PLW12, SH12].
Handoff [ZGI+18].
Hands [MUS16].
Hands-On [MUS16].
Haptic [AB01, CMHL11, CGB+13, DDKA06, EPS+15, FM06, GLM+17, JAO+14, JWC05, KFN06, LA11, MTS07, ORC07, PCY08, PIS15, SO17, TPL+18, WK12, WZW+05, ZK17, ZH07].
Haptics [BLRW05, HSR18, HBKS09, HQ04, NMN+18, STH13].
Haptics-Based [HQ04].
Hard [LYY08, WHL16].
HARDI [PPvA+11].
Hardware [CICS05, FM07, GLM06, GUO00, JvdLR13, JFTW07, KXX+18, LMC02, MK09, QM06, SPM+13, SR00, WWL07, WKE03].
Hardware-accelerated [FM07].
Hardware-Assisted [CICS05, LMC02].
Hardware-Based [WKE03].
Hardware-Decompressible [KXX+18].
Harmful [CG14].
Harmonic [YCL12].
Harmonics [BZGV14, LLV06, LPG12, ZTZX13, ZT09].
Harmonization [FCZ15].
Harnessing [McK09, PBE19].
HART [NK+15].
Hashed [WM19].
Hashedcubes [PSSC17].
Hasse [CdOKRV09].
Hazard [Zha14].
Hazy [ZHC18].
HDF5 [BSO+12].
HDR [YNCP06].
Head [BSEN18, CPW+18, CDK+17, DFG+14, GMS18, HHH+18, HWK16, HRIS15, HV00, IK15, IDA15, IAIK16, KBB+12, KRA16, LCR16, LMD12, LH16, LHC10, LRYR18, MZH+08, MIO+15, dJOBN17, OTKS15, PIN+15, PGI+17, QPNK18, RKS13, RSB17, SGQ16, SHV+18, SBK+11, XST+18, KNR17].
Head-and-Eye [LMD12].
Head-Motion [LRYR18].
Head-Mounted [BSEN18, CDK+17, GIMS18, HHH+18,
HRISHI15, IK15, IDAK15, IA1K16, KBB+12, Kra16, LCR16, LH16, LHC10, MIO+15, dJOBNM17, PIN+15, PGI+17, QPNK18, SBK+11, XST+18. **Head-Track** [HWHK16]. **Head-Worn** [DFG+14, CPW+18]. **Heads** [DH08]. **Health** [HHO+17, KKL+16, MMK+17]. **Healthcare** [ZWA+13], **Heart** [BGP+11]. **Heat** [GWK12, GSZ+13, KLG+16, ZHF+07]. **Height** [BES12, GYO2]. **Height-Field** [BES12]. **Heightfield** [CMK15]. **Helmholtz** [BNPB13a, BNPB13b, BBP14, PPL+10]. **Help** [KNKH19], **Helping** [LBW19]. **Hemicubes** [Max95b]. **Hemodynamic** [GLV+12]. **Hemodynamics** [MVB+17, OJCJP16]. **Heritage** [LTPH17]. **Hertz** [BDF16]. **Hessian** [ZPP05]. **Heterogeneity** [HCP+15]. **Heterogeneous** [AWB11, CDC+07, CCQ+14, GSA+09, HKC+12, KMDHI11, KLL+13, KSY14, LPC117, SMER06, SSL+12, VIS15]. **Heuristic** [PBN+13, WAM+19]. **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, SRGP18]. **Hiding** [KSNY17], **Hierarchical** [AHL+13, Bac07, BKM13, BWK+13, CLCQ12, CDS+12, CSWP18, CLWWW14, EF10, FKRW17, GW11, HSW11, HPvU+18, Hol06, HFL18, IVJ12, IYIK04, KHOD2, KMT14, LBGV13, MV06, MB01, MT01, PLC+11b, PM08, SST+17, SG09, SII95, SD09, SJO9, TS07, VC17, WJX17, 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, HJW99a, HJW99b, HSZ+11, LSJ+15, MB18b, SBS11a, Szy13, VHS16, WBH04]. **High** [ALM11, Ano09b, BMPO1, BHWB07, BZGV14, BSL+12, BVLO6, ChLYL09, CPK+05, CAN14, CF10, Cse13, DAW13, DK11b, FAW10, GPL+11, GPW10, GS14, GLX+18, HBKS09, HE06, HBU4, HAM11, KPR+15, KB14, KHZR18, LRP07, LAM10, LYS+10, LMO+14, LKL+15, LJL04, LT16, LBH18, LWW+07, LCPD13, LMG+17, MCK12, MNBW07, MSHC09, NB05, NM13, NHH11, NLM12, NKH14, NW11, OHJ+11, PNLO8, RZHB+08, RYL+18, RPHO8, SKK06, SSB+17, SS06, SSF09, SS06b, SRC02, SRC03, SHC+09, SB14, SPW07, SLW+10, SJK+12, TAE+11, TFH11, TLL12, TKBH17, JW08, WSPVJ11, WM13a, WM18, WD09, WAG06, WSM98, WPS+16, WDW16, XYC+18, XMM19a, YHJ+17, YDG+16, YNCP06, YRWG13, ZK06, vAPP+11]. **High-Density** [LBH18]. **High-Dimensional** [ALM11, DAW13, GS14, LMK+14, LT16, LMG+17, NM13, OHJ+11, SS06b, TAE+11, TFH11, TLL12, TKBH17, WM13a, WM18, WAG06, XYC+18]. **High-Dynamic-Range** [SLW+10]. **High-Fidelity** [CPK+05, RYL+18, RPHO8, SHC+09]. **High-Level** [BVLO6, NB95, SKK06, SRC02, SRC03, SPW07, WD09]. **High-Order** [BSL+12, MCK12, MNBW07, NHH11, NLM12, NKH14]. **High-Performance** [DK11b]. **High-Precision** [PNLO8]. **High-Pressure** [SB14]. **High-Quality** [Ano09b, BMPO1, BHWB07, CF10, Cse13, FAW10, GLX+18, HE06, HBU4, HAM11, LYS+10, LKL+15, LJL04, LCPD13, MSHC09, NW11, RZHB+08, RPHO8, SS06, SJK+12, YDG+16, ZK06]. **High-Relief** [YHJ+17]. **High-Resolution**
Ano16a, Ano16k, Ano17k, Ano19d, BHK14, BHTY15, BKL18, CR08, CCH14, CLS13a, DS17a, DS18a, DW17, EDF08, Ert10c, GMM05, HXK13, IHK+17, Joy02, JLS15, KHE09, KKL11, KHSB11, LSCN09, LST+16, MW13, NsvW11, RwWT05, Sil17a, Sil17b, Sil18a, Sil18b, Sil19, vWMT04, vW11, Ano17e, Ano18a, Ano18b].

iForest [ZWLC19]. iForum [FZCQ17].

Illustrated [SZH97, ZM13]. Illuminating [EDK10]. Illumination
[AZD17, BB09, BKA+11, BZGV14, DBW+06, HXF+15, JKRy12, JY17, KSY14, KGPB05, KPR+14, KJL+12, LR11, MB18a, NW10, NDR96, QXF+07, RBDG15, RJG17, SMP11, Sil95, SS95, SEB19, SYR11, WB08, WSE07, WLWD11, WPSH06]. Illumination
[SNB+17]. Illusions [BWL12, PDBG18]. Illustrate [LMS03]. Illustrating [PGT+08]. Illustration
[BPG12, CYZ+09, CSC06, JCRs09, KZL07, RE01h, RHD+06, SEA09, ZHX+11].

Illustration-Inspired [JCRs09, SEA09]. Illustrations [Elb98, LCC+17]. Illustrative
[BWF+10, BGK06, CFM+13, CSC07, EBRi09, HGH+10, LMT+03, RBG07, VI18, WGM+08, WBE+06, XHT+07, vPvWd10]. Image
[Ano10e, ADP02, BW03, BW04, BBH+17, BWW+07, BS02, BTC10, Bro06, CTM+13, CMF+18, CAH+13, CMSW04, DMC+12, DMR04, DZL+14, DWK+16, DL03, DHM13b, EHBA11, FwQz13, FTB+13, FYF+18, FGGB09, FWT+04, FZC+07, GO15, GPC+17, GSPJ08, GGZ+18, GDKB17, HKC+12, HSR13a, HSR13b, HSSK16, HLCB18, HLD+08, HPC+13, IHK05, IDW+13, JST+10, KLC09, KSY16, Kojc12, KCS+16, KOjl+14, KHP507, KOF08, KHI+16, LBD13, LvWJH04, LRJN96, LWCS96, LG13, LS07b, LSWz17, LLG17, LHFY12, LCC15, LR11, LY12, LSS+15, MS08, ME09, Nzs+17, NDR96, Pj03, PGL+12, PBCRI11, PPM+11, PMD+07, STB18, SGB13, SSB+17, SZK15, SK13, SKP07, SSW18, SYR11, TWSM+11, Vas16, WW07, WGS07a, WWC+14, WFS+16, WWF+19, WJr+13, XLND11, XFR0, YCZ+16, YL08, YCLLO8, ZHI15, ZWS+17, ZJX+15, ZKG07, vCdW14, vLBB16].

Image-Based
[BW03, BW04, BBH+17, Bro06, CAH+13, FwQz13, FGGB09, FWT+04, HSR13a, HSR13b, KHI+16, LS07b, NDR96, Pj03, PGL+12, STB18, SZK15, WW07, WGS07a, WFS+16, WWF+19]. Image-Centric
[KOJL+14]. Image-derived [GDKB17]. Image-Recoloring [KOF08]. Image-Set
[HKC+12]. Image-Space
[CMSW04, HPC+13, ME09, SKP07]. Image-to-Geometry
[DMC+12]. ImageAdmixture [ZCJH12]. Imagery
[ASG15, BKE10, BJA+19, BMW17, CYZ+09, CWC+06, CMM14, DMR04, DHM13a, ERL+13, FWT+04, FBS05, GQM+18, Hu16a, HNR+06, IV11, JDA+11, KPR+15, KZD+10, KCC+17, Kcw13, LAK+11, LwyM12, LNHs16, LLR18, LPA19, MXW+13, NRS15, OHh06, PZLZ17, PMH18, SKYS14, Sim07, SLK+17b, SN07, SJM14, SJK+12, TZC13, WLWl10, WQ07, XDN11, YL16, YFFX18, YFM01, ZDL03, ZHC18].

Imaging
[KBH+10, MNK10, PIN+15, RB18, SHC+09, TT05, XSZ+17, vAPP+11]. Imagining
[HKK18]. Imitation [ZJH+11]. Inmaterial
[LDH09]. Immersion
[DHL09, LSSB12, LBS13, Oh18, SBS16, SHV+18, WGR+18]. Immersive
[ANR+18, BGC+11, BS+18, BKKF13, BL15, BIPS12, CB15, Cdk+17, DRHK07, ES01, GPL+13, GS16, KNR17, KBS13, KMLM16, LLK17, MWC06, PGRS13, RBLW07, SM12, SLc+19, TIS16, TAY02, TUG17, VSS08, YDJ+19, ZKM18]. Immiscible [MEB+14]. Impact
[ARH+15, AN13, AAM+12, HCP+15,
Impacts [MZ08]. Imperfect [BJ07]. Implant [DBGW09, DBW11]. Implantations [BSR+14]. Implementation [BC18a, JPD+18, ME09, NDR96, PD04, WZC+15, WR11]. Implementations [MPG+14]. Implications [BMWM06, aKGS11]. Implicit [AG17, BHS12, CGD97, DQ07, Elb98, FGF+05, HQ04, LCS+12, MGM19, SHS11a, SN10, WFM+05, WWC+14, XZB14, YT02, ZG12, ZCC13]. Importance [CDBR14, Ch03, KW14, KDM+16, LPG15, MDHB+07, PBPP11, RvWT08, VKG05, VFSG06, WZC15, WR11]. Importance-Driven [KW14, VKG05, VFSG06, WYM08]. Impossible [LYY+16a, SLF+12]. Improve [HKKS18, LCL+19, SLMA06, VB13]. Improved [EHS13, GBP19, JPLˇS16, LY06, MPK+13, PFP+11, WM19]. Improvement [HYB+17, SAS16]. Improvements [DRW16]. Improving [DSS+09, HBF08, JDA+11, KFN06, LLD11, LWS+17, LB03, OPH+16, RSS14, SCKR08, VPB+11, WHA07]. Impulse [WG08]. Impulse-Based [WG08]. Impulsive [SM04]. In-Depth [KJV+14]. In-Place [PBA10]. In-Progress [SPG14]. In-Situ [WKSS05]. Inbetweening [Yan18]. Inclusion [KBE+18]. Incomplete [KLC08, LLR18]. Incompressible [BK17, ICS+14, SP06]. Inconsistency [LLC15]. Incorporating [HOG+12, KLCK17, MFS+09]. Increased [MPG+14]. Increasing [BE06, SCKR08]. Incremental [DKM06b, KLM04, PSM15, PML97, SASS16]. Independent [PBA10, SM09, WKME03, Zha14]. Index [Ano97a, Ano98, Ano09, Ano00b, Ano01a, Ano02, Ano03b, Ano04a, Ano09a, Ano09d, Ano10a, Ano10e, Ano11a, Ano11e, Ano12a, Ano12c, Ano12d, Ano13h, Ano13a, Ano14a, Ano14c, Ano15c, Ano15a, Ano16f, Ano16g, Ano16a, Ano17c, Ano17d, Ano18a, Ano19a, CDS+12, Ano13g]. Indexed [ZW18]. Indexed-Points [ZW18]. Indexing [BG04, CBL07, CdOKRV09, HK09, SR17]. Indicator [EDvW19]. Indicators [ALBR16]. Indirect [ACTM12, NW10]. Indirectly [RKC+16]. Individual [BOP15]. Indoor [PZLZ17, YTY16, ZX18, ZGM18]. Induced [Hu16b, WTS+07]. Inductively [SRHZ11]. Industrial [AHR+11, GUM15, HLRS+08, RGK+13, SLMA06]. Industry [KAK18]. Industry-Scale [KAK18]. Inelastic [WLT18a]. Inertial [GT14, GT17, SJ+17]. Inference [BK12, GHL18, LLL+19, BDM+17, WCHB10]. Inference-Based [BK12]. Inferred [ZDJ+09]. Inferring [EFN12, VABW09]. Infill [WAWS18]. Infinite [Bai13, 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, BDSW13, BEDF16, BBB+12, BE09, CLS+12, CJ10, CGJM19, DBD17, DCCW08, DRRD12, DLR09, ED07, EDF08, EF10, FWR00, GTS10, GTS11, HW12, HA06b, HMM00, HSC08, IC07, IIS14, JH13, JH1K13, JS08, JRHT14, Ke02, KCA16, KSL+17, KJW+18, KC14, LMK07, Lam08, LBI+12, LIRC12, LKH+16, LNS08, LS10, ME09, MeK09, MTW+12, PBE19, PSM07, QCW+09, RHY14, RNE+17, SM10, SMO+13, SPB08, SLQW17, TTR10, TIC09, WZ08, WII+12, XLS10, YaKS17, ZWA+13, ZCW+14, ZK08, vWN04, GLS17, HSK1H07]. Information-Aware [BDSW13]. Information-Theoretic [CGJM19, XLS10, CJ10]. Informational [BW14]. Informative [ZAM11]. Informed [DJ18, FA15]. InfoVis [Ano99e, WCHB10, Ano09d, Ano19d, Ano19f, HFM16, HAS11, KMN04, SW06, WM05, HA17].
InfoVis2009 [CWDH09].
InfoVis2009-1115 [CWDH09].

Infrastructure
[BLO+05, KZX+14, PAB+08].  INFUSE
[KPB14].  Inhomogeneous
[LSS+11, SKLU+11].  Initial  [BE18].

Initialization  [APV+15, SG09].  Initiative
[HKR+08, WDC+18].  Injection  [MGJH08].
Injector  [MGJ+10].  Ink  [WW07].

InkPlanner  [LFW+19].  Innovation
[Min13].  Inpainting
[GGZL16, PFG08, SND05, SNLD06].  Input
[KZL07, XST+18, YEHJ12, YCHZ12].  Insect
[KWGDG11].  Insensitive  [AFRS05, Wan06].

Inspection  [PTM+18].  Inspired  [FGS+17],
JCRS09, LW+18, MZH+08, NM13, RD05,
SE09, TFJ12, ZLDM16, vFWTS08].  Instabilities
[IBM+06].  Instinct
[KCK+19a].  Instances  [OKB+19].  Instant
[APV+15, HKL17, KAK+18].  Instructions
[ZWBH13].  Integer  [NW11, WJR+13].

Integral
[BRP19, CMF+18, FW08, FC95, GKT+08,
HGH+10, LS13b, LDN11, LM05, MBH+12,
PLK12, SK08, Sm03, TKNT09, WH09].  Integrality
[MCG12].  Integrals  [WPC+13].

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

Integrating  [DQ07, DCM13, OSS+17].

Integration
[CGB+11, CWT+08, CGB+13, FM04,
HSLW11, JYC+10, KPR+15,
KBG11, SCKR08, WCD+19].  Integrator
[GSS+15].  Integrators  [CAP18].  Intel
[BWW+12, Wal12].  Intellectual  [ZLC09].

Intelligence
[BCT10, YSZ+19].  Intelligent
[DZL+14, FM06, LFW+19, TLM05,
YCHZ12].  Intensity  [VJ12, SWB+00].

Intensity-Gradient  [VJ12].  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].

Interaction
[BIAI17, BBG+18, BGR06, CMHL11, DK13,
EFN12, FWSL12, FDPH17, Guo09,
GGZL16, HKR+08, HEG+17, HSTD18,
JD13, JE13, KCPE16, KPBL16, KMLM16,
Lam08, LHBF19, LKB+18, LGYJ12, LS10,
MCWS06, MCG12, MJ09, MBZJ12, MF11,
NW15, PBO+14, PKG16, PMvWC05,
PSM12, RLM10, Rot13, RBLW07, SZS+17,
SKBE17, SBV+11, Sin07, SS18, SDMT16,
TC10, TFJ12, WBJ16, WLJ+12, WB05,
YML+17, YaKSJ07, YSI+10, YEHJ16,
HWA15, JSV+08].  Interactions
[AL06, BOZ+14, CPW+15, DC17, GABJ07,
GBCG+14, HSR18, JYC+10, JW05,
LIRC12, MSW+08, PDF14, RJD+07,
SKY12, STM08, VBRK17].  Interactive
[ARB07, AAMH13, AM13, BSB+18, BSS+13,
BGT12, BCH+13, BE18, BSM+13, BHZ+18,
BBW+17, BBP08, BDSS18, BTV09,
BJN08, BWT+11, BPS+11, BGM+17,
BMW17, BFTW09, BTJ+13, CGS+11,
CTGHJ3, CZZT7a, CWT+08, CNT+08,
CAY00, CYB08, CDZ+09, CYW+16, CZZT7b,
CMK15, CK05a, CLR013, CFFH09,
CML+12, CCB+18, CMP14, DANS10,
DMQ16, DBW12, DoVH+19, DWF+19,
DB07, FYTL19, FPB17, FBTW10, FHM08,
FSEM14, FH16, FB1M16, GFG+14, GCH+13,
GW13, GSA+09, GLK+13, GHL18, GPK14,
HLRS+08, HBJP12, HKBR+14, HB10,
HE06, HSK14, HTP+08, HSSK16, HFG+12,
HQ07, HC05, HTZ+11, HTH05, IC07, IIS14,
JH13, JV09, JFS16, JWS04, JFTW07,
JHB+09, JST+10, JJ09, JCG08, JKYR12,
JY17, KSH03, KTC+19, KGJ+08, KAA12,
KERC09, KLM+08, KMD11, KL96,
KKS+19, KZD+10, KSY14, KOJL+14,
KK02, KZM+14, KMG+06, KB06,
KPB14, KGPS13. Interactive
[KBE09, KKKW05, KSW06, KSB18, KML06, KKW06b, KCK+19b, LSJ+15, LB09, LCM07, LPP+06, LS13a, LKHW04, LBK+18, LDC96, LSR+13, LWZ+18, LGG+18, LBLH19, LY12, LH14, LWD+17, LDM+18, LCI+19, LDR00, LMT+03, LMC02, LCCM12, ME19, MB18a, MV06, MKN+07, MAST16, MGP06, MGJH08, MKG09, MGJ+10, MH10, MJJ+13, MYY14, MII+13, MAKM14, MRG+15, MQF06, MWC+12, MNC14, MHDG11, MPBM+18, NKKH11, NKLH12, NHYY18, NW10, NTS11, NT99, ORRL10, OHI2, ODH+07, OA11, PZ11, PKL+18, PPL+09, PPZ+12, PHE+18, PMCS11, PTM09, PH08, QYH+18, RE01a, RGK+13, RHY14, RAL+01, RKB19, RKK16, RGFL14, RBDG15, RJG17, RDB+12, RP12, Rot13, RKG+18, RSM+16, RSR+18, SSRE18, SSC+16, SK16a, SRIH16, SMWH17, SS13a, SWC+08, SKYS14, SLB04, STY12, SDW11, SLK+17b, SH12, SLMA06, SPEB18, SDES19, SKL+14, SB17].

Interactive
[SEB19, SW17, SFC+07, SGM+11, TKTN09, TCYM09, TDN+12, TZC13, TLS17, TWBBM17, THT19, TLLH12, TKBH17, VW12, VJC09, WFKH07, WLJ+12, WZQK04, WGS07a, WJ08, WP16a, WM16, WWS+18, WV08, WEE03, WKZL04, WC+12, WAG06, WFM+06, WDSC07, WQ07, WCQ+09, WWL+10, WLS+18, WP SH06, YHW+07, YJH+17, YDC+14, YYT16, YRWG13, YS+19, ZK06, ZK07, ZHT07, ZEC11, ZCBB12, ZCBB13, ZEC08, ZG06, ZBDS12, vHvdWw02, vPBB+11, vFTS08, WOC09]. Interactively
[JHP+14]. Interactivity
[ARH+15, BVV+19, BDF16]. InterAxis
[KCP16]. Intercluster
[MQF06]. Interest
[AHSS14, HD12, JA18, MVN+19, vHP09]. Interesting
[BBH+17]. Interface
[AGDJ10, BDS+03, CDZ+09, CML+12, CLEK13, JKM01, KMDH11, KLK+09, KFL+15, LIM+12, LTP+05, MWSJ14, MKT+18, OKB+19, PFW12, PLE+18, SK16b, SYYC11, WS06a, WM16, WCC+19, Wu16, ZTA12]. Interfaced
[MBT+18]. Interfaces
[ADP02, BLO+05, CDF09, HF10, LMK07, LPG+18, OBKP18, POD+13, SKK06]. Interferometry
[BPS+11]. Interfering
[BCH+13]. Interior
[LL14]. Interlayer
[GK16]. International
[Ano212, Ano414m, Ano414t, Ano16m, Ano16w, Ano18f, Ano19e, Ano19g, GKR14, JLS15, KHSB11, LBKD09, LABS10, Ano13l, Ano13m, Ano17l, GJK15]. Internet
[CYB08, CDM+06, Hu16a, KJH+18, LMZ06, PUN11, VWS+W+07, ZGW+14]. Interoperability
[LKT13]. Interpenetration
[ELF13, PB16]. Interpersonal
[RJD+07, RKA+13]. Interperspective
[MT05]. Interpolant
[CM10, HTF97]. Interpolating
[HB03]. Interpolation
[AE13, BHB04, COJ15, CL09, Cse13, GAM10, HW195, HTZ+11, KCOY03, LWS97, LKC09a, MSA17, ME11a, ME11b, NZZ+17, Ne04, ONL+12, PLK+06, PFC18, SFA+15, SKS12, TC09a, ZC06]. Interpolation-Based
[COJ15]. Interpretable
[KCK+19]. Interpretation
[KRH18, MKN+07, SDES19, ZWM+19]. Interpreted
[BGHF14]. Interpreting
[LLL+19, PGT+08, SDMT16, ZWLC19]. Interreflections
[SVGR16, XA09]. Interrelation
[JH13]. Interrogating
[CML+12]. Interrogation
[LLL+19]. Interruptible
[RN19]. Interruptions
[GWP+18]. Intersecting
[LSG+14, PHF07]. Intersection
[AL11, GD01, HHH16, LQXL14]. Intersections
[AR17, SOL+13]. Interstitial
[GK16]. Interval
[AWC10, CMM+97, FMST96, SYK+18, WD10]. Intervals
[WCJ06]. Interventions
[BHWB07]. Interview
[HHH16, KPHH12].
Interviews [AZL+19]. Interweaving [LLMB19]. Intestinal [RGF+04].
Intracranial [JPLS16]. Intrinsinc [LBD13, MFZ+17, XYSH13, ZHL+09].
Introducing [DS17a, DS18a, WLF+19].

Introduction
[AD12, Ano12g, BvdP12, BDC17, BHTY15, BGK11, BKL18, CCH14, CLS07, CW11, De 19a, DFQ12, DW17, Ebe00, Ebe07, Ert10c, Ert11a, FHI07, GKR14, GJK15, GW13, GMM05, HK10, HVY16, HKQ13, HP04, HLM10, ILMH12, Joy02, JLS15, KMN04, KS14a, KKL11, KHSB11, KPGL12, KL14b, LS06, LSCN09, Lin15, LST+16, LBKD09, LABS10, MH10, MY14, MW13, Moo03, MYM08, Nie95, Nie96, NSvW11, O015, OA11, Ota17, PZ12, Puro9, Qn09, Rus99, RWWT05, SK16a, SK15, SSL08, SL11, SW17, TL11, Var01, VW12, WLW17, WM05, WY19b, vWMT04, vW11].

Intuitive [SW17, TL11, Var01, VW12, MCK12, MKW07, NN11a, NN11b, NK06, SSD+08, SF14, SJ06, SH00b, TIW+19, WFM+05, WFKH07, WJ08, WC09, WC10, WWW+19, WCJ06, ZK06].

Isurfacing [LB03]. Isotropic [SAS05]. Isotropically [MMCE09]. ISP [HKC+12].


JackIn [KNR17]. Jacobi [JFTW07, TC17]. Jam [WZwdW13]. James [EDK10].


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


Journal [Ano18f, De 17c, FLo18, Lin14e]. Journalists [BISM14]. Joy [Ano14g]. Judge [KNKH19].

Judgment [RKS13, YHR+19].

Judgments

Just-in-Time [LBG+16].
KAVAGait [WFM+19], KD [WF+05, HL09]. Kd-Jump [HL09].
KD-Trees [WF+05]. Keeping [QH18].
Keim [Ano11d]. KelpFusion [MRS+13].
Ken [Ano14g]. Kernelized [BPP+16].
Kernels [DBH14, HUPS14, RSR+18].
Keshif [YEB18]. Key [CTT+16].
Keyboard [LIRC12]. Keyframe [GSC15, PLW11].
Keynote [Ano13u, Bai13, Cze12, Heg10, Min13, Sat13, Seq12, Tha11].
Keyword [FFB18, RGP+12]. Keyword-in-Context [RGP+12].
Keywords [IIS+17]. Kick [PVF13]. Kick-off [PVF13]. Killing [HMTR19].
Kinects [TZL+12]. Kinematic [COMP13]. Kinetic [LSM03]. KL [Rob98].
Knitwear [CLZ+03, GRS05]. Knot [CLCQ12, HHQH17, ZWJZ12]. KnotPad [zwjz12].
Knots [GHK97]. Knowledge [AS05, CB15, KBKG07, MWN+19, SSS+14, SS06b, WSH+19, ZGI+18].
Knowledge-Assisted [WSH+19].
Knowledge-Based [KBKG07].
Knowledge-Transfer [ZGI+18].
KnowledgePears [SGP+19]. Known [RNK+15].
Kong [QCX+07]. Krueger [Han95].
Kwan [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 [YS13, KCK+19a, TLH10].
Lagrangian [BTT09, GHP+16, HOGJ13, JEH02, SP07, SWTH07, SX17, SFB+12, Wu16, YNBH11].
Lake [UDSL18].
Lambertian [MBT+18].
Lamps [RRK16].
Landmarks [Hu16a].
Landscape [IV11, OHWS13, TSD09].
Landscapes [TSW+07, WBP07].
Language [CCQ+14, DR08, HB10, KCS+16, LLL+19, NW15].
Languages [DWBR06, RBGH14].
Laplacian [ATLFO6, ZHI+11].
Large [AVK06, AHS14, AGL06, AABH+16, AAMG12, AAMH13, APS+14, APW16, BW11, BDJ14, BBD+11, BAAK+13, BDF+10, BBP08, BBDO6, BWT+11, BTC10, CBPS06, CGC+11, CMCL06, CWDH09, CGH+19, CMK15, CPK+05, CK05b, CAN14, CV+12, CLB+16, CLWW14, Dic14, DGWC10, DYW+13, DHR+19, FSHH12, FSW09, GKN05, GCL+15, GSS+15, GPL+11, GHGM06, GA+08, GCL+18, Guo09, HSS11, HAAAB+18, HWW02, HDSC19, HE99, HSSK16, HBC12, HC05, HTE11, IWR+18, IV11, IDW+13, JH13, JST+10, JS98, JHP+14, JDA+11, KSH03, KHD07, KLK+09, KKP+17, KZK+14, KJW+14, KG09, KML96, KCM18, LDK19, LBR+18, LSS+11, LFH06, LFLH07, LZH+13, LWL+17, LXR19, LBS+19, MS08, MGM14, MNS18, MGM09, MOC+14, NLS11, PF09, PFW12, PHJ+10, PY09, PGI+17, SMD14, SXM17, SF19, SHS11b, SMER06, USM97, WGS07a, Wan11, FWF+17, WWZ+19, WSL12, WDSC07, YHW+07].
Large [YXM+15, ZBG+17, ZMT+19, ZBDS12, dLVl06, vHP09, vWN04, vdZCT16].
Large- [HBC12].
Large-Magnitude-Range [ZBG+17].
Large-Range- [ZBG+17].
Large-Scale AP+14, BWT+11, Dic14.
DGWC10, FSW09, GCL+18, HAAB+18, HDSC19, JST+10, KKP+17, LFLH07, LZH+13, LXR19, LBS+19, MGM09, MOC+14, PFW12, PY09, SX17, WSLL12, YXM+15, LFH06, LWL+17, SMD14.
Large-Scene [APW16].
Largest [SWC+08].
Lark [TIC09]. Laser [GK95, KIS17, PWG17, VAB12, WG16, ZZS10].
Last [LRN96, LBS+19]. Latency [SF14, FSTG16, FKS16, LBS+16, LH14, OWS15, SQG16].
Latent [HLG+14].
Lattice [AEM09, BLW14, Cse10, Cse13, EM06].
Magnifier [ZZG+12], Magnitude [BDJ14, GUO00, KRHH11, ZBG+17].
Magnotics [BBH+17]. Maintaining [FSHH12]. Maintenance [HF11, SLMA06].
Management [BTC13, CMRS03, ET08, FWL17, GZL+14, IYS13, KWS+14, LSJ+15, MBH+12, PFK07, TLS17, WP18]. Manga [YHL+17]. Manhattan [VAB12].
Manhattan-World [VAB12]. Manifold [GLTH01, HHQH17, KW11, KBBH13, LPG12, PYW+16, SJW07, TFO09, ZCFL15, ZWM+19]. Manifolds [DMR04, ZWR14].
Manipulate [KMM+13, LLHL14, MSME14, MV06, MKH12, M KK+17, MDL+19, NEO4, NH+17, NW11, OBS+15, RCSJ18, RASS17, RM13, SKB+18, SWvW+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 [DSC+08, DSS+09, LB03, Nie03]. Marginal [XZM17]. Mark [MSM+11].
Marker [KSNY17, LZD13, LJH+18, NW11].
Marker-Based [LJH+18]. Markerless [CMPC06, LH09, MGL07, SM09, SLS+17, WLT+18b, XLC+18]. Markers [AIS18, BDJ14].
Markov [PBL10, RS12].
Martian [YQK+17]. Mashup [WDS07].
Masking [GO15, LLPF19]. Masks [KM16].
Mass [AAAFW17, CM14, DT10, EGG+12, FT09, RB18, SVAC12, ZSG+13, vLBR+16].
Massive [AK02, ADWK+17, AA11, CL18, CCL+16, KSY14, PSN10, SG05, vdEHvW14].
Massively [LLB+12]. Massless [SLNB11].
Master [TAK+05]. Master-Slave [TAK+05].
Match [LDW+15, PYHZ14].
Matches [BNTM16].
Matching [CCM+13b, FKLT10, FSHH12, HEWK03, KSBE18, LRP97, LWZQ17, LFP07, LB17, MGMP18, SIE81, TWS16, WSW16, XLD11]. Material [AGDJ10, BNS+03, HHI+18, HKG07, IZM18, LLL+10, POD+13, RYKL13].
SVAC12, SFA+15, UMW+12, WLLC15].
MaterialCloning [YL16]. Materials
[BSS+13, BHTF07, GKL+16, HWW18,
LB15, MBT+18, RBDG15, Vis15].
Mathematical
[GHK97, KLMA10, ZFSL19]. Mathematics
[HP04], Matrices
[DWvW12, LBK+18, PDF14, ZCL09].
Matrix [BH+17, CMP09, CLRP13,
EDF08, IML13, LLR18, TIW+19, VMJC10,
WLLC15, YRWG13]. Matrix/Tree
[YRWG13]. MatrixExplorer
[HF06].
Material
[Ano15b, Ano15e, EBB+15, JFTW07,
KHA12, MSE+06, SAM+05, ZCL08].
May [CG16]. Maze [LYY+16a]. Mazes
[WLWL10]. MDS [IMO09, JFSK16].
Me [CLKS19, Ger17, MHS07].
Mean [BSL+14, FYWY16]. Meeting
[BWW08, Bar05, EDK10, Han95].
MeetingVis [SBB+18]. Megalost
[PMvWC05]. Medical
[DMR04, KCK+19b, LPPY07, LRF+11,
PPM+11, Sat13, SK13, SKYS14, SHC+09,
SLK+17b, SEA09, UK12, WKB+13, YL16,
vLBB16, MTRP10]. Meeting [SBB+18].
TCL+13, TNB11, THJ99, USM97, VP04a, VP04b, VCP08, VS11, VCL+07, Wan06, XWL+15, YP13, YT02, YSS+12, eYL07, ZC06, ZCW19, Zha05, TGSP09, PR00b.

Meshing [BLW14, GCZL14, LLW15, MWk+08, PD04, YWW14]. Meshless [BNPB13a, GLB+06, PPL+10].

Meshsweeper [Gué01]. Mesostructures [MNC14]. Message [Ano13n, Ano13o, Ano14n, Ano15i, Ano15j, Ano15l, Ano15n, Ano16n, Ano16o, Ano16p, Ano16q, BS18, BR518, CGGR18, CFK12, CLS13b, CKSB14, De 15d, DS16a, DS17b, De 18a, DS18b, De 19b, DLM+12, Ert07a, Ert10d, De 16a, Flo17, IKLW14, Lin11d, Lin11c, Lin12e, Lin12a, Lin13e, Lin14d, Mue19, vHMM+11]. Messages [BTH+13]. Meta [ZGB+17].


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

MetaTracts [BWW+17]. Meteorology [BRS+18]. Method [AEM09, AWB11, BBBBB18, BGB15, BTB10, CB15, Dru08, FYZ+17, FA15, IHH05, IDA15, KOF08, LLL06, LLLF08, LSY+18, LCL+19, MWCE09, ORC07, RGK+13, Tay02, TS08, VS11, WH09, WHK15, WLMK04, WMK13, XTY+11, YSS+12, YLY+12, Zag96, ZCL08, JQD+08].

Methodological [DBD18]. Methodology [AABW12, RHR16, SND05, SMM12, VJN+15].

Methods [AL06, AJD08, AMM+08, AHH+14, BS08, BNTM16, BN12, CA00, CWQ+07, CMK15, CF10, CHM11, DLW+17, DSC+08, DLR09, EMISP+15, FCL09, GIMS18, HG01, KMLM16, LKJ+05, LH11, LXL+18, LD11b, SZB+09, SBM+06, SO17, TAE+11, TWHS05, VF13, WHZ+18, ZK12, HSKIH07].

Metric [CZN+11, GSZ+13, LJJ+10, LMZ+14, MK13b, OJ12, PZLZ17, VCP08, WGS07a, WOO17, YYSZ06, CS18].

Metric-Dependent [VCP08]. Metric-Driven [LJJ+10]. Metrics [DK10, GO15, GGZL16, JJ09, MDHB+07, NHEM17, Vas16].


Microfacets [MBT+18]. Micrographs [DBTH07]. Microscopy [BKA+11, BJA+19, HBJP12, MCS+08, dLVvL06, WOCH09].

Microseconds [LBS+16]. Microstructure [BZGV14]. Microvascular [MAK08].


Minimally [ES01]. Minimization [RB07, SSW18, WLT08]. Minimize [LT18].

Minimizing [OKSK16, YYSZ06]. Minimum [CXR19, KMH11, VC17].

Mining [BISM14, 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 [DTT+17]. Mismatches [BNTM16].

Missing [SS19]. Mitigating [DBBF19].

Mix [AW14]. Mixed [Bro07, CLB13, CGB+13, DH08, GKR14, GJK15, HKR+08, JAM+14, JLS15, KOJC12, 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, LBM+06]. Mixture
[LZLS16, WCZ+11]. MizBee [MMP09].
MLS [LGM+08]. MOBA [LXC+17].
Mobile [BBBM18, BMWW18, BLIC19,
BTJ+13, CPW+18, DH08, HBESB11,
HAGS16, KPR+15, KM16, KHSW17, LS07a,
LHD18, LODH16, LSV+18, Nj16, OKI15,
PKMR15, RBGD15, RJJ17, SOS+17,
VAR14, WRM+10, YC14]. MobileFusion
[OKI15]. Mobility [AAFW17, DSC+16,
WXZ+16, ZFA+14, vLBR+16].
MobilityGraphs [vLBR+16]. MObjects
[BGK+13]. Mobs [aGAB16]. Mock [VB18].
Mock-Ups [VB18]. Modal
[CK05b, GMD13, MDS16, SLM18].
Modality [BGOJ16, DH08].
Modality-Driven [BGOJ16]. Mode
[GPK14, PH07, vCdW14]. Model
[AB06, BM+19, BSL+12, BAF+13,
BMST97, BC12, CBL07, CK05a, DPW+15,
DK13, EASD+19, EFN12, FG99, FBLS05,
GH13, GCL+15, GP+13, Guo095,
HLC12, HLY18, IZM18, JKM07, JD13,
JA18, JVDF19, KPBG13, KSI+96, KPH+03,
KBVH17, KSDD14, LKL+15, LKH+16,
LKT13, MD12, MOF09, MOF10, MGJ+10,
MHD+18, ME09, MM11, MWC+12, MTB17,
MTB18, Mm09, MT01, NZ06, ORRL10,
PY09, RKK16, RLA+13, SSS+14, SVAC12,
SZD+10, SASS16, SJH+07, STPV12, SO17,
SSL+12, TGH12, TL07, TLC+10, THV+14,
TFH11, VSS08, WZW+05, WCZ+11,
WPS+16, WHM14, YLX+12, YML+17,
YLsl11, YS17, ZPS04, ZWV+12, ZWM+19,
ZFL19, ZTO9, vWNO4, vLBB16].
Model-Agnostic [ZWV+19].
Model-Based [BC12, CBL07, FBLS05,
RKK16, SO17, WZW+05, vLBB16].
Model-Driven [KSI+96, SSL+12].
Modelers [GDJ+13]. Modeling
[BTB+04, BGK11, CVC10, CLRP13,
CCB+18, DC17, De08, DCKY02, DQ07,
EASS+18, FWZQ13, FBGB09, FM04,
GRS95, GLX17, HWW18, HR96, HFG+12,
HQQ12, HQ04, KV03, KCA16, KPH+03,
KPB14, KPSS13, KKM+09, LA11, LPS+13,
LvL12, LPKF14, MQQ00, MAST16, MM11,
NMGK17, NDM+97, Nye98, NRS15, PK08,
PW12, PDW+14, Qin09, RNE+17, SPEB18,
SKW+11, SJM14, Sza18, TMH+10, WLL+12,
WXJ17, WFW+17, WX17, WKB+07,
WZF+04, WKKW06, XSY+16, XSS+17,
XAO9, XA10, YJL+15, ZZSS10, ZLD+14].
Models [AG16b, ATK16, ADDG12, ASE16,
BW04, BDK98, BW01, Bru17, CGD97,
CC08, DvVH+19, FBL+18, GJG+15,
GNDV+18, GMD+17, HOT98, HC05,
HKYM17, HG01, JK16, KAKC18, KTC+19,
KL14a, KMT14, KSY14, KML96, LH03,
LL05, LJW08, LR11, LS10, LZLS16,
LSC+18, LLL+19, Max95a, MKJ06,
MG14, MF11, MWN+19, MP13, NT03,
OB117, PML97, RE01b, STB18, SF19,
SPK+07, SGB+19, TLQ+08, TCY09,
TWBB17, USK12, Vas16, WKB07,
WH09, WQZ+18, WSLL12, WSW+18,
XESV97, YSGM05, ZK07, ZWM+19,
ZHC18, ZLDM16, ZJH07, ZSTR07].
Modification [LSJ+15, MDS+18].
Modified [GHA+08, WZK12]. Modifying
[AMA11, JAO+14]. Modular
[AHSS14, DIv15, OTKS15]. Modulation
[MDM10, RLL+13, TIS16]. Modulator
[IHS17]. Mohr [CRB+05]. Molecular
[BPG12, BLG+16, CG07, DHR+19,
GRVE07, GBM+12, GBCG+14, HEG+17,
KBE09, LBH11, LBH14, PB13, SVGR16,
TMC06, KSF+17]. MoleView [HTE11].
Moment [BHSH15, CRT04, SHM+07].
Monitor [TGW+95]. Monitor-Based
[TGW+95]. Monitoring
[BTH+13, CLZ+18, MKN+07]. Monocular
[HDBC15, VARS14, ZHQ+07]. Monte
[HK17, LSPW12, Sbe97]. MOOC
Morphable [CLC+15]. Morphing
[CE01, RM15, SLGM09, WLL+05]. Morse
Mosaic [HCP+16]. Mosneying [AZL+19].

Motifs [MRSS+13]. Motion
[AW03, BWK+13, BTY14, BSWL12, CK16, CML08, CLAL12, CBL07, FXG12, GXR+18a, GXR+18b, HCT98, HCMTH15, HZM13, JER16, KERC09, KCP08, LPG+18, LMD12, LHD16, LHYG12, LPT11, LCS+16, LSH03, LXYR18, LZH18, LKM+18, MCP+06, MKA13a, PLW12, RK17, SKK+14, SYK+18, SLG+17, Sz11, SBE+15, TAL+07, WHK15, WLT+18b, WSTH07, XLC+18, YNO3, YAE07, ZJH+11].

Motion-Blur [PLW12]. Motion-Sensitive [SZ11]. MotionExplorer [BWK+13].

MotionFlow [JER16]. MotionRugs [BJC+19].

Motion
[ASvdP14, BVLO6, HK09, HK16, yKL12, TH13, TMM+13, XA10].

Motivated [JKM06]. Mountains [CCB+18]. Mounted
[BSEN18, CDK+17, GIMS18, HH+18, HRS15, IK15, IDAK15, IA1K16, KBB+12, KRA16, LCR16, LHO16, LHC10, MIO+15, dJBNM17, OTKS15, PNI+15, PG+17, QNP18, SBK+11, XST+18].

Mouse
[LIRC12, RRH+09].

Movement
[ARH+15, AA11, AABW12, AAH+13, AAB+13, AAFW17, BPS13, CYW+16, DNN13, KTE15, SMP17, SJL+18b, ZMT+19].

Movements
[AdLH13, LKD19, PZ07, ySKK07].

Moves
[SSV18, ZWJZ12].

Movie
[BJLYW01, LLKN17].

Moving
[KGS+19, LG12, MGM14, MEB+14, PLK12, SP96, WBD14, ZLY18].

MPI
[CGC+11, GPC+17].

MPI-Hybrid
[CGC+11].

MPML3D [PUN11].

MR
[BSL13, MNK01, ZDL03].

MR360
[RAC17].

MRI
[AS19, BPM+13, JFT+07, KGP+13, KGG+12, MN07, STS07, TSS07, vPBB+10, vPBB+11].

MRTouch
[XST+18].

Multi
[APW16, BSM06, BJM07, BPD08, BLK17, BM13, BDW+08, CLG16, CWW+07, CCM+14, CLW18, CPG09, DVCD07, DDW14, EBB+15, FT07, GLS+17, GLG+13, HA06a, HKG07, HBC12, HZM13, IWV+18, IZ18, KKP+17, KCK+19a, KLS+18, LLR08, Lin16b, LPQF14, LD11a, LPK+16, LRF+11, MS18a, MS18b, MDS16, MIS+18, ME11b, NSW+17, PSTW+17, PLS+14, PTMB09, PLE+18, PWIG18, PHF07, PBK+12, PBC17, RLM01, SLG09, SLR18, SKMH14, SLS+17, SJH+07, SGAS16, TAK+05, TIK15, TS08, VBK17, WAT14, WSW16, WSL17, WCC+18, WAG+12, WS06b, WXC+08, WMS+18, YDS+16, YXG+10, ZFL17, ZWC+18, ZLC+19, WOCH09, WBD14].

Multi-Attribute
[GLG+13, SGAS16, WCC+18].

multi-channel
[WOCH09, WBD14].

Multi-Character
[VJK17].

Multi-Charts
[DDW14].

Multi-class
[CMM+14].

Multi-Criteria
[HZM13, PSTW+17].

Multi-D.O.F.
[TAK+05].

Multi-Depth-Map
[APW16].

Multi-Destination
[ZFL17].

Multi-Dimensional
[WXC+08, ZWC+18, ZLC+19, LLR08, LPK+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-Level
[BM13, FT07, KKP+17, ME11b, SJH+07].

Multi-Material
[HKG07, IZM18].

Multi-Modal
[MS16, SLG18].

Multi-parameter
[NSW+17].

Multi-Pipeline
[MIS+18].

Multi-Projection
[KLS+18, PWIG18, SLS+17, TIK15].

Multi-Projector
[BSL06, BJM07, DVCD07, SLG09].

Multi-Relational
[PLS+14].

Multi-Relaxation
[LPQF14].
[AS11, CYZ+09, DCKY02, TSB+05].
Muscles [WGF08]. Museum
[HSC08, MLMF12, RGFL14]. Music
[CQM10, FXG12]. Music-Driven [FXG12].
Musicians [JFS16]. Mutual
[BBB+12, TAK+05]. My
[BSB+18, SS19, SHV+18]. MyBrush
[KPV+18]. Myocardial [TBB+08].

Name [SWY+17, WBDS11].
NameClarifier [SWY+17]. Nanocubes
[LKS13]. Nanoscale
[AABS+14, MAAB+18]. Nanosphere
[GLK+16]. Nanostructures [MDS+18].
Nanotechnology [QMK+06]. Narrative
[BMW17, FYF+18, HD11, HDR+13,
RCW+18, SH10, WLB+14, WLF+19].
Narratives [KBI+18, SBB+18]. Narrow
[AS11, LKHWO4]. Narrow-Band
[LKHW04]. Narvis [WLF+19]. Nasal
[ZMH+09]. Native [FYTL19, STYC12].

Natural
[BPB14, BIPS12, FTB+13, LCC+17, LLL+19,
MF11, NW15, NSN14, RJJG17, SBK+11,
SLF+12, TFJ12, XZX+17, YN03, YON06].
Naturalness [KOF08].
Naturalness-Preserving [KOF08].
Navigable [WKW06]. Navigating
[CVC+12, CML+12, CLB+16, FWR00, JS98,
SJMS19, SPK+07, WSO6a]. Navigation
[AN13, BFPO14, BL07, BJNN08, BIPS12,
CRI06, EDOF8, GSA+09, HD12, HMM00,
HR11, IV11, KBKG07, LJS+15, LYY+16a,
LODI16, PDBC+11, PGI+17, SW12, SM06,
SAC+08, TYSN06, TMM+13, WHA07,
WP18, ZHLR14, vWN04, JSV+08]. ND
[CXM19]. Near
[ANO96b, BBS+18, DTT+17, LH16, LHH16,
LSJ06, RWBF18, RBGD15]. Near-Eye
[DTT+17, RWBF18]. Near-Field
[BBG+18, LH16, LHH16, RBDG15].
Nearest [CK10, XNLD11]. Nebulae
[MKHD05, WAG+12]. Neighbor [CK10].
Neighborhood [DSF+14]. Nematic
[JKM06, MJK06, SPCJL06]. Nested
[Mun09, WLSL17]. Nets
[CD14, ST09, vHWV09]. NETSPEAK
[RGP+12]. Network
[wAPS14, ABC+19, BRH+17, BF01, BEW95,
BBH+17, BKWO3, CDB+17, GKL+13,
HZM+16, KACK18, KDMW16, LLB+12,
MV06, MKN+07, MPMG12, MGPH06,
MJ09, NMB16, PGU+13, SNK+17, SFMB12,
SHH11, SWW+15, SSG12, SA06, SPEB18,
VMCJ10, WLS+19, WPZ+16, YSD+17,
vdeEHBW14, vdeEHW14, vdeEHBV16].
Networked [DK11b]. Networks
[AHSS14, AKH+17, BFP14, BG04, BSKR19,
BJY+18, BN11, CGH+19, CCM12, DVP+18,
DWW012, FBL+18, GSR+19, GDBG12,
GZ11, HSS11, HSCW13, HS11, HF06,
HFM07, HBF08, HKYM17, JHGH08,
KCK+19b, LPP+06, LLHML14, LSL+17,
MB19, MK09, PS06, PHV+18, RFIT17,
FLL18, SG09, SMRO06, SS18, SGPR18,
UMW+12, VRW13, WGYS19, WKKW06,
YDG+16, YDC+14, ZEC08, DMS+08].
Neutral [BF01, BJY+18, JHF+09, JDL12,
KACK18, KCK+19b, LSL+17, LB+18,
PHV+18, RFIT17, SGPR18].
Neurobiology [BSG+09, WOC09].
NeuroBlocks [AAB+16].
Neurodegenerative [OIR+17].
NeuroLines [AABS+14]. Neuron
[LHH+12, UKF+18]. Neuronal
[AABS+14, BJA+19]. Neuroscience
[BAAK+13]. Neurosurgery [KOC14].
Neurosurgical [BHFB07, JSV+08]. Never
[DBN06]. News [MBS+06]. Next
[KAS12, LSV+18]. Nielson [ANO13c].
NLIZE [LH+19]. Nmap [DSF+14]. Node
[HDFO8, JHHT14, NBW14, RP12, SSKB14].
Node-Link [JRHT14, NBW14, SSKB14].
Node-Link-Group [SSKB14]. Nodes
[WRF+11]. NodeTrix [HFM07, YSD+17].
Nodular [WBK+13]. Noise
[AGY+17, CYC+12, CCS12, FHHJ08,
JEH02, KKSS13, LKD11, LLW06, YPI13].

Note
[An05a, An05b, De 15b, De 15a, De 15c, De 16b, De 17b, De 18c, Ebe03a, Ebe03b, Ebe04a, Ebe04b, Ebe06a, Ebe06b, Ert07b, Ert07c, Ert08, Ert09a, Ert09b, Ert10a, Ert11b, Ert11b, Flo16, De 17a, Hag99, Hag00, HE02, IK15, Lin11a, Lin11b, Lin12b, Lin12c, Lin12d, Lin13a, Lin13c, Lin13d, Lin14c, Lin14a, Lin14b, Lin16a, Lin13b]. Notice [SGQ16]. Noticeable [NWHWD16]. Notifications [GWP+18]. NotifyVR [GWP+18]. Novel [ARRC11, AS98, CDZ+09, CVC+12, DSF+14, INCB18, JAAL18, JSV+08, KHA12, KK19, LHC10, NZ06, OHH06, PM08, RGK+13, TCM10, WSM+09, ZBZ+13]. Novice [LKH+16]. Novices [GTS10, GTS13, KPR+14, LBW19, YEB18]. NPR [LCC+17]. NPU [PMD+07]. NPU-Based [PMD+07]. Nuclear [DCK+12]. Number [BDJ14, KWDGI1, OISK16]. Numerical [GBP+13, SZD+10, ZMZM15]. NURBS [SF14, KKM+09, KML06, QT06, SF19]. NURBS-Based [SF14].

[RCL+15, ZOC+13, JHG08, LSC08]. Our [BSSB10, EDK10, RCL+15]. Out-of-Core [AGL06, HKC+12, LF02, LCDP13, USM97, 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]. Outcomes [WG12]. Outdoors [BBBM18]. Outflow [WG12]. Outlier [NH06]. Outlier-Preserving [NH06].


Parallax [BC18a, LXRY18, MSM+11, PKS+08]. Parallax-Free [MSM+11]. Parallax360 [LXRY18]. Parallel [AD12, BGM+07, BGM+08, BSO+12, BBP08, BBV+11, CL18, CW11, DK10, DK11a, EMP09, ED06, FPH+08, GH00, Gor02, GXY12, GPB19, HKC+12, HW09, HSH10, IB+14, JFTW07, JF16, JCWD14, KCS+16, KBB06, Lac96, LLB+12, LT11, LDC96, LTP+05, MB18, MAWM11, MGM09, MFS+09, NR18, NC07, NLS11, NH06, PZ12, REB+16, RLS+19, SN12, SKL+11, VP09, VMCJ10, VHSB16, WZC+15, WLSL17, YXSH13, YXM+15, YGX+09, ZWZ+13, ZGH+18, ZIP+15, ZGHG11, ZW18, tCMR07]. Parallel-Hardware [JFTW07].

Parallelism [CCG+11, GPC+17, HBC12, SSIF09]. Parameterized [MS08]. Parameter [AAM+12, BSM+13, BVP+HR09, BM10, MGH10, OKB+19, PBCR11, SHH+14, TWSM+11, WLSL17, NSW+17].

Parameterization [BF01, GLB+06, HAT+09, KZW12, MGL07, NSZ+17, NPPZ12, PTG06, WPZ+11, YYSZ06, YKL+08, ZGH11]. Parameterizations [HFL18, SAS05]. Parameterized [VABW09]. Parameters [BTJ+13, EASS+18, JBS+18, KBD+11, LSH07, TKTN09, YL16, nGAB16]. Parameteric
[ADDG12, CTT+16, DQ07, Elb98, FG+05, IDAK15, MWCE09, JDQ+08].

Parametrization [AG17, Parcels [VABW09]. Pareto [HHG14, MLMP18].


Partially [KLC08]. Participating [WH18, ZC03]. Participation [Ano08c, Ano12e]. Participatory [VWF09].

Particle [GB15, BC12, CO15, CMK15, EGS03, GIK+07, GKM+15, HL02, HW95, Har16, IWR+18, KKKW05, LSY+18, LLRR08, LTFK08, LSC08, MSW+08, MNK07, MWK+08, NJB07, RGC+14, SYM14, SM17, SFBP09, STM08, WSTH07, YEll+16, ZGH+18, ZD18, vPVvdW10].

Particle-Based [CO15, GIK+07, GKM+15, NJB07, LSC08, MWK+08].

Particle-Particle [LSY+18].

Particle/Flow [STM08]. Particle/Volume [SYM14, SM17]. Particles [ATT12, GT14, KSSW09, MWK07, ySKK07, YS03].


Pass [ASDW14, BTHD11, MPT03, WX13].

Passengers [Ch16]. Passive [HSR18, NMN+18, STH13, ZK17]. Past [LMW+17, NJ16]. Patch [GGZ+18, LSS+15, WWC+14, XLD11, ZWS+17].

Patch-Based [GGZ+18, LSS+15, XLD11, ZWS+17].

Paths [Gor02, HTF97]. Patent [KBGE11]. Patents [FKHM17]. Path [AMA11, BMWW18, HW95, HHCLO1, HL09, KM16, SAC+08, THWS05, WK+08, WG16, ZLB+05]. Path-Preserving [AMA11, HL09]. Pathline [CO15].

Pathlines [MWS14]. Paths [AMA11, EDK10, LLBS17, LBH11, LWD+17, WOO17, WKW06]. Pathways [JYC+10, LPK+13]. Patient [BSKR19, HHO+17, KGPS13].


Pattern-Based [VNM15]. Patterns [AAFW17, ASW12, BSH+16, BW08a, BEJK12, CYW+16, FPH19, GHA+08, GZ11, GCML06, HA06b, HHKE16, JER16, KDA+09, LWD+17, PW13, SMO+13, SCT+10, TTS10, WVVY14].

PCs [AO15], GU00, KGP+13, KGG+12].

PC-MRI [KGP+13, KGG+12]. PCs [NH07, TBR+12]. PDEs [BF01]. PDEs [DQ07, RL08]. PDF [SKM14].


PEls [XHT+07]. Pelvic [SLK+17].

PelVis [SLK+17]. Pen [WLJ+12, ZZD14]. Penalized [BSK01]. Penalized-Distance [BSK01]. Penalty [Dr08]. XZB14.

Penalty-Based [XZB14]. Pendulum [TLC+10]. Penetration [KLM04].

Penumbral [DF96]. People [HH16, LKH+16, OBKP18, RCL+15, Tal+07].

Per-Pixel [MMD10]. Perceived [BEDF16, GMS+07, JSB13, KHSS14].

Perception [BH07, BCS11, BI12, BG07, BSWL12, CWM+09a, EMdSP+15, FIB+14, GLM+17, GNC13, TGBP19, HTP19, HRR+08, HTO98, HV13, JAM+14, JME10, KSTE06, LH16, LH16, LML+18, LB1+14, MRT00, PW12, PLE+18, PBK+12, PIS15, RYKL13, ESA14, TyET14, TYL+18, VS11, WK13, WFC+18, WCG+19, ZK17, ZNZX16].

Perception-Based [CWM+09a, EMdSP+15, MRT00].

Perception-Driven [WFC+18, ZNZX16].
Perception-True [HV13]. Perceptions [RGFL14, RCL+15]. Perceptual
[AL06, ACS+18, BSG18, BAW16, DBH14, HBW06, KOC14, KHA10, LKR+18,
MPW17, PGR13, STP12, SBE+15, SBW17, WB08, YNO6, ZK10, vHR08].
Perceptual-Statistics [STP12]. Perceptually [BT14, GH00, LSS13,
NSN14, QM08, ZWM13]. Perceptually-Based [ZWM13].
Perceptually-Driven [GH00].
Performance
[ADDG12, BAP+17, BBG+18, BBB+19, BC18a, BTB10, CTGH13, DK11b, GGJ+18,
HBT14, KGAM18, KLL12, LLB+12, MZC+16, PBO+14, RAL+17, SSMG13,
TKAM06, WXY17, XMM19a, XMRC17, vdcW14, GSL14]. Performing [KKM+09].
Perfusion
[ODD+07, POM+09, TBB+08].
Peridynamics [HWW18]. Periodic
[CML+07]. Peripheral [JSB13]. Periphery
[LBH18]. Persistence
[BEK10, FFST19, RM17, RKG+11, RML12, RFLL18].
Persistence-Based [RML12]. Persistent
[CLMO17, SJ06, WC09, WC10]. Person
[TMM+13]. Personal
[FDPH17, HTA+15, JHR10, KPV+18, TBHC16, VBC+16, WBA+14, ZGW+14].
Personality
[Per95, SPW07, ZKM18, ZOC+13].
Personalization
[WGR+18]. Personalized
[CTM+13]. Personified
[TMM+13].
Perspective
[BHST17, DHM13a, HCS+07, LS10, SH00a, SBK+11, WB08, WCA+17].
Perspectively
[HN13]. Persuading
[KV08]. Persuasive
[PMN+14].
Perturbation
[CA00, LLL+19].
Perturbation-Driven
[LLL+19].
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
[GGC+17]. Phenotype
[GHC+16, GGC+17, GNDV+18]. Phone
[VARS14]. Phones
[BLIC19, OK15, PKMR15, WR10].
Photic
[XHT+07].
Photometric
[PGW17, WLDW11]. Photon
[HUP14, JKRY12, JY17, SJ09, SCL08,
ZDM13]. Photon-Mapping
[SCL08].
Photons
[LBS+16]. Photorealistic
[PY09, RBDG15, ZLG+06]. Photoreceptor
[RD05].
Photorecomposer
[LWZ+18].
Photos
[CdOKRv09, KCA16]. Phrase
[vHWV09]. Phrasing
[OPH+16]. Physical
[AN13, BGK11, DBP14, HSR18, JH16,
LB17, MLS18, Qin09, RNE+17, STS+14,
TJW+17, VBM17, YQK+17, ZPS04].
Physicalization
[LPF+19]. Physically
[BPS+11, CMN13, GKH97, IZM18, JWL15,
LXB17, Vis15, WB08]. Physically-Based
[BPS+11, CMN13, GKH97, IZM18, WB08].
Physician
[OIR+17]. Physics
[HEG+17, KJ12, LXW+18, QT96, SAM+07,
TLC+10, YGG+13]. Physics-Based
[HEG+17, KJ12, LXW+18, QT96, SAM+07,
TLC+10, YGG+13]. Physiologically
[MOF09, MOF10]. Physiologically-Based
[MOF10, MOF09]. Physiology
[RD05, XZ+17]. Pick
[WFH12].
Pictorials
[Chi16]. Picture
[PTM+18, WLL+16]. Pictures
[ZLZY18].
Pictus
[GPL+13].
PieceStack
[WWS+16]. Piecewise
Porosity [MDG00]. Porous [PC13, WAWS18, ZFS+19]. Portable [KCS+16].
Portals [Ano05d]. Portfolio [BNTM16]. Portfolios [MEV+14].
Portraiture [Bro07]. Pose [CZN+11, FCSF17, GSCO07, GCL+18, HBESB11, HV00, IFM14, LIM+12, MUS16].
Pragmatics [HSTD18]. Pre [Ano08d, GAMD10]. Pre-Integrated [GAMD10]. Pre-Pages [Ano80d].
Preattentive [KK19]. Precepts [AS05]. Precise [EPS+15]. Precision [HBKS09, HKB+19, PNML08].
Precomputed [BES12, XJF+08, ZDM13]. Predicate [zBBKN14]. Predicate-Based [zBBKN14]. Predicates [BPM+13, KGP+13, SS06a]. Predict [AERA14]. Predictability [BS02].
Predicting [KDM+16, TWBBM17]. Prediction [BSR+14, CLL08, FM12a, HKKS18, LLG17, LBR+17, MTB18, PFC18, VB13].
Prediction-Based [FM12a]. Predictive [KBL19, LPRCH19]. Predictive
[FM06, GBP+13, KBP14, MHR+11, MMT+14, VBV+18]. Predictor [BS95, SFBP09]. Predictor-Corrector [BS95, SFBP09]. Predominance [RCSJ18].
Present [NJ16]. Presentation [BGCS17, GJZ+12, KK19, MHS07, TJW+17, WBK+08, vdEvW14, vdCvW14].
Presenting [HFK16, MYI13]. Preservation [APP11, CTM05, DSF+14, ZSG+12, ZSG+13]. Preserved [Wan08].
Preserving [ATT12, AMA11, ALMF19, BDD+16, BCGK06, CWM09b, DKB11a, FYP10, GNSP+14, GLX17, HZH14, HYB+17, HYZ+12, HL09, KSW06, KOF08, KGZ+12, LLL06, LLY+13, LZZ+18, LFR03, LDC16, LWC+18, MSBH14, NGK18, NH06, RSB96, SFH06, SWS+11, SRML07, TGS11, WWLM11, WXJD17, WCB+18, WCC+19, WJE01, YNBH11, ZQS11, CLB11, LLLN+14, ML19]. Pressure [CMF12, DRW16, SB14]. Pretend [BBC15].
Printed [ZTZ17]. Printing [WQZ+18].
Prior [SHM10]. Prioritized [KS00a, KS00b, KS01].
Prioritized-Layered
Probabilistic
[AHH+14, AJ19, BMA+19, CLG16, GR04, LLPY07, PH11, SNG+17, YFR17].

Probabilities [LY12].

Probing
[DVC18, SDMT16, vPBB+11].

Problem
[Mar18, QCX+07, RM17].

Problem-Driven [Mar18].

Problems
[ZYM+14].

Procedural
[DKMI13, HQQ12, HKYM17, MM11, VT08, VBV+18, YHL+17].

Procedurally
[SGJM18].

Procedures
[TGW+95].

Process
[CLS+12, DC17, KSB16, LZZ16, MGM09, Mun09, NXW+16, SASS16, TBWBM17].

Processes
[CG16, GDG12, JBH+09, KSSD14, LSC+18, LFA+16, TKBH17, WYM12].

Processing
[ALMF19, BYA15, BGM+07, BGM+08, BVW+07, CCQ+14, HKC+12, HQ13, RGF+04, XLN+11, vLFR17].

Processors
[WJ08, ZK14a].

Produced
[AFRS05].

Product
[WPC+13, WL16, WH11].

Production
[EGH+06].

Products
[JHH+10].

Professional
[AZL+19].

Profile
[NWHW16].

Profiles
[LB19, OHWS13].

Profiling
[GMD+17, JFS16].

Program
[Ano12, Ano13f, Ano13m, Ano14m, Ano14t, Ano15m, Ano16m, Ano16w, Ano17l, Ano18f, Ano18h, Ano19e, Ano19g, BSI18, BR18, CGGR18].

Programmable
[SvLF10].

Programming
[DKM06a, GMD+17, NW11, WJR+13].

Progress
[SPG14].

Progression
[GJJ+19].

Progressive
[CBPS06, EASS+18, FSME14, FE17, HPJG08, KL03, LL05, LYY+16b, LXR19, PR00b, PR00a, PlvdM+17, PHV+18, SPG14, TKBH17, VP04b, YS03, ZGC+17, ZNX16, ZCFL15].

Project
[PMvWC05].

Projected
[IYS13, IFM14, Lin16b, SCT06, SFC+07].

Projecting
[PSN10].

Projection
[AHR+11, AIS18, BE06, CMSW04, DMC+12, EMdSP+15, FST+14, GXY12, HHH+18, HK99, IMS15, JCC+11, KSI17, KS00a, KS00b, KS01, KLS+18, MS04, NWI17, OR98, OR99, PNML08, PWG17, WIG18, RLM10, SLS+17, Sim07, TIS16, TIK15, WKME03, YYY16, YRGW13, ZXM10].

Projection-Based
[AHR+11, FST+14, HK99, MS04, Sim07, ZXM10].

Projections
[Gle13, Jen12, LT16, LT18, RKK16, SDMT16, SBK+11, XZM17, FGS19].

Projective
[DHL09, HWW18, KLC17, OBLN17, YON05].

Projector
[BSM06, BJ07, DVC07, IMS15, KSI17, LM10, RNK+15, SLGM09, W16].

Projector-Camera
[RKK+15].

Projectors
[SM09, SM11, YHL08].

Projects
[AABH+16].

Promoting
[PF08, RM15].

Prone
[NMGK17, ZMG+10].

Proofreading
[AABH+16, HKB+14].

Propagation
[AM13, CLT+08, CDM+06, IK05, MAK14, MRG+15, MY16, NZS+17, RN10, RSM+16, RSR+18, STB18, SRK+11, XNT11, XWL+15].

Propel
[PSBS12].

Properties
[BLG+16, CSM07, CSS12, HEFR18, ORC07, RYKL13, RZP12, SFA+15].

Property
[KISE14].

Proportion
[LJZ12].

Proportional
[RFSH14, W112].

Prostate
[BSKR19, HHO+17, LDM+18].

Protection
[ZTP05].

Protein
[BLG+16, YJC+10, LVRH07].

Proteome
[LLB+06].

Proteomic
[YJC+10].

Prototype
[LHC10].

Prototyping
[GKM+15, KMSB14, MGJH08, SE18, SZK15].

Protovis
[BH09].

Provenance
[BYB+13, CSG19, GSO6, NXW+16, RESC16, SKB+18, SGP+19, WSD+13, WGS+13].

Provenance-Based
[SGP+19].

Provide
[LK13].

Providing
[KLS10].

Proxemics
[JHKH13, LBHW18].
Proximal [BYA15]. Proximity [KLL+13, ZCL08]. Proximity-Based [ZCL08]. Proxy [NHEM17, TCM10, ZK17].
Pseudonormal [BA05]. Pseudophysical [CK05a]. Psychological [nGAB16].
Psychologically [MZH+08]. Psychophysical [JH16, LLPP19, SNB+17, WKSS05].
PTOT [WC10, WC09]. Public [DLA+09, LLKN17, DSC+16, TKE16, ZFA+14, ZYM+14].
Purpose [AZM12, GUO00, YNM15]. Purposes [RESC16]. Pursuit [HQC+19, LvL12].
Push [AGY+17]. Putting [ZCJH12]. Puzzle [PSM12]. PVsolve [VP09].
Q [WGSY19]. Q-Networks [WGSY19]. Quad [PPT+11, ZHLB13]. Quad-Based [PPT+11].
Quadrangulation [TDN+12]. Quadratic [DKM06a, HTF97, LXW+18, RZNS04].
Quadrilinear [HWI95]. Quadtree [CE01, GSG96]. Quadtrees [LFR03].
Qualitative [BBIF12, Bru17, DJK+06, GlvP+12]. Quality [Ano09b, ASMP17, BMR01, BHWB07, CF10, Csc13, CWRY06, DSC+08, DSS+09, EGG+12, FWL17, FAW10, GMS+07, GO15, GQMM+18, GLX+18, HWHK+16, HE06, HB14, HAM11, JJ09, LAM10, LYS+10, LKL+15, LJJL04, LLG17, LCDP13, MD12, MKW07, MSHC99, NDM+97, NHEM17, NW11, RZHBB+08, RPHI08, SSS06, SJK+12, TTR10, Vas16, WGS07a, WM08, WSS09, YDG+16, vLBB16, ZK06]. Quantification [AL06, AE13, FHG+09, HLR+08, WPB+11].
Quantified [BJB+12]. Quantifying [FPHH19, ZM17]. Quantitative [Bru17, DJK+06, JYC+10, LPS10, MMDP10, War09, ZBG+17, HSKIH07]. Quantities [JDSR+18]. Quantization [CM02, RG95]. Quantum [JV09]. Quartet [BAP+17]. Quartic [Kim13, RZHB+08]. Quasi [AMA06, Cse10, ME11a, TC09a, Wan08, ZMG+10]. Quasi-Conformal [ZMG+10]. Quasi-Developable [TC09a, Wan08]. Quasi-Interpolation [Cse10]. Quasi-Trees [AMA06].
Quaternion [HM95, Nie04]. Queries [BSG+09, CDM+04, HTC09, KLL+13, KPS16, KMHI1, LLMB19, SAM+05]. Query [BAAK+13, DR08, GABJ07, GABJ08, GGA+11, PHE+18, SW13, SCL08, STH02, SA19]. Query-Driven [GABJ07, GABJ08, GGA+11]. Query-Guided [BAAK+13]. Query2Question [NW15]. Querying [ADP02, SVK+07]. Questionnaire [YAE07]. Questions [SDW09]. Quick [YSGM05]. Quick-VDR [YSGM05]. Quilts [BW11].
R [WSC+95]. RACBVHs [KMKY10].
Radiofrequency [RKSH11]. Radiograph [SCT06]. Radiometric [GB08b, LCR16, TIK15]. Radiosity [GH00, HKL17, MPT03, SS14, Sbe97].
RadViz [RSRDS16, SGM08]. Rail [MGH08]. Random [CKLL09, KMKY10, MS18b, PBL10, Sbe97, eYL07, ZZC11, ZWLC19].
Random-Accessible [KMKY10, eYL07]. Randomized [GSCI15]. Range [GK95, LRP97, LCNG14, SS14, RN05, SLW+10, VAB12, YFM01, YNCP06, ZBG+17].
Ranges [BLIC19]. Rank [GGZ+18, LLR18, MLKS18, SS06b].
Regions [YCLJ12]. Registered [FHS+12, HS11, KRHH11].

Regions [SPK+07]. Registration [AIS18, BJM07, FYZ+17, HBKS09, HQ12, HZHI14, LG13, MDS16, RNK+15, RMW09, SM09, TCL+13, XF04, YON05, YON06, ZMG+10].

Registrations [RLNN11]. Regression [DvVH19, KLG+16, MP13].

RegressionExplorer [DvVH+19]. Regular [GCT17, HAM11, MES+11, SS05, vW14].

Regularization [GXW12, ZLB16, RNK+16, ZMG+10]. Regular [MDS16, RNK+16, ZMG+10].

Reinventing [AAMG12]. Relates [ZOC+13]. Relation [CQC+18, NN11, NN11b, YHW+07, GSL14].

Relation-Aware [CQC+18, NN11a, NN11b]. Relational [KG+05, PLS+14, STH02]. Relations [BMLC19, BN11, CXHR19, CPC09, CdoKR09, Hol06, ZCCB13].

Relationships [LDM+18]. Relationships [BCH+13, CWR+10, CC07, GW11, LS09, LPC+13, LBT+18, MAK08, NR18, SW13, TWC+18].

Relative [MDS16, ZLB+05]. Relativistic [MGW10]. Relativity [WBE+06].

Relaxation [LPQF14, YLSL11]. Relevant [AAFG18, WLL+16]. RelEx [SFMB12].

Reliable [GLM06, HHC01]. Relief [LWYM12, SRML09, SJM14, YHJ+17, ZSL+15].

Relighting [CBLD01, LDR00, WPC+13].

Relocalization [GSC11, KCH11]. Remapped [HSS17]. Remeshing [AGL06, HYB+17, LJX+10, VCP08, YBWZ14, YW16, ZHLB13, ZHu05].

Remodeling [CAH+13]. Remote [CMP14, GLB16, LS07a, OIR+17, PAB+08, SJH+07].

Removal [JWS04]. Rendered [MDG00, PFK+08, WQ07]. Renderer [FSTG16, WMS98]. Renderers [YESK95].

Rendering [ABCO+03, Ano05d, Ano09b, BES12, BSS+13, BGT12, BLM96, BMTD05, BHWB07, BTB10, BTHD11, CR08, CICS05, CBPS06, CWM+09a, CLZ+03, CCB11, CMF+18, CL06, Chr03, CH03, CMSW04, CHM11, CS08, DH02, DDKA06, EMRY02, EHS13, EMP09, EII+05, EH+14, EBR109, FM07, FM12b, FSW09, FAI10, GZ06, GMS+07, GU00, GAMD10, Guo95, GQGP17, HR07a, HAA+18, HCS+07, HHI+18, HWHK16, HPS16, HMBG01, HSR13a, HSR13b, HA04, HLY10, HHM14, HK09, HBC12, HQ07, HC05, HGG+10, IWR+18, IZM18, JY09, JVDF19, JW05, JM10, JKR12, KSH03, KV03, KKK17, KKSS13, KWP01, KWH00, KKH02, KM16, KJI+12, KKPS08, KMLM16, Lac96, LA11, LРN96, LК09a, LS13a, LСD96, LS07b, LРK11, LSR+13, LY06, LR11, LHZ+04, LСD13, LRL18, LWP+06, LМ+03, LMC02, LLY06, LLРY07, MDM10, Max95, MB+18, MAWM11, MTS07].

Rendering [MPBM+18, MRT00, NK06, Ney98, NJ16, NvdVS00, NTS11, OWS15, PCY08, PLW12, PJ03, PAB+08, PH08, PS06, QC+14, RBG07, RE01a, RZh+08, RPAC17, RE01b, RDB+12, SE17, SWB+00, SLM18, SSB+17, SF19, Se15, SD11, SKMH14, SM97, SHC+09, SE08, SLW+10, SHR+11, TK14, TLQ+08, TBWM17, VF13, VBP+11, Vis15, WQZK04, WW07, WSY07, WTB+08, WK13, WX13, WXPK14, WH18, WKB+07, WDC+07, WKZL04, WPG05, WMGE12, WII+12, WC13, WLLC15, WY19a, XESV97, XTY+11, YHL08, YLX+12, YCR108, YL95, YSGM05, ZK06, ZM13, ZMD13, Zha14, ZEC08, ZWM13, ZG06, Zhu05, ZBDS12, ZD18, dRBS+12, vRKE17, LCM07].

Renderings [LB17]. Renderings [ABO+08]. Reordering [SCL08].

Reorganization [CMB+17]. Reorientation [BL15, PFW09]. RE [RF11]. Repair [BDK98, HF11, NT03, PP+11, ZJH07].

Repaired [CC08]. Reparameterization [YLY+12]. Repeated [RSL08].

Repeated [RLNN11].
Repositories [GCL, BKM13, LTM18]. Repositioning [BL15]. Repositories [GCL+15, KLK+09].

Repository [PF08]. Reproduction [AW03, CMPS97, CLB11, DVC18, FGF+05, GIS03, HF06, Hu16b, KLCK17, KHP07, KDA+09, LF97, LHH+12, LHY12, LPLT11, LKT13, LXRY18, MZF98, MB01, Mur95, NDS10, PB13, PB10, SX17, SG05, SP96, SCYW16, TeET14, WLSW08, WD10, YSD+17, YS03, ZBZ+13, ZKG07].

Representation-Independent [PBA10]. Representations [GK07, HHH16, HJC14, JVO9, JEG12, JDL9, MCK12, WJD17].

Representative [LBR+17, LPCR+19, TLLH12]. Representativity [PBPP11].


Requirements [GNCM+16, TGW+95, vLF17].

Research [BSC+09, EGG+12, IIS+17, JF16, KLM+08, KB+18, Nie96, SDW09, TM04, WOCH09]. Reshaping [ZLD16]. Residential [RB11].

Residue [ZT09]. Resistant [LLW06, YPR17]. Resizing [DZL+14, WLM13]. Resolution [AL11, AJ19, CWK+07, CAN14, FTY19, HKB+19, IWR+18, KGS+08, KHR18, LMK07, LWW+07, PS12, PHF07, SIF09, SKM14, TLQ+08, WJO8, WLSL17, WPS+16, WWD16, YBZW14, vAPP+11, BPC+10].


Rethinking [DWS10]. Reticulum [MQF06]. Retinal [FZC+07]. Retrieval [ADP02, CLAL12, EHB11, HKE12, LLZ+16, LJJ+18, SG+19, SSW18, TL07].


Reverberation [AM13]. Reverse [SZ15]. Review [FIBK17, IIC+13, KBB+18]. Reviewer [Ano05e, De18b, Lin14c, Ano04b, Ano15a]. Reviewers [Ano00a, Ano01b, Ano03a, Ano06, Ano07, Ano08a, Ano09c, Ano10b, Ano11g, Ano11b, Ano12j, Ano12k, Ano12b, Ano13q, Ano13b, Ano15b, Ano15p, Ano16r, Ano16u, Ano17m, Ano17n, Ano17a, Ano17b, Ano18g, Ano19f, Ano19h, Ano19j, Ano19l, Ano14b, Ano14u, Ano18i]. Revisited [AS19, BLB+17, HSH04, PWIG18, SCT06, SGQ16].

Revisiting [KBB+18, PDF14, SSD+08, WWS+18].

Ricci [JKLG08]. Rich [CSL+10, GBWI17, LBD13, MGP06, SS13b, WBD14, YEB16]. Ridge [SP07]. Riemannian [GSZ+13]. Rig [HSK17]. Right [PBK+12, SHV+18]. Rigid [BHTF07, BTT09, Drut08, ELF13, GSM+14, GXW+18a, GXW+18b, KL14a, KMT14, LG15, LDW+15, NW17, ORC07, SM04, SL08, SLS+17, TCL+13, TF06].


Road-Crossing [BGC+11]. Roadmaps [GSA+09]. Roaming [CMCL06]. Robots [LPF+19]. Robust [AZM12, CRO14, CL11, FF10, GXW+18a, GXW+18b, HQ12, JCW14, KHS+18, KCH11, KOC4, LZH+07, LYY+16b, LDC16, NHY18, PBPP11, RKZZ19, SSF09, SPP+14, SH12, SZ12, WWZ+18, YT02, ZTP05]. Robustness [BEK10, LB03, SWCR15, SW+16].


RothText [FH06]. Rough [MTB+18, dRBS+12]. Round [SHV+18]. Route [KCI+10, QWC+09, SLQW17]. Route-Zooming [SLQW17]. Routes [DSSK08, TYSN06]. Routing [LMZ06].


Saliency [FKLT010, IV11, KV06, MHD+18, WSYM17]. Saliency-Assisted [IV11].

Saliency-guided [KV06]. Salient [WM18]. Sample [BK10, LFE018, PSM06, QK04]. Sample-Based [BK10, PSM06, QK04]. Sampled [ATT12, CDK04, CYW+16, CL11, Wan06].

Sampler [VML97]. Samples [BT13, FHH08, LPCRH19, YCLL08].

Sampling [AT05, AY+17, AEM09, AFRS05, BMWM06, CDBR14, CYC+12, CCS12, DWB+06, FYWY16, KSSW09, KHW+09, KBH13, LL04, LBR+17, LPG15, MY96, Max95b, MES+11, MWK+08, NH17, PPB01, PRA+10, QLL013, WSMW11, WSW16, WLLC15, WCA+17, WM19, YWW14, YXH13].


SCAAT [HR11]. Scaffolds [CGL08]. Scagnostics [DAW13, DW14, MTL18].

Scalability [GBP08, YN06]. Scalable [ADG11, AAMG12, AAH+13, BSM06, BVB+11, DVEC07, DK11b, EMP09, FSW09, FH07, GW06, GHGM06, GXY12, HSZ+11, JHB+09, HPS07, KBB11, LFR06, LMC02, MHD07, MCA+10, NSW+17, NR18, NH07, PAB+08, RLM10, SCM+06, WLLC15, YEB16, YC14, YXM+15, YXG+10, ZK14a].

Scalar [ACL11, GBPW10, GJR+14, GNP+06, GNP07, HM10, JHY14, PQMC17, PMW13, RE01a, RKG+11, STS06, SW+08].
DFQ12, DW17, Ert10c, FB107, GKR14, GJK15, GW13, GMM05, HK10, HVY16, HKQ13, HP04, HLM10, ILMH12, JLS15, KMN04, KRTvW06, KS14a, KKL11, KHSB11, KPGL12, KLI4b, LS06, LSCN09, LST+16, LBKD09, LABS10, MH10, MW13, Moo03, MYM08, NsvW11, OA11, Ota17, PZ12, Pur09, Qin09, RwVT05, SK15, SGR06, SSL08, SL11, SW17, TL11, VW12, WL17, WM05, WY19b, vWMT04, vW11.

Sectional [GGC+17, SKYS14]. sectioned [DBTH07]. Sections [LB17, SFH06].

Security [ABC+19, MKN+07, SSG12].

Sediment [UDSL18]. Sedimentation [HVF13]. See [BC18a, DFG+14, DTT+17, GMD+17, GIMS18, GMY11, GLB16, HHH+18, HRISI15, IK15, IDAK15, IAIK16, IHS17, LCR16, LH16, LHH16, LHC10, MIO+15, PIN+15, QPNK18, RJH+16, SJK+07, WVFH12].

See-Through [BC18a, DFG+14, DTT+17, GIMS18, HHI+18, HRISI15, IK15, IDAK15, IAIK16, IHS17, LCR16, LH16, LHH16, LHC10, MIO+15, PIN+15, QPNK18, RJH+16, SJK+07, Seed [HA04]. Seeding [FA15, MJL+13]. Seeing [TAL+07].

Seeking [BEDF16]. Seen [DBN06, IIS+17, HMTR19]. Segmentation [AAZH+16, AZC+12, BMA+19, BWT+11, DMNR04, FZC+07, HRN+03, HNR+06, IVJ12, JBB+09, KSI+96, KW11, LCS06, LY12, MBS+04, MW99, MK09, NHYY18, PRH10, PPP+11, SHM10, SF04, TWSM+11, Wan08, XTY+11, ZTA12]. Segments [GJG+15, vLB16].

Segmented [CL06, RSOW18]. Seifert [vWC06].

Seismic [PCT+08, YXG+10, PGT+08].

SeiVis [HFG+12]. Selecting [FHSW13, JLW+17, MJ09, WWZ+18].

Selection [AT16, BAF+13, BTJ+13, CWL12, DMC15, EWWL98, JS06, KPB14, LFA+16, MLMP18, PLC+11b, PBC17, SHVV16, TMWS13, THV+14, WGS07a, WSS09, WHZ+18, WWF+19, YEU12, YEU16].

Selections [CvW18, vDvW14]. Selective [CDM+04].

Self [AL11, BPS13, BDH+18, BSWL12, GD01, HDDBC15, JNC+15, JAO+14, SKB+18, SLO+12]. Self-Avatar [BPS13, JAO+14]. Self-Contact [BDH+18].

Self-Generating [SG09]. Self-Intersection [AL11, GD01]. Self-Motion [BSWL12].

Self-Occlusion [HDDBC15].

Self-Occlusions [JNC+15].

Self-Organizing [SKB+18].

Self-Overlapping [SLF+12]. SelfTrend [LSS09]. Semantic [AW03, BGR06, CQM10, EFN12, FLLW17, HTE11, KTE15, LHJ+18, LBT+18, RBG07, SMER06, SA06, SMNR16, TWC+18, WOO17]. Semantic-Driven [LHJ+18]. Semantic-Level [WOO17].


Semi-Automatic [KGB+13, MIO+15, RKN+15, TW18].

Semi-Dense [BHST17]. Semi-Lagrangian [Wu16]. Semi-Parametric [IDAK15].

Semi-Spatial [KBVH17]. Semiautomatic [SG09].

Semiautomatic [KGP+13, KIL07, SKK06].

Semiautomatic [WU16].

Semi-Dense [BHST17]. Semi-Lagrangian [Wu16].

Semi-Parametric [IDAK15].

Semi-Spatial [KBVH17]. Semiautomatic [SG09].

Semiautomatic [KGP+13, KIL07, SKK06].

Semiautomatic [WU16].
[CMF12, FBTW10]. **Separation**
[DKM06b, KHL99, RS12]. **September**
[RPHI08]. **Seq2seq** [SGB+19]. **Seq2seq-Vis** [SGB+19]. **Sequence** [ADG11, CXR18, FNM13, GS14, GXZ+18, GJG+19, HDR+13, LLMB19, MLL+13, NJBJ09, SGB+19, UDSL18, YYFX18, ZCD19, vdEHbW14]. **Sequence-to-Sequence** [SGB+19]. **Sequences** [CMF12, FBTW10]. **Separation** [LLMB19, MLL+13, NJBJ09, SGB+19, UDSL18, YYFX18, ZCD19, vdEHbW14]. **Serial-sectioned** [DBTH07]. **Server** [SBSG06, WKZL04, WMK13, YHW+11, 12]. **Seven** [LBI+12, LBS+12, LJC15, Sibson]. **Serious** [CB15, Chi16]. **Service** [ZYM+14]. **Servoing** [CMPC06]. **Set** [ABCO+03, ARRC11, AR17, AJ19, BGB15, BW01, CDS+12, CPC09, FMH08, HKC+12, KS00a, KS00b, LTKF08, LWC+18, MRS+13, SMDS14, TSB+05, WT10b, YEB16]. **Set-Typed** [FMH08]. **Sets** [AAMH13, BDSW13, BPP08, BMPB08, CML+12, CPGC09, CJWT05, CMP14, GWBO12, GTLH01, HHG14, HPNT18, JvdLR13, KSH03, KHDL07, KWPO1, KBH06, KGJ09, LKHW04, LT16, LGS+14, LY12, LS16, LKT13, MS08, Mal05, MVN10, PSN10, PHJ+10, PFK+08, RSPH14, RP12, SBSG06, WKZL04, WMK13, YHW+07]. **Seven** [LBI+12]. **Severe** [PMvWC05]. **Shaded** [Gor02, NWHW16]. **Shaders** [PH07, RKK16]. **Shaders** [VT08]. **Shading** [AD16, BHB04, BN12, FJF+18, LDSM17, SMP11, STPV12, Ste98, WEE03]. **Shadow** [MDL+19, OBS+15, SFC+07, ZH07]. **Shadow-Driven** [ZH07]. **Shadows** [ASDW14, BBBM18, IHHK05, IIS14, JWS04, KSDA16, MDF+19, WHL16, ZC03]. **Shaft** [KKSE17]. **Shape** [BH07, BBA09, CVC10, CZZ17b, CL09, DVC18, Far12, FSHH12, FCSF17, FDC+18, GSCO07, GISO3, GKH95, HBESB11, HHERH17, HLD+08, HNR+06, HTZ+11, HKYM17, IFFP07, JZLG09, KHSI04, LL14, LFP07, LBZ+11, LQW+16, LSWS17, LSM03, MGMP18, ML19, NGK18, PSDK11, PPM+11, Qin09, SMM10, SAR06, SPK+07, SPL+13, SSO05, SO17, TH13, TAL+07, VPB+11, WX17, WKB+13, YSZ04, YHMM08, ZHH+11, ZZL+15, ZZG+12, ZDZ18, ZTVX12, ZHL+09, vLB16, SKW+11]. **Shape-Based** [HNR+06]. **Shape-Encoding** [WKB+13]. **Shape-Preserving** [NGK18, ML19]. **Shapes** [ASvdP14, BES12, BSG18, CSPN11, CMPC06]. **Shape-Dependent** [ZHF+17]. **Shape-Side** [ZK17]. **Shape-Warp** [ZROM09, ZHC06]. **Shape-Warping** [ZHM09, ZHC06]. **Shape-Based** [ZH07]. **Shearing** [AFRS05]. **Shear** [GLH+14, Lac96, SBB+11]. **Shear-Warp** [Lac96]. **Sheer** [RHR16]. **Sheets** [ATT12]. **Shell** [ELF13, GLB+06, QZS11]. **Shelves** [MSSH14]. **Shift** [BSL+14, CL09, FHYW16]. **Shifting** [ZK17]. **Shifty** [ZK17]. **Shimmer** [ZHFP+07]. **Shneiderman** [Ano13c]. **Short** [DSSK08]. **Shorthand** [vGRSW14]. **Shot** [Mi13]. **Should** [RZP12]. **Show** [GR04, LBS+19, MHS07, vHP09]. **Shutter** [BDF16]. **SI** [LLC15]. **SI-Cut** [LLC15]. **Sibson** [PLK+06]. **Sick** [YAE07]. **Sickness** [YAE07]. **Side** [AH11]. **Side-by-Side** [AH11]. **Sided** [YSL+13, YHZ+17]. **SIGGRAPH** [BvdP12, BDC17, GW13, KS14a, KL14b, MY14, SK15].
SIGGRAPH/Eurographics
[BvdP12, BDC17, KS14a, KL14b, SK15].
Sigma [PBA10]. Signal [GS16].
SignalLens [Kin10]. Signature [GSCO07].
Signatures [CBH+06, RML12, TL07, TSH+14, Vis15, WFC+06]. Signed
[BA05, KL14a, KDBB17]. Significant
[AAH+13, MZF98]. Significantly
[KLLR07]. Silhouette [WTW+08]. Silva
[Ano14f]. Silvered [MSM+11]. SIMD
[SvW98]. Similar
[KDM+16, LWS+17, LG13]. Similarity
[CMRS03, ESV98, GHK97, CM08]. Simplified
[JH13, JH16, GSL14]. Simplification
[JWC05, ORC07]. Situated
[BKL+11, BTTB+04, BM10, CZZ17a, CAP18, CM14, CMK15, CDL+16, CK05b, CLMO17, CLEK13, CDA99, Dic14, Dr08, DBP14, ELF13, GLRH13, GH00, GMD13, GIK+07, GLB+06, GPP+16, GLX17, HBI3, KSS09, KXZ+14, KNO15, KWS+14, KWC+10, LBS13, LRM+13, LXB17, LCGN14, LLCN11, LPQF14, LSH07, LTKF08, MOF09, MOF10, MGJ+10, MGS+14, MT01, OMD+12, OBLN17, PQF+09, QMK+06, RYL+18, RE14, RBLW07, Sat13, SM04, SSH14, SOL+16, SSF13, TF06, UK12, USKD12, WZW+05, WBK+07, WMK13, WSLL12, YYY16, ZZSS10, ZQS11, ZLZY18, ZHF+07, nGAB16]. Simulation-Based
[KWS+14, SOL+16]. Simulations
[BSM+13, BBG+18, BWT+11, BvL06, CL18, DCH+17, FSZH12, KHA12, LLB+12, LHH+12, Lin16b, LBS+19, OJCI16, PvdBC+11, RWG+12, RF+13, SLMA06, VBC+16, WRF+11, XSZ+17]. Simulator
[NDM+97, RGF+04, STH13]. Simulators
[SSH14]. Simultaneous [KIS17, Zho16]. Single
[BWW+12, BTHD11, Dan16, HPvU+18, IHS17, KKSE17, LWYM12, LPS+13, LSWZ17, OAH14, WX13, WJR+13, ZHC18, ZTA12]. Single-Cell [HPvU+18].
Single-Click [ZTA12]. Single-Image
[BTHD11, WX13]. Singular
[BHS12, SSC+16]. Singularities [LVRL06]. Singularity [JHW+14]. Sinogram
[YOS13]. Sinus [KKPS08]. SIRIUS
[DWF+19]. Site [RNK+15, VWvH+07].
Sitting [LIM+12]. Situ [DCH+17, HSS11, WPS+16, WKSS05, GrS+19]. Situational
[WKCB07]. Situations [SB14]. Six
[CMHL11, JWC05, ORC07]. Size [ACS+18, CK16, CCAL12, CM08, JH13, JH16, GSL14]. Size-based [CM08]. Sized
[BW17, BI12, GT19]. Skeletal
[SRCP02, SRCP03, TSB+05, WQZ+18]. Skeleton
[BKS01, CSM07, EHP+11, MTL18, SLG+17, WL08, XTY+11, YHM108]. Skeleton-Based [EHP+11, MTL18]. Skeletonization [SJL+18a, ZT99]. Skeletons
[LGS12, RVWT08, SWTH07, ZJH07]. Sketch [CLAL12, EHA11, GKH+13, LCP+13, MSA17]. Sketch-Based
[EHA11, GKH+13, LCP+13]. Sketches
[KHY17, OK11]. Sketchiness [BBIF12]. Sketching [CSPN11, JK16, KAM+08, LKS13a, LIM+12, RWG+12, RHR16, SK16b, SYYC11, TW18, WFM+06]. SketchPadN
[WM13a]. SketchStory [LKS13a]. Sketchy [WII+12].
Skills [ASvdP14, CLB13]. Skinned [LHBF19, ZBO13].
Skinning [BGB15, CZZ17a, KJ12]. Skipping [HAAB+18].
Sky [Bru17, SJS19].
SkyLens [ZWC+18]. Skyline [ZWC+18].
SLAM [APV+15, VARS14, YYR17]. Slave [TAK+05].
Sleep [DBB+16]. Slice [CML+12]. Slices [SBW17]. Slicing [OJ15].
Slider [YNYH06]. Slideshows [WLF+19].
Sliding [CLMO17, MBT07]. Slope [TGH12].
Smale [GNPH07, GBH08, GBP12, GKK+12, GGL+14b, GBP19, SMN12].
Small [AT16, APP11, BBD06, BGR06, JH13, KO12, KPBG13, KBH+10, LBK+18, MSD+17, NOB16, RKS13, STM08, WWC+14, WFM+12]. Small-Multiple [KPBG13]. Small-Scale [RKS13].
Small-World [NOR16, WFM+12]. Smart [CFM+13, RLS+19, XMRC17]. SmartAdP [LWL+17].
SmartColor [HRISI15]. SmartCues [SA19].
Smartwatches [BBB+19]. Smashing [AMA06]. SMCC [LO03]. Smelling [MYI13]. Smoke [LSY+18, YYY16, vFWTS08]. Smooth [AGDJ10, BBG+09, LG15, LBH18, Nie04, RN19, RO8, SM11, SEH08, vWN04].
Smoothed [SFBP09]. Smoothing [GZ14, SDHH12, SB04, TWT+08, WJE01, ZHZ15].
Smoothly [IFP97]. Smoothness [SCKR08].
Smoothness-Increasing [SCKR08]. Snake [LG13]. SnapShot [PSBS12]. Snapshots [SKJ+12, vdEBHV16]. Snippet [GNSP+14].
Snippet-Based [GNSP+14]. Snoooker [PLC+11b]. Snowballing [LXC+17].
Soccer [PVF13, WXW+19]. Soccer Stories [PVF13].
Social [BGC+11, BN11, CYW+16, CCM12, CdOKRV09, GKL+13, HF06, HFM07, HBF08, HWS17, JHIGH08, PS06, PGU+13, SMERO6, SGJM18, SWL+14b, TKE16, WK06, WLY+14, WCS+18, XWW+13, YLL+12, ZCW+14].
Social-Event-Driven [YLL+12]. Societal [KZX+14]. Soft [CDA99, HCP+15, IHK05, TMDO15, ZC03].
SoftAR [PIS15]. Softer [GLM+17].
Softness [PIS15]. Software [CZ11, CAN14, FWL17, GU00, HK10, HA06b, OM09, RLA+13, TC09b, TL11, WLW17]. Solid [BDK98, BW01, BGK11, CZZ17a, CMF12, DHM13b, Fun99, HR07a, HR96, HQ04, OHH06, PKS+08, Qin09, SP06, VHL14, YL18, ZH07]. Solid-Fluid [VHL14].
Solid-State [PKS+08]. Solids [LIGF06, PC13, RSB96, SPB96, Wan11, WM13b]. Solution [BTC13, EG09, KFS+19, LS07a, LM02].
Solutions [ALBR16, JDSR+18, LSV+18, MS04, NLKH12, PLK12, XYL13]. Solver [CMF12, JFTW07].
Solving [DRW16, LM96]. some [AL06]. SOMFlow [SKB+18].
Sorting [CICS05]. Sound [AM13, CLT+08, DRHK07, MAKM14, MRG+15, MYM16, NTS11, OMD+12, RNL09, RNE+17, RSM+16, RSR+18, YL18, LCM07].
Sounding [YL18]. Sounds [NTS11]. Soups [PLK12]. Source [MYI13, MAKM14].
Sources [MBL+06, MAF11, MTB18, SNM16]. Space [AJ17, AAB+13, AMA08, BB12, BSM+13, BT14, BS02, BEJK12, BLB+17, BJC+19, CMSW04, DK10, DSF+14, ERHFR10, FF18, FSM14, FWT+04, GCMLO6, GKY+16, GLB16, HAAB+18, HQ13, HPC+13, IWR+18, JH13, JA18, JZLG09, KBD+11, KL03, KL04, KLCK17, KSS09, KDA+09, KW13, LwJH04, LMZ+14, LSJ96, MWC09, MJW+13, ME09, MM08, NM13, OKB+19, PSG04, PSTW+17, PZ07, PBC11, RBX+19, RKG+11, SFA+15, SHS11a, SNHS13, SHB+14, SKP07, STYC12,
Straight [IHR01]. Straightening [AH11].
Strain [SWTH07]. Strategies
[BVV+19, DSP+17, GR15, KWH00, MTM+16, MPG+14]. Strategy
[MS08, PM08, PPM+11, SKK+14].
Stratified [QLLM13]. Streak
[BFTW09, FBTW10, KGJ09, USE13, WT10a, WTS+07]. Stream [BWF+10, KHS+18, KM96, TW18, THWS05].
Streamable [LGLR14]. StreamExplorer
[WCS+18]. Streamgraph [CSWP18].
Streaming [CLZ+18, HKC+12, LS07a, LWG05, LKHW04, LBH18, LSV+18, SRHH16, TM15, VCL+07, ZK07].
Streaming-Based [LS07a]. Streamline
[CGC+11, CCK07, FBW16, HM95, LS07b, LMG06, MNL+13, NLS11, RS12, RT12, SS06a, SCKR08, Sun03, TMWS13, TWSS16, TEC+16, USM96, USM07, WLZM10, YWSC+12, ZWS+13]. Streamlines
[MWSJ+14, MCHM10, PW13, Wen14, WS01].
Streamlining [SLA+09]. StreamMap
[LBH18]. Streamribbon [USM96].
Streams
[BSSB10, HBJP12, LYW+16, WCS+18].
Streamsurfaces [AS19, ZDL03].
Streamtube [CCAL12, USM96].
Streamtubes [WB08, ZDL03]. Street
[NZS+17, SYZ+18]. Streets [VABW09].
StreetVizor [SZY+18]. Strengths
[DBB10]. Stress
[CZZI+17b, CRB+05, DGBW09, GHN13, GLH+14, MNS18, WWS+18]. Stressful
[RKA+13]. Stretch [vKLL12, SM06]. String
[BAP+17]. Stripes [KHH+16]. Strips
[MSE+06]. Stroke
[CRH05, LHP+16, MSA17, OK11]. Strokes
[GJZ+12]. Strolling [DDR12]. Strong
[XA09]. Structural
[GQM+18, H16b, HRD+19, LLC15, NRS15, SME+06, TKW08, WFS+16]. Structure
[BW14, BRT12, BL07, CQM10, CGH+19, CLB11, DNP07, EBB+15, FWR00, Guo95, HNR+06, HTE11, KPBG13, LBG+16, LBM+06, LMZ+14, LGLR14, MZFM98, SR17, STM08, SSW18, TLD+12, Tay02, WWZ+19, WKB+13, XNT11, XCH19, YLZ+13, YEII12, ZHZ15, ZCL09, BD+17].
Structure-Aware
[BL07, TLD+12, YEII12, WWZ+19].
Structure-Based [CGH+19, FWR00, Guo95, HTE11, KPBG13, LMZ+14].
Structure-preserving [CLB11].
Structure-Significant [MZFM98].
Structured [BKM13, BS16, CYB08, DF96, FPB17, GMD+16, MZFM08, MHDH07, SSS+17, TdJ14, TdJ15, TNS10, WHFL14, WZC+15, XA10]. Structures
[BJA+19, BFL06, BW+10, GGTH07, GZ11, GSG96, GHP+16, HVSW11, LWS+17, LBLH19, MK16, MQF06, MWC+12, MCS+08, RHD+06, RC06, SP07, SWB+00, SFB+12, TNS11, TGS11, WKZL04, WKB+13, WJR+13, WAWS18, XYC+18, ZWC+16, JQD+08]. Structuring
[MWCE09, VB18]. Student [TRd12].
Studies
[AABW12, BBB+19, FWD+17, FIBK17, GS08, aKS12, LBI+12, MHI10, PBO+14, SS06b]. Study
[ARRC11, BDJ14, BHZ+18, BSKR19, BARM+12, BOP15, BvL06, BKH+11, DPW+15, DLW+17, DJ18, FPV+13, FCL09, GKI+13, GBW11, GBFM16, GGGZ16, HBA14, HKB+19, IH+18, JCRS09, KPHH12, KGAM18, KOLJ+14, KLG+16, KML16, LKJ+05, LTM18, LCS+12, LD11b, MRO+12, MRSS+12, MGM18, NBW14, OM09, PLC+11b, PLE+18, PKF+08, SZB+09, SNLD06, SMM12, TKE16, WB16, XRP+12, YHR+19, dLV+06, RSRDS16].
Studying
[BGC+11, HZM+16, RHKS13].
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
[KZMW+16, WBB+07]. Stylistic [vPBB+10]. Stylization
[HLYL18, KISE14, KKSE17,
Subdivision [WHL16]. Subdivision-Based [BDHJ04]. Subdivison [CWH13, LXT18]. Stylized [CL06, YCL08]. Sub [WHL16]. Sub-Pixel [WHL16]. Subdivision [BDHJ04, CMS06, CM10, CWQ+07, KMDZ10, LRMZ11, LHYF12, MS08, MQV00, NO97, PPT+11, PP09, QMV98, WQS07, ZC06].

Subdivision-Based [LHYF12]. Subdivision-Surface [BDHJ04].

Subgraphs [MJ09]. Subgroup [DVH+19].

Subjective [AL06, MIO]. Subjective-Based [HLM18].

Sub [WHL16]. Subjective [AL06, MIO+15]. Subliminal [BL15].

Subgraphs [MJ09]. Subjective [AL06, MIO+15]. Subliminal [BL15]. Subjective-Based [HLM18].

Subgraphs [MJ09]. Subjective [AL06, MIO+15]. Subliminal [BL15]. Subjective-Based [HLM18].

Subspaces [WM18]. Substitoipe [BSL04].

Substrates [SA06]. Substructures [Hu16b].

Subsurface [AWB11, CCB+18, HFG+12, NSL14, SAM+07]. Subtle [BDF14].

Subtyping [GZD+18].

Subway [AABS+14]. Success [KHE09].

Suggested [BEDF16]. Suggested [ZAM11]. Suggested [DC17, Koo08].

Suggestive [CGH+19]. Sugiyama [Bac07].

Suit [SM04]. Summaries [FFB18, TSH+14, WPS+09].

Summary [DZL+14]. Summary [CWW17, CXX18].

Support [CMF+18, RZNS04].

Super [CMF+18].

Super-Multiview [CMF+18].

Supercluster [MQ06]. Supercomputing [EGH+06]. Superconductor [GPP+16].

Supercube [WO09]. Superellipsoid [JKM06]. Superellipsoid-based [JKM06].

Superfluid [GLX+18]. Superimpose [SS09].

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, Hu16b, HTC09, KWS+14, MTRP10, NHB+17, PMCS11, PTMB09, STM17, SRCP02, SRCP03, SOL+16, TAE+11, TFJ12, WKC07, WLW+18, WQZ+18, YDC+14, ZCD19].

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

Support-Induced [Hu16b]. Supporters [Ano12m].

Supporting [Ano11g, HSCW13, HTL13, HSS08, KSL+17, KPS16, LFW+19, LBS+19, MT14, MGPH06, PSLM15, RAL+17, SVGR16, WPS+09, ZGZ+18, vHP09].

Supports [BMST97, IDA+14]. Summarization [DZL+18].

Surface [AG16a, AG17, APS+14, AMB+13, BH07, BRT12, BMR+99, BDHJ04, BK12, BAB+18, Bon98, BS08, BN12, BFTW09, BKW10, CGL+16, CWQ+07, CG07, CG08, CPG09, DSKA19, EdvW19, GWBO14, GR04, GSG96, GCZL14, GH95, Gu09, GXW+18a, GXW+18b, HBG11, HAT+00, HKG07, HCP+16, HYB+17, HPC+13, IZM18, JR07, JKLG08, KBE09, KFS+17, KY06, LLN+14, LBG+08, LGQ09, LLWQ13, LPS+13, LQLX14, LB17, LBH14, LLRR08, MS08, MW99, MDHB+07, MDB18, NW17, NKH11, OJ12, OMD+12, OKI15, ORC07, PB13, PBL10, QLLM13, RY+18, RvWT08, Re14, RL08, SFH08, SSH14, SAR96, SB04, SO17, SF04, SSQG16, TC09a, TWSM+11, VP04a, WWC+14, WPG05, YKL+08, YYFX18, YSS+12, ZG12, ZWW+12, ZGHH11, ZKK02].

Surface-Based [BRT12].

Surfaces [AT05, ABCO+03, BHW06, BHS12, BWF+10, BEHP04, BK07, BS16, CGD97, CLCQ12, CFC+13, CRT04, CRH05, DRR00, DBTH07, FT13, FBTW10, GKT+08, Gor02, GR04, GTLH01, HB03, HDBC15, HSH+19, IFP97, IYS13, JSG03, KCOY03, KLMA10, KSL+19, KPS16, LFW+18, LQL14, LB17, LBH14, LLLF08, SFH06, SSH14, SAR96, SB04, SO17, SF04, SSQG16, TC09a, TWSM+11, VP04a, WWC+14, WPG05, YKL+08, YYFX18, YSS+12, ZG12, ZWW+12, ZGHH11, ZKK02].
NWHWD16, NPPZ12, NHPN14, PZ11, PYV+16, PLC+11a, PPT+11, PMCS11, QMV98, RBN+19, RZHB+08, RASS17, SM09, SM11, STS10, SN10, Stü98, Tac10, TW18, TP12, TC17, USE13, VAW+17, WWB+08, WSS09, WRT19, WB05, WDC08, WT10b, WKL+17, YXSH13, YT02, ZHT07, ZTZ17, ZDW+05, ZK14b, ZHGHI11, vWC06, vFWTS08, Surfel [YYR17]. Surgery [BTB04, CDA99, HCP+15, KOJC12, LRF+11, NWF+05, RGF+04, SSH14, SLK+17a, WZW+05, TGSP09]. Surgical [KSS09, KSI+96, MTF+11, TN11, TN13, TN14]. 

Surpris[e [CH17]. Surveillance [MI13]. Survey [BNPB13b, BN12, CZ11, CAN14, COCS03, DLR09, FHKM17, GIMS18, Han16, HMM00, HQC+19, JB06, KHL13, MUS14, POM+09, RBS+18, SHS11a, SSS06b, SSG12, TCL+13, WZW+05, DIC03]. Surve[yor [ADG11]. Sur[Vis [BK16]. Suspicious [GRS+19]. Suturing [BTB04]. Swap [PDBG18]. Sweep [CL18, IMS15, KGPS13, SM97, SYR11]. Sweeping [GMD+16, SP96]. Sweeps [vRKEE17]. Swirling [WSTH07]. 

Symmetric [CSPN11, DWF+19, HLL97, HYSW11, JKM06, PYW+16, RKZ19, SK10]. Symmetry [LJZ12, PZ11, TN11, TN13, TN14]. 

Symposium [AD12, BvdP12, BDC17, BHTY15, CW11, Ert10c, GKR14, GJK15, GW13, HK10, HVY16, HKQ13, JLS15, KHSB11, KL14b, LST+16, LBDK09, LABS10, MH10, MY14, MFS+09, OA11, Ota17, PZ12, SK16a, SK15, SW17, TL11, VW12, WLW17, vW11, CCH14, DFQ12, NStW11]. Synchronization [HBKS09, LLL06]. Synchronized [KP05]. Synchronous [BE09]. SynCoPation [RSM+16]. 

Synopsis [CXR18, NXSL13]. Synteny [MMP09, BGM+17]. Synthesis [AS98, BJEYLW01, CDR+18, CTM+13, DNL+06, DWK+16, FvdPT07, FXG12, FR13, FCSF17, GIS03, HCP+16, HXYM17, KCP08, LPPK12, LHC16, LFP17, LBZ+11, LHZ+04, LCS+12, LJW12, LSS+15, MDP+06, MK13a, MM11, NTS11, RB07, RNE+17, RSM+16, WWYS04, WYY14, XZB+17, YL18, ZLG+06, ZHQQ+07, ZSTR07, ZKG07]. Synthesis-Coupled [RSM+16]. 

Synthesized [YYSZ06]. Synthesizing [MSSH14, VML97]. Synthetic [ALM11, ZLD+14]. System [AK02, AvHK06, BDF+10, CRO+16, DRHK07, DH02, EGS03, FCZ15, GCML06, HF06, INCB18, aKIS12, KRRN17, KKKW05, Lac96, LBS14, LDC96, LRF+11, MGJH08, MY113, MFS+09, NMN+18, NS95, NLKH12, NXY+05, NT99, PKS+08, PWG17, PMD+07, RPH+16, RBGH14, RPK+15, SST+17, SW13, SWY+17, SwL10, SYS+06, STH02, TKT09, TMH+10, TK15, TGG+95, TLM05, WK13, WTL+09, WDW16, WSC+18, ZFA+14, vLFR17]. 

Systematic [AAGS19, FIBK17, IIC+13, PS06, WCR+18]. Systems [ATK16, BKDE00, BS02, CSL+16, CCQ+14, CLB+16, DRHK07, DNN13, EG09, FWL17, GPK14, GS06, GBCG+14, HFC+12, HBC12, MGS+14, MNKW07, NHCO8, NSTM03, OWS15, PH03, PSM12, PFK+08, RKT+17, SSMG13, SSG12, Sim07, SBH11, SW+10, TSN06, YNYH06, YFZ+18, YON05, YON06, ZLK+18, vHvdWvW02, vPVD10]. 

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

Table [Ano10f, Ano11k, Ano12m, Ano12o, Ano13s, Ano14q, Ano14r, Ano15o, Ano16s, Ano16t, Ano19i, LRF+11, RBLW07, WLS+18, CLS13a, NSL19]. Tables [BLE19, NOS+18, XHL18]. Tabletop [IFP+12, LL11, MBW+07]. Tabletops [IS14]. Tabular [GGL+14a, HTL13].
PDF14, WCC+18, YEB18, YS17]. TACO [NSH+18]. Tactile [BIA17, YNYH06].
Tactile/Tangible [BIA17]. Tag [LRKC10, RJSJ18]. tagged [CYW+16].
Tailored [BLO+05, HCMTH15]. Tails [SSS13]. Takes [Nie95]. Taking
[FFB18, GS16, Seq12, YAEO7]. Talk [SCB+19]. Tangent
[NJ99, ONL+12, WT10a]. Tangential [VB13]. TanGeoMS [TMH+10]. Tangible
[BSB+18, BIA17, HF10, HJC14, LPG+18, TMH+10]. Targets [SSE15]. TargetVue
[CSL17, FPV]. TaskBased [AG16b]. Task-Driven [AG16b].
Task-Overlapped [GPC+17]. Tasks [BM13, CGP+15, ERLW18, FM06, FKS16,
GJC+17, aKS12, KPR+14, LTM18, LRM+13, LB17, MCG12, MKT+18, MLS18,
OIR+17, PTM+18, RBS+18, SNH13, VBV+18, WBK+08]. Taste [KJH+18]. Taxi
[ADWK+17, FPV+13, HZM+16, IWL+17]. Taxonomy [WAPS14, ED07, ET08, KKC15,
KOJC12, KCW13, MRSS+12, Rot13].
Taxonomy-Based [MRSS+12]. Taylor [MMMY97]. Teaching
[BGM+17, KS1+96, RRJH18]. Team [SJL+18b, WXW+19]. Teaming [RCL+15].
Teammates [RCL+15]. Technial [Ano10d].
Technical [Ano11d, Ano12b, Ano13j]. Ano13k, Ano13d, Ano13f, Ano14k, Ano14l,
Ano14e, Ano14f, Ano16k, Ano16l, Ano16c, Ano16e, Bil13, Ehe17, Hee18, Sch13,
Sil17a, Sil17b, Sil18a, Sil18b, Sil19, Ym19].
Technique
[ARRC11, Ano05d, BS95, BE06, CLB+16, CM08, HBA14, HH16, JS98, KMM+13,
KK19, KSW06, MRS+13, MIO+15, PMN08, SMDS14, SMT13, SKP07, SFR+10, TNS10,
WWZ+18, WSM+09, WFM+12, YON05, ZLB+05, ZZG+12, vFWTS08]. Techniques
[AB01, BW03, BF01, BJM07, BL07, BMY05, BPS+11, CFEC17, DDGL07, DRMM13,
EF10, FWL17, JS06, JCRS09, Kas12, KZL07, Kei00, KCW13, MCG12, MJ09,
NT03, PJ03, PFW09, RBS+18, SPCJL06, SDMT16, SBJ+10, SKL+14, SOK+16a,
SOK+16b, VGS12, WBJ16, WEE03, YEH12, ZWBH13, JSV+08]. Technology
[Ano12g, BSI18, BR18, CCGR18, Ert10c, KJH+18, MW13, TL11, WLW17, vW11,
HK10, Min13]. Teens [ANR+18].
Teichm{"u}ller [JZLG09]. Telco [WXZ+16].
TelCoVis [WXZ+16]. Tele [Ohl18].
Tele-Immersion [Ohl18]. Teleoperation
[CWC+06]. Telepresence [BKKF13, KNR17, LWG05, OWS15,
PLE+18, RZP+07, ZLK+18].
Telepresentation [YNYH06]. Teleexistence
[TAK+05]. Tell [KDX+12]. Telling
[LKS13a, SH10]. Temperature [KLySK12].
Template [LG13, YLSL11].
Template-Based [YLSL11]. Templates
[HA18]. Temporal
[AAFW17, BFP14, BSH+16, BB+12,
BAB+18, BM17, CXR18, CHW+18,
DSP+17, FPV+13, FSE12, GJC+15, GBP07,
GHA+08, GS14, GFBF16, GDKB17,
HSCW13, HHH16, HSR13a, JFSK16, KKC15,
KSS09, KW19, KPS16, KRW19, LS09,
Lin16b, LSS09, LXR19, LPK+16, LYK+12,
MTM+16, MLL+13, SM17, SBE+15,
SLQW17, SPW02, TIS16, TN17, WPS+09,
WG16, WG12, WS09, WXW+19, YGFX19,
ZCD19, vLBR]. Temporally
[CR05, MVN+19, WLHL13].
Tennis [PYHZ14, RBLW07, WLS+18].
TenniVis [PYHZ14]. Tensile [SVAC12].
Tensor [AWHS16, BRSP18, BRP19,
CYZ+09, DGBW09, FA15, HLL17, HVSW11,
JKM06, KWH00, KW06, PYW+16,
PLC+11a, RBN+19, RKZZ19, RC06, SS08,
STS10, SGM+11, TKW08, WL16, WKB+13,
WX+08, YRP18, ZDL03, ZHT07, ZYLL09,
ZSL+16, ZPP05]. TensorFlow [WSW+18].
Tensors [AS98, GRT17, OJ12, SK10].
Terascale [TBR+12]. Term [LD11b].

Terrain [BKRE19, BS16, CE01, CCB+18, GY02, KLJ+09, LP02, Ste98, WSD+13, WBP07, WCB+12, ZSTR07]. Terrain-like [BS16]. Territorial [vGMSW15].

Tessellated [SPM+13]. Tessellation [LSPW12, RLW+11, YW16]. Test [JCWD14, KWP01, KYK11, LKK17, SVAC12]. Testbed [KMSB14]. Testing [WM19]. Tests [HFMC12, WLSW08].

Tetrahedral [SCT06]. Tetrahedralization [Mal05]. Text [AMJ+12, BLE19, CSL+10, CLC+15, CG08, CLT+11, CIWW14, DFG+14, DYW+13, FPB17, FBM16, GUFM15, GBW17, HKBE12, KJW+14, LB19, LKY+16, LYK+12, PKL+18, SOK+16a, SOK+16b, SSBC19, YFZ+18, vHWV09]. TextFlow [CLT+11]. Texton [War09]. Texts [BW17].

Texture [BW08a, BJELYL01, BMRR01, BKK07, CJR07, CR08, CDR+18, DT10, DWK+16, EWWL08, FST+14, GIS03, GO15, GKM+95, HAT+00, HPC+13, HDJ05, IFP07, JWD+14, KSNY17, KHS04, KBH13, LLPP19, LKY08, LHZ+04, LJWF12, MZX15, PS12, RB07, SLW+10, WWYS04, WEE03, WEE07, WDC08, YNBM11, YLY+12, ZDW+05, ZKK02]. Texture-Aware [DWK+16]. Texture-Based [HPC+13, WEE03, WEE07, CJR07, CR08]. Texture-Mapped [PS12]. Textured [APS+14, IYS13]. Textureless [SPP+14]. Textures [BS16, HE99, HHM14, JEH02, KXW+18, LA11, Ney98, QY07, Sc15, TDN+12, WWY14]. Texturing [BHW06, BH07, BMPB08, CDP04, DHM13b, FH06, KAK+07, MNZ+15, RDB+12].

Thaumatrope [SC15]. Theatres [LLKN17]. Their [HQ13, MSvG+11, OHJ+11, YLZ+13, BOZ+14, BLG+16, FNM13, PPF+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, SJL+18a, STS10, SZHR11, TTR10, VFR13, ZWJ12]. Therapy [ZZSS10].

There [WWZ+18]. Thermal [KJH+18, SGAS16]. ThermalPlot [SGAS16]. Thermoforming [ZT17].

Thickness [GLH+14, LGV+16]. Thin [ELF13, GLB+06, GQGP17, HN+06, SH12, VAW+17, WKZL04, YNYH06, ZQS11]. Thin-Shell [GLB+06, ZQS11]. Thinking [WCR+11]. Third [IYK01]. Third [Kas12]. Thomas [EDK10]. Those [RJD+07]. Thread [MMYK06, WKZL04].

Thread-like [MMYK06]. Threading [PTMB09]. Threat [PDBG18]. Threats [MKN+07]. Three [ADP02, BSL+14, CCAL12, EHS13, FZC+07, GNP+06, GNPH07, HEWK03, HN+06, HDR+19, MBS+04, NE04, RSFH14, SLB04].

Three-Dimensional [ADP02, BSL+14, CCAL12, EHS13, GNP+06, HEWK03, HN+06, MBS+04, NE04, SLB04, FZC+07, GNPH07].

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

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

Tight-Fitting [KZW+16]. Tile [HDJ05, NC07]. Tile-based [NC07].

Tileable [LPP+07]. Tiled [BI12, ETO+10, LSJ+15, NHH+07, RLM10, SM11, tCMR07, ETO+10].

Tiles [HCP+16].

Tiling [LLLF08]. Time [AL11, AMM+08, Auo14h, ASMP17, BS+16, BTG12, BRT12, BTB+04, BGM+07, BGM+08, BLS17, BAF+13, BTB10, BTH+13, BLIC19, BJ+19, CLS+12, CKW+12, CMF+18].
CLC+15, CK05b, CORLS96, CMPC06, CDA99, CSW18, CMP14, DAW13, DS16b, FWSL12, FKRW17, FSSH12, GKT+08, GSS+15, GSCI15, GMD13, GSL+17, GTPB19, GABJ08, GSDJ04, GWBO12, GB08b, GW11, GWP+16, GGPPS13, GT17, GHP+16, HMT19, HKF16, Har16, HE06, HB14, ILRC+12, IHR15, JD05, IBJ+14, JEG12, JME10, JS06, JY17, KRHH11, KL96, KL+09, Kin10, KC14, KLI12, KMD10, KG09, KGG+12, KDA+09, KBK11, KG06, LBP+16, LCR16, LDM17, LS02, LKC09a, LKC09b, LS09, LKR+18, LKS13b, LXT18, LMC02, MB03, MGMP18, MLKS18, MDL+19, MT01, NSH+18, NQX+05, NH+18, OBJ16, OKI15, PSS17, PD04, PPM10, PR17, Per95, PKMR15, QYH+18. 
Time [RGF+04, RHI+16, RS12, RYL+18, RS11H1, RLA+13, RHD+05, RASS17, RBLW07, SBV+11, SBS16, SOS+17, SK16b, SK07, SK08, SCL+12, SYK+18, SN10, SKU+12, SJH+07, SVGR16, SB06, SGAS16, SAC+08, SSR+07, SHR+11, SH00b, TIW+19, TCM06, THWS05, TWB17, TLC+10, THY+14, USE13, VMT06, WRM+10, WFKH07, WB16, WYM08, WTW+08, WC09, WC10, WFW+17, WHZ+18, WCJ06, WSE07, WXY17, WS06b, WS09, WY19a, XESV97, XCH+14, YML+17, YLK12, ZQS11, ZHX+11, ZKW+12, ZDM13, ZX18, ZCPB11, cKJG+12, dRBS+12, vdZCT16, CJR07, FSME14, GCML06, KBD+11, KW13, SFA+15, WSY+07].
Time-Dependent [GKT+08, HMTR19, KRHH11, KL96, KGCK+12, SBV+11, THWS05, USE13].
Time-Discrete [RS12].
Time-Domain [LS02].
Time-Hierarchical [FKRW17].
Time-Octree [WCO9, WC10].
Time-Oriented [AMM+08, RLA+13].
Time-Series [GLS+17, KLI+09, KBK11, SGAS16, WB16, XCH+14, ZCPB11].
Time-Varying [Aon14b, BRT12, BLLS17, CKW+12, CLC+15, CMP14, FWSL12, GABJ08, GSDJ04, GW11, GWP+16, Har16, HE06, JEG12, JS06, JY17, KG09, KG06, LS09, LMC02, OBJ16, PR17, SK16b, SK98, SB06, SSR+07, SH00b, TIW+19, WFKH07, WYM08, WC09, WC10, WCJ06, YLK12, DS16b, KC14, NSH+17, KBD+11, CJR07].
TimeBench [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 [Aon12p, Aon11l, Ano14j]. TOT [GPC+17].
TOD-Tree [GPC+17].
Together [ZCJH12].
Tokens [HJC14].
Toleranced [Gu09].
Tomography [AHR+11, WAG+12].
Tone [BKA+11, FYWY16, LR097, SJ10].
Tone-Mapped [FYWY16].
Tone-Mapping [BKA+11].
Tone [YGV+13].
Tool [BISM14, CXM19, CRI06, CGB+13, FPB17, HEFR18, IDA+14, KGS+08, LLL+19].
MLMF12, MHD+18, MAAB+18, NHHY18, PBO+14, SZD+10, SD12, SKW+11, SGPR18, SGB+19, UKF+18, YYT16, WOCH09].
Tool-Hand [CGB+13].
ToolKit [TLF+18, BDK98, BH09, CPW+15, HA17, SLC+19, MTR10].
Tools [BCJ10, BDF17, BYB+13, FH06, HKBR+14, NJ09, RBS+18, SP06, SH12].
Top [LS10, LFR03, SOR+09].
Top-Down [LFR03, LS10].
Topic [AG16b, CLR13, DYW+13, EASS+18, EASD+19, GJG+15, GNDV+18, KKP+17, LWL18, SLW+14b, XWW+13].
TopicLens [KKP+17].
TopicPanorama [WLL+16].
Topics [CLT+11, CLW+14, WLL+16].
TopKube [MLKS18].
TopoAngler [BDSS18].
Topographic [CD+06].
TopoLayout [AMA07].
Topological [AMA07, AJ19, BEHP04, CLB11, DFD+14, DCK+12, GKN05, GJR+14, GNP+06].
Transformations [DS89, LL05, MPK+13, YMY08].
Transforming [DW14, WSLL12].
Transforms [SK00]. TransGraph [GW11].
Transition
[AW03, GW11, MS18a, PV06, vHvdWvW02].
Transitional [JCG08].
Transitive [KL03]. Translating [NW15].
Translation
[DK13, GQGP17, IFP97].
Transmissive [HJS17]. Transonic
[CDL+16, DCH+17]. Transparency
[BCS11, BS11, CFM+13, CWM+09a, ESSL11, HC05, MM17, SC15, Zha14].
Transparent [DK13, GQGP17, IFP97].
Transparency
[HH07, HR07, HTF97, LYS09a, OH98, ZH07].
Transport
[BB09, DT10, FT09, HOG13, DSC16, SPS06, SZN+18, SKL+11, ZSG+13].
Transportation
[PGSF16, ZFA+14].
Transportost [OH06]. Travel
[SFR+10, ZLB+05]. Traversing
[GIK+07, HL09]. Traversing
[ZZM06].
Treatment [JSDS09, ZCD19]. Tree
[BHP12, BKH+11, CBLD11, GZ11, GPC+17, HSF+06, IPD+07, IC07, LPP+06, LXL+18, QYH+18, TSLR07, TdJ14, TdJ15, WXJD17, WV08, XYS+16, YRWG13, ZGH+18, ZT09, NSL19, TdJ14]. Tree-Parts
[XYS+16]. Tree-Structured
[TdJ14, TdJ15]. Treelike
[MK16].
Treemaps
[BL07, GSWD18, KHA10, KW19, SSV18, TC13, TS07, TS08, VvWvdW06, WD08].
TreeNetViz
[GZ11]. TreePlus
[LPP+06].
TreePOD
[MLMP18]. Trees
[AMA06, BSV11, CMM+97, DN13, EG09, FDC+18, GKO7, HSCS11, KW19, MSvG+11, MLMP18, PFP+11, SN97, TFO09, WFM+05, XXM19a, ZLD+14, TGSP09].
TreeVersity2
[GGLP13]. Trend
[MM12]. Trend
[GSL+17, LS09, LD11a, RFF+08, SKK+14].
Trend-Centric
[SKK+14]. Trending
[WOO17]. Trends
[AAFW17, BJCC+19, KNKH19, KBB+18, LRKC10, MOC+14, OJB16, WHZ+18].
Triangle
[AFRS05, GHJ+98, HHI10, HHHQ17, LXB17, LGLR14, MSL+06, Ros99, VP04b, WZW+09, YPI13, eYL07].
Triangles
[Far12, ZD12]. Triangular
[CCS12, De08, GSG96, HTF97, LFR03, Sti98, VCP08]. Triangulated
[BGG04, BEHP04, GH95, WDC08].
Triangulation
[FHSW13, GCT17, MS18b, QCT13, YSS+12]. Triangulation-Invariant
[YSS+12].
Triangulations
[HB03]. Tricubic
[KCOY93]. Trilinear
[AS98, CM10, HTF97].
Trimmed
[St098]. Trimming
[HR07a, SF19]. TripAdvisor
[NM13]. Trips
[FPV+13]. Trivariate
[RE01a, WLL+12].
Tropical
[LPCR19]. True
[HV13].
Trumps
[SOR+09]. Truncated
[NDS10].
Trust
[DLW+17, SSK+16]. Truth
[KDX+12].
True
[MK13c]. Truths
[LB17]. Try
[HSR13b]. Try-On
[HSR13b].
tSNE
[PLvM17]. Tubes
[STM08].
Tuboids
[PFK07]. Tubular
[AH11, SMG+13, WKB+13]. Tugging
[AMA11]. Tumor
[KKMS11]. Tuner
[TWSM+11]. Tuning
[BWSW12, LLL+12, MGJ10]. Tunnel
[ZZM06]. Tunnels
[BL+16]. Turbine
[SOL+13]. Turbulence
[KLSK12, LPQF14, TBR+12]. Turbulent
[HPAW07, LBM+06, LSY+18, SW97].
Turnaround
[NS95]. turned
[SBS16].
Turning
[WLHD17]. TV
[TKTN09].
TVCG
[De18b, Ano09a, Ano09b, Ano09c, Ano09e, Ano13a, Ano13b, CGGR18].
Twitter
[TKE16]. Two
[CF10, GLX17, GZG+18, HMBG01, JDL12, KBE+18, KRHH11, KBH13, KCP08, LVRH07, LTKF08, MPT03, SSON10, VHL14, WHK15, ZC06, HSKH07].
Two-Character
[KCP08].
Two-Dimensional [JDL12, KRHH11]. Two-Level [HMBG01, LVRH07].
Two-Manifold [KBH13]. Two-Pass [MPT03]. Two-Phase
[GLX17, KBE+18, PSN10, ZC06]. Two-Stage [GGZ+18]. Two-Way
[LTKF08, VHLL14]. Type
[LBH14, MS18a, ZCD19]. Typed [FMH08].
Types [BC18b, RESC16]. Typographic
[AMJ+12]. Typography [BM13, ERLW18].

Ubiquitous [BFE15, BMR+19]. Ugly
[BTS+18]. Ultra
[FSTG16, KWGD11, YDG+16].
Ultra-Compact [YDG+16]. Ultrasonic
[PH07]. Ultrasound
[HQS18, WKM15, zBBK14].
Unambiguous [BRH+17]. Unaugmented
[LBH18]. Unbiased [YWW14].
Uncalibrated [SM09, WLDW11].
Uncertain
[AJ19, FKLT10, GHP+16, LCP+13,
LPRCH19, PMW13, SE17, SNG+17].
Uncertainty
[AE13, ASE16, BBIF12, CZC+15, FBW16,
GSDW18, GBP+13, GR04, GBFM16, GHL15,
HLNW11, HKK18, HQC+19, LFLH07,
LLZ+16, LBR+17, LLLP07, MRO+12,
PH11, PRH10, RWG+12, SHM10, SSK+16,
SBZ+09, SZD+10, SKS12, SDW11, SBP08,
TK14, TVE14, WMK13, WPL96, WYM12].
Uncertainty-Aware
[CZC+15, LLZ+16, PRH10]. Uncluttered
[WJR+13]. Uncluttering [FT09].
Unconstrained [THV+14]. Uncover
[GdB12]. Uncovering [DBB10].
Underestimation [HUPS14].
Underexposed [ZNZX16]. Understand
[GGZL16, LLB+12, LWD+17, WGY18,
WGY19]. Understanding [AAB+13,
BCH+13, BZS+13, CLT+11, DSC+08,
FLF+11, GWP+16, HDR+13, KTC+19,
LM+06, LXC+17, LDM+18, LBLE+14,
LODI16, MRH+10, MGJ+10, MQB19,
NXW+16, UDSL18, VFR13, WLJ+12,
WKCB07, WWS+16, YaKS07, ZLC+19].
Unfamiliar [LKH+16]. Unicube
[HWL+11]. Unified [CM16, DVC07,
GLX17, KKY11, MFS+09, RBB+12, SI05,
TMWS13, WWS+18, ZFSL19]. Uniform
[BT14, LLKN17, NO97, ONL+12, Zha05].
Union [DN13]. Unit [MG+10, PDFE18].
Units [MB19, tCMR08]. Universal
[vdZCT16]. Universe
[FH07, GB08a, MOC+14]. Unobstructed
[CGB+13]. Unsteady
[BS95, BMLC19, FC95, FPH+08, GZL+14,
GHP+16, HLNW11, HLG+14, JEH02, LMO5,
SWCR15, WSTH07, WSE07, WGS07b].
Unstructured [CICS05, CBPS06, CDM+07,
FPB17, FBM16, GJ10, Har16, KM06, MJK06, MHDH07,
RL08, USM96, USM97, WSM98].
Unsupervised [KEV+18]. UnTangle
[CLG16]. Untangling [DFW+12, RD10].
Untapped [HFM16]. Untrained
[KNKH19]. Unwrappable [FWZQ13].
Upper [MZH+08]. Ups [VB18, LLN+14].
Upsampling [YGFX19]. UpSet [LSG+14].
Urban [CKW+07, CHW+18, DZM16,
DFD+14, FPV+13, HZM+16, MSL+17,
MPB+14, OSS+17, PY09, QWC+09,
SZY+18, SWF+16, VABW09, WXZ+16].
Usability [GS08, KWL14, KLD+09, Sim07].
Usage [SOK+16a, SOK+16b]. Use
[BVW+07, CFEC17, DPW+15, HJC14,
akS12, LMK07, PGR+13, RB11, TJS+17,
WZ08, WKB+13]. Used [RZP12, WCR+11].
Usefulness [KPR+14]. User [BHST17,
BTH+13, BLO+05, BGR06, CSL+16,
CLRP13, DC17, DLF+09, EASD+19, FCL09,
FM06, GS08, GDJ+13, GBFM16, HF10,
HB13, HOG+12, J090, KKK18, KGAM18,
KKW+17, LKJ+05, LKD19, LWQ17,
LAK+11, LHYG12, LCS+12, MFZ+17,
MPG+14, PLvM17, PSM12, Pbk+12,
PBC17, RGFL14, RLM10, SKK06,
SBZ+09, SS06b, SMP17, SPG14, XRP+12,
User-Assisted [LAK+11]. User-Author [ZGB+17]. User-Based [GS08].
User-Centered [GDJ+13]. User-defined [JJ09]. User-Driven [CLRP13, SPG14].
User-Generated [DLF+09, vHR08]. User-Guided [BTH+13, MFZ+17].
User-Perspective [BHST17].
User-Steerable [EASD+19]. Users [BOZ+14, FTES13, GMD+17, HGWW18, LKD19, PPP12, SQG16]. User-Defined [Sat13].
Using [AJDL08, AMJ+12, AZM12, AHK+17, Ano96b, ASMP17, AWB11, AERA14, AHL+13, BA05, BSS+13, BBC15, BB09, BDF16, BJLEYL01, BT13, BBD+11, BSE+17, BSKR19, BWC04, BJM07, BJB+12, BWW+17, BSO+12, BARM+12, BPM+13, BWT+11, BMPB08, BC12, BDW+08, CGC+11, CGD97, CvW18, CPW+18, CDR+18, CML+07, CDS+12, CCM+13b, CGV13, CL06, CKLL09, CMM+97, CML+12, CCM12, CRB+05, DK11a, DHL09, DRW16, DLl14, DWB+06, DFD+14, DYW+13.]

User-Assisted [LAK+11]. User-Author [ZGB+17]. User-Based [GS08].
User-Centered [GDJ+13]. User-defined [JJ09]. User-Driven [CLRP13, SPG14].
User-Generated [DLF+09, vHR08]. User-Guided [BTH+13, MFZ+17].
User-Perspective [BHST17].
User-Steerable [EASD+19]. Users [BOZ+14, FTES13, GMD+17, HGWW18, LKD19, PPP12, SQG16]. User-Defined [Sat13].
Using [AJDL08, AMJ+12, AZM12, AHK+17, Ano96b, ASMP17, AWB11, AERA14, AHL+13, BA05, BSS+13, BBC15, BB09, BDF16, BJLEYL01, BT13, BBD+11, BSE+17, BSKR19, BWC04, BJM07, BJB+12, BWW+17, BSO+12, BARM+12, BPM+13, BWT+11, BMPB08, BC12, BDW+08, CGC+11, CGD97, CvW18, CPW+18, CDR+18, CML+07, CDS+12, CCM+13b, CGV13, CL06, CKLL09, CMM+97, CML+12, CCM12, CRB+05, DK11a, DHL09, DRW16, DLl14, DWB+06, DFD+14, DYW+13.]
[MF11, QH18]. Valley [OMD+12]. Value [GCNF13, KHDL07, WAM+19, YHW+07].
Value-Cell [KHDL07]. Value-Driven [WAM+19]. Valued [GK95, GPP+16].
Values [Zag96]. Valve [BSS+14].
Variance [AAGS19, FFS19, FBW16, HSSK16, JBMS09, KBL19, PMW13].
Variable [BBIF12, FC95, GABJ07, JH16, MCP+06].
Variable-Speed [FAC95]. Variables [AT16, BI12, GDST16, GHL15]. Variance [BGOJ16].
Variance [AT16, BI12, GDST16, GHL15]. Variance [BGOJ16]. Variant [FNM13]. Variants
[FM14]. Variate [LD11a, WS06b, YXC+10]. Variation
[GQ+18, HHZH17, ZWZD16].
Variational [BS08, CYC+12, ZWZD15]. Variations [LG12, RKB+16]. Variety
[DSP+17]. Varifocal [DTT+17].
VarifocalReader [KJW+14]. Varying [Ano14h, AM13, BRT12, BLLL17, CKW+12,
CLC+15, CMP14, DB07, FWSL12, GABJ08, GSDJ04, GW11, GW+16, Har+16, HE06,
JEG12, JS06, JY17, KBD+11, KL+SK12, KG+J09, KG06, LLL+12, LS09, LMC02,
MVN+19, NJ99, OBJ16, PSR17, RBDG15, SK+16, SK98, SB06, SSR+07, SH00b,
TIW+19, WFKH07, WMY08, WC09, WC10, WCJ06, WS06b, YL+K12, CJR07, DS16b,
KC14, NW+17]. VASA [KZX+14].
Vascular [KOC+C14, KGPS13, RHD+06, WJR+13, JQD+08]. VAST
[Ano12g, ERT10c, MW13, vW11, Ano16u, Ano18h, Ano18i, Ano18j, Ano19j]. VAUD
[CHW+18]. VDR [YSGM05]. VDVR
[XZM10]. Vector
[AJLD08, BW08a, CML+07, CMLZ08, CKW+12, CM02, CLB+16, DANS10,
DPR00, DNP07, ES05, FBW16, FCL09, GPR+01, GKT+08, Hau97, HEWK03, HA04,
HE06, HLD+08, JKJ+05, LJJ04, LVRL06, LCS06, LTWH08, LHYYYY, LFR03,
MBS+04, MCHM10, MK+3b, NJ99, NLS11, PGL+12, RLH11, RT12, SMKR98, SB04,
SLB04, SWCR15, SRW+16, SWB17, SZ+12, SS13b, TWHS05, USE13, WASQ18, WT10a,
WJE01, WGS07b, WPL96, ZBG+17].
Vector-Based [CLB+16]. Vectorial
[HJR01]. Vectorization
[YCZ+16, YHL+17]. Vectorized
[HXF+15, SG08]. Vectorizing [ZCZ+09].
VectorLens [DMC15]. Vectors [BHD04, FPH+08, JCDW14, OLN+12, VP09].
VEEVIE [PGK16]. Vega
[SRHH16, SMW17]. Vega-Lite
[SMW17]. Vehicle [ZHLR14]. Vehicular
[FCZ15]. Velle [SB17]. Velocity
[CS08, NSE+12, PT17, YNBH11]. Velocity-Aligned [CS08].
Velocity-Dependent [NSE+12]. Venn
[Wir12]. Ventricular [HTP+08]. Verge
[Kra16]. Vergence-Accommodation
[Kra16]. Verifiable [ESN+09, ZXM10]. Verification
[EGG+12, ENS+12, GVVE07, HAGS16]. Verifying [EJR+14]. Verisimilitude
[Yon14]. Versatile
[HWW18, LDC96, PBO+14, SR17, YLX+12].
Version [CMFL16]. Versus
[CHi16, HSIKH07, DFG+14, GLM+17, KYT+18, PTM+18]. Vertex
[CM02, KXW+18, LY06]. Vertically
[SM11]. Vertices [FPH+08]. Very
[IV11, KPR+15]. Vessel [AMB+13, LLL+12, MVB+17, RHR+09, JQD+08]. VGTC
[Ano12h, Ano13]. Ano13k, Ano13c, Ano13e, Ano13d, Ano13f, Ano14l, Ano15c, Ano16k,
Ano16l, Ano16d, Ano16e, Meh17, Sil17a, Sil17b, Sil18a, Sil18b, Sil19]. Via
[GQM+18, ADDG12, BYA15, BMS17, BDD+16, BMW17, BSV11, BSHH15,
CGL+17, CWT+08, CYB08, DZMQ16, DT10, Eib95, GMD+16, GSCI15, GNDV+18,
GGZ+18, HKYM17, IPF97, JKMO1. KCPE16, LYY+16a, LS13b, LL14, LSY+18,
LFW+19, MSA17, NXS13, OOKS16, PSKN06, PKL+18, PW12, RB07, RB18,
SSV18, SSW18, TC09a, TW18, WWB+13, WSYM17, WAG+12, WMA+16, WS09,
WPZ+11, YHLJ08, YYFX18, ZHZ15, ZWC+16, ZNZX16, ZWLC19, ZCW19, ZKK02, vdlEvW14, vLBR+16. Vials [SAB+16]. ViBr [CXDR19]. Vibrotaclte [LBHW18, dJOBNM17]. Video [Ano14h, BGCS17, BC18a, BBS+08, CBH+06, CCL+16, CRH05, DFG+14, DTW+15, FH06, FR13, GSPJ08, HB14, HKH+12, KBD+11, KCW13, LHJ+18, LPC+13, LPS+13, LGYW12, LLY+13, LDX10, LZW+13, LXT18, M13, MFZ+17, NXS+13, OH12, PLC+11b, PZ07, PWG17, Rob98, RSSA08, RG95, SJL+18b, SBE+15, SJK+12, TTO5, TUG17, WKB+08, WLH+13, WLT+18b, WLI+12, YLI+12, ZHQ+07, ZNZX16, ZLX+18]. Video-Based [FR13, ZLK+18]. VideoPlus [Ray02]. Videos [ARL+17, RPAC17, SZN+18, WKC07, WKB+08, WCD+16, ZDJ+09]. ViDX [XMRC17]. View [AS98, BH07, BSEN18, BNTM16, CLW18, DTT+17, FNM13, GLR+13, GR15, GYO2, HSH07, IYS+13, JS06, KLMA10, KERC09, KNO15, LP02, MS+18a, MCH+10, MGJ+10, MTB17, MSM+11, PD04, PBK+12, RBK+15, SM09, SOS+17, TEC+16, TLS17, Wah14, WC09, WC10, WKME03, YSGM05, ZEC08, Zhu05]. View-Dependent [GLR13, GYO2, HSH07, KNO15, LP02, MCH10, PD04, TEC+16, TLS17, WC09, WC10, YSGM05, ZEC08, Zhu05]. View-Independent [SM09, WKME03]. Viewable [OH09]. Viewing [BHW06, IDW+13, KBKG07, LHI11, LLKN17, LDN11, LOD16, LSK+18, TKN+09, TUG+17, vWN04]. Viewings [RCW+18]. Viewpoint [LAIK16, JNC+15, LPS+13, LDX10, TMWS13]. Viewpoint-Dependent [LAIK16]. Views [BBH+17, BBD06, BGO6, CMP09, GKN05, HTC09, LBD13, LKD19, Lin16b, QH18, SY+18, WWZ+19, Wea10, WAG06, ZAM11, vW06, vdEHvW14]. VIGOR [PHE+18]. Virtual [ANR+18, Ano12e, Ano14j, Ano14d, Ano14e, Ano15c, Ano16d, Ano16e, AM13, AS11, BGC+11, Bii13, BB07, BZS+13, BAP+17, BTB+04, Bii13, BL15, BPS13, BDH+18, BPS12, BSWL12, BLRW05, BC18b, CPG+15, CWL+12, CDAF18, CLL08, CGJ+19, CPK+05, CR06, CVC+12, COMP13, CWC+06, CMPC06, CLS13a, DS71a, DS18a, DV95, DJK+06, DL12, DRHK07, DDKA06, ERL+13, ES98, FK16, FS14, FBJ07, Fuc13, GLM+17, GPL+13, Ger17, GWP+18, HK10, HBJP12, HSR18, HWK16, HSR13b, HHCL01, HMT10, HSH04, HLRC+12, HBT14, HK16, HR11, ILMH12, INCB18, JBS+18, JAAL18, JPD+18, JAM+14, JSB13, JWL05, KJH+18, KHS14, KBS13, KPBL16, KCT+17, KKL11, KYT+18, KKPS08, LPG+18, LK09b, LYS+10, LBHW18, LLQ+17, LSN09, LIM+12, LBS+16, LvL12, LW+06, LDR00, MWC06, MY13, MBZ12, MRG+15, Meh17, MF11]. Virtual [MLS18, MTO1, NNM+18, NWF+05, NS14, NTS11, NSS03, OBK18, OBS+15, OIR+17, PF09, PWK16, PBK+12, PG12, PB16, PGI+17, RBK+15, SB17, RJ+07, RCW+18, RZ+07, RGFL14, RKA+13, RCL+15, Ros13, SG06, Sat13, SSI09, Sch13, Seq12, SL08, SML17, SzL10, SGJ18, SLMA06, SLO8, SFL+16, SBHW11, SB14, SE19, SAC+08, SFR+10, SLF+12, TMDO15, TMM+13, TL11, TLY+18, UK12, UGF+18, VSS08, VBC+16, Wah14, WGR+18, WXJD17, WL17, WK06, WGC08, WBA+14, YQK+17, YAE07, YFY+18, ZLB+05, ZK17, ZBB+06, ZKM18, vPBB+11, vTRmvM97, SL11]. Virtual-Reality [DJK+06]. Virtuality [RRD+13]. Virtualized [SvdBLM11]. VIS [GCML06, IHK+17, Ano09e, Ano13v, Ano13t, Ano13u, Ano14d, Ano14e, Ano14f, Ano14g, Ano16p, Ano16v, Ano16w, Ano16x, Ano17p, Ano18k, Ano19k, LB19, Ano09d, OSS+17, RSSA08, SGB+19]. Vis-A-Ware [OSS+17]. VIS-Stamp
Vis4Heritage [KLYE13].
Vis4ML [SKKC19].
VisBricks [LSS+11].
VisComplete [Koo08].
Viscous [BK17, LBS+19, PT17].
VisDock [CPW+15].
VisFlow [YS17].
VisGets [DCCW08].
Visibility [CICS05, COCSD03, CFW04, CM11, DAC11, FWT+04, HXF+15, KS01, KJL+12, KKCS98, LRP97, LSS13, ME18, MAST16, OSS+17, PPZ+12, Ste98, WC13, ZZZW08, vRKEE17].
Visibility-Aware [OSS+17].
Visibility-Driven [CM11, ZZZW08].
VisibilityCluster [WC13].
Visible [IIS14, KS00a, KS00b, MCP+06, TSB+05].
Vision [CK16, CWC+06, DH08, EIJK18, MOF09, MOF10, OTKS15, RSSA08, SS95].
Vision-Based [DH08].
Visitor [LWD+17].
VisMatcher [MLM12].
VisSizer [WLLM13].
VisLink [CC07].
VisMashup [SLA+09].
VisMatchmaker [LWZQ17].
VisOHC [KKL+16].
Vispedia [CWT+08].
Visplause [ASMP17].
Vispubdata.org [IKH+17].
VisTiles [LHD18].
Vistrates [BM+19].
Visual [AHSS14, AJDL08, AABH+16, AMM+08, AAMG12, AAMH13, AHH+14, AHRT10, AABW12, ABC+19, Ano12g, ASMP17, AERA14, AIS18, BW14, BDF16, BBD+11, BCT13, BKW16, BMCLC9, BHZ+18, BAAK+13, BI12, BBG+09, BJK+16, BAF+13, BAR+12, BSEN18, BPM+13, BBFI12, BDD+16, BISM14, BC12, BSD+09, BM10, BSWL12, CDDS18, CGSQ11, CWZ+14, CSL+16, CLG16, CLZ+18, CD19, CGM+17, CWT+08, CBH+06, CCM+14, CYW+16, CCL+16, CXXR18, CHW+18, CVG13, CDF14, CDW+16, CORLS96, CMC106, CLB11, CMC12, CFEC17, DVP+18, DLW+17, DSG+17, DGWC10, DR08, ERLW18, EIC00, EASS+18, EASD+19, EDF08, ERHRF10, EDF11, EGG+12, ERT10c, EBB+15, FHKM17, FKLT10, FPV+13, FMH08, FHG+09, FZCQ17, FWG09, FBW16, FFG+14, GBRW10, GKL+13, GJZ+12, GS14, GHL18, GLG+13, GS06, GRVE07, GBFM16, GHL15, GXZ+18, GJG+19, GDB17, HSCW13, HWHK16, HEFR18, HSR13a].
Visual [HKR+08, HE12, HKBE12, HKE16, HEL+17, HLRC+12, HWW+14, HFG+12, HME+14, HPV+18, HST+18, HTA+15, HZM+16, HAS11, HOGJ13, HVF13, HJC14, IDA+14, IFP+12, JER16, JBMS09, JFS16, JAO+14, JEE13, JYC+10, KAKC18, KTC+19, KGS+08, aKGS11, aKS12, KLYE13, KBE+18, KNR17, KLM+08, KMDH11, KHI13, KKe02, KRTvW06, KHS+19, KV08, KKL+09, KKP+17, KOJ+14, KBE11, KJW+14, KDM+16, KMG+06, KBB06, KSDD14, KFS+19, KPS16, KSO2, KTE15, KSE18, KG06, KRRW19, KW13, KHSW17, KKL+16, KEV+18, KCK+19b, LSS12, LBS13, LMK07, LHD18, LRM+13, LCP+13, LGM+18, LBK+18, LXC+17, LWCC18, LBL+06, LIn06, LSS09, LSO10, LH14, LS16, LYW+16, LWL+17, LDM+18, LXL+18, LBT+18, LLL+19, LGS12, DSC+16, LFA+16, LDFZ14, LWLM18, LFV+19, MWSJ14, MRO+12, MRH+10, MPK+13, MHS07, MEV+14, MRRS+13, MMT+14, MWCRO6, MKN+07, MFM+13, MPW12, MGJH08, MGKH09, MGJ+10].
Visual [MGS+14, MES+11, MGB+19, MBB+12, MPOW17, MW13, MAAB+18, MGM09, MZC+16, MTRP10, NHB+17, NHEM17, NSN14, OJ15, JOB16, OSS12, ODH+07, OJEF19, PBN+13, PSSC17, PPF+11, PSM15, PSTW+17, PKG16, PKL+18, PGU+13, PVF13, PQF+09, PldM+17, PHV+18, PHE+18, PTMB09, PDW+14, PSM12, PB16, POM+09, PV06, QPNK18, QCX+07, RBK+15, RWF+13, RFL+18, RLA+13, RNF+17, RM15, SSS+14, SSK+16, SZZ+17, SKKC19, SKBE17, SNL06, SSEW19, SGB13, SKZ15, SHB+14, SW13, SMER06, SWY+17, ZSY+18, SBB+18, SNP+16, SKU+12, SYS+06, SLK+17b].
SLMA06, SS18, SWS+11, SPG14, SSL+12, SGPR18, SGB+19, SWL+14b, TAE+11, TKE16, TBHC16, TeVT14, TFJ12, TWSM+11, TSD09, TFH11, TLLH12, TSH+14, USKD12, UDSDL18, Vas16, VJC09, WSH+19, WSD+13, WDC+18, WCR+11, WSO6a, WK13, WzdW13, WYL+14, WM16, WFW+17, WFGS19, WGSY19, WCC, WXZ, WM16, WFW, SGPR18, SGB, +BVPtHR09, BM13, BE09, BPS, BEJK12, BRBF14, BEDF16, BHTY15, BVPtHR09, BM13, BE09, BPS+11, BGM+17, BMW17, BFTWO9, BvL06, BVB+11, BTJ+13, BAW16, CR08.

Visualization [CDC+07, CSL+10, CFM+13, CCH+14, Car19, CZ11, COJ15, CKW+07, CBH+06, CYB08, CWDH09, CJ10, CCAL12, CZC+15, CG16, CGJM19, CCJ+19, CDA+16, CLC+15, CR106, CCQ+14, CPW+15, CFHH09, CMPS97, CDM+04, CvW11, CDF09, CW11, CSCO6, CM09, CDM+06, CRB+05, CZQ+08, CRPH10, CMP14, DK11a, DPW+15, DSSK08, DBM+06, DDW14, DBH14, DZMQ16, DFQ12, DDLO7, DGBW09, DBW11, DPR00, Di17, DDB17, DK11b, DLR09, DTW+15, DWBR06, DHR+19, DCH+17, DRMM13, DB07, DWS10, ES01, Ebe17, EG1+06, EDF08, ET08, EF10, EHP+11, EMdSP+15, ESN+09, FYTL19, FWD+17, FPB17, FKRW17, FCL09, FC95, FSE12, FSME14, FTES13, FH07, FH16, FM04, GGTH07, GJ10, GNBP11, GLvP+12, GJG+18, GLH+14, GHGM06, GNSP+14, GJC+17, GDJ+13, GLK+13, GSWD18, GABJ07, GABJ08, GGA+11, GHL18, GTS10, GTS11, GRS95, GMM05, GK95, GBM+12].

Visualization [GKM+15, GY02, GST16, GCML06, Guo09, GMY11, GXY12, GGZL16, GLX+18, GKK+12, HBJP12, Hg98, HHO+17, HVY16, Han16, Han18, HM95, HHB16, HW12, HKQ13, HE99, HKR+08, HE12, HD12, HA06b, HMSA08, HB10, Hee18, HP04, HSF+06, HA04, HPAW07, HFM07, HMM00, HSSK16, HBA14, HSC08, HLNW11, HKB+19, HHK+12, Hol06, HZH14, HNR+06, HPC+13, HTA+15, HD11, HDR+13, HQC+19, HEF+14, IPD+07, IC07, IDW+13, IIC+13, IKH+17, IIS+17, IYIK04, INCB18, JHKH13, JEG12, JWSK07, JBS08, JHH+10, JKMO1, JKM06, JKJT16, JKM07, JFTW07, JBH+09, JPL16, JGHO8, JEH02, JCG08, JHO9, KMS09, KPHH12, KSG+16, KCJ+10, KHE09, KAM+08, KERC09, KHI3, Kei00, Kei02, KHS+18, KOC12, KOC14, KGD+19, KKS13, KV06, KZD+10, KJW+18, KRH18, KW06, KS14b, KC1+16, KAK+18, KWGD11, KBH+10, KBVH17].
Visualization [Koo08, KW19, KLL12, KK19, KG09, KBE09, KKKW05, KSW06, KHH+16, KMLM16, KCM18, LBS14, LKJ+05, LAM03, LBI+08, LS07a, LVRH07, LCMH09, LwWJ04, LHH+12, LLL+12, LB19, LGV+16, LTPH17, LS09, LIRC12, LSS13, LkH+16, LkK17, LkHW04, LlLT04, LS+11, LGS+14, LDC96, LlL06, LlTW08, LB18, LDN11, LBH11, LBLH19, LP02, LLR08, LlCD11, LNS08, LS10, LCS+12, LST+16, LBR+17, LDA12, LPK+16, LTP+05, LwL14, LSM03, LLPY07, LRF+11, LLCM12, MLMF12, ME19, MRO+12, MKHD05, MB03, MB19, MHG10, MDL07, MG107, MAr18, MK16, MCK12, MHD+18, MAK08, ME09, MMAM14, MKi09, MGM19, MI13, MJK06, MSW+08, MMYK06, MSE+06, MRS+13, MV+17, MSSD+08, MKW07, MDs+18, MqF06, MsS+18, MTW+12, Moo03, MMCE09, ME11b, Mor13, MWN+19, MHDG11, MGW10, Mun09, NM10, NGK18, NW15, NDM+97, NJB07, NLKH12, NKH14, NSW+17].

Visualization [NKHC08, NZ06, Nie95, Nie96, NSL19, NOB16, NSvW11, NH06, NASK18, ORRL10, OJ12, OHJ+11, OM09, OR98, OR99, OSS+17, OPH+16, OSB14, PW95, PZ12, PZ1, PLC+11a, PBO+14, PMN+14, PSK06, PK13, PKG16, PPL+99, PLC+11b, PGL+12, PK5+08, PPZ+12, PK16, PHJ10, PSBS12, PW12, PYH14, PRA+10, PSM07, PPvA+11, PBC11, PMD+07, QMK+06, QH18, RESC16, RGf+04, RB19, RVG06, RbgH14, RBS+18, RPS9C9, RgK+13, RGP+12, Rob98, RJH18, RFF+08, RASS17, RB11, RHR+09, RPH08, RP12, RKG+18, RB18, RM15, RSD+13, RVWT05, SM110, SMDS14, SP06, SP07, SBKE17, SSRE18, SE17, SSC+16, SLA+09, SZB+09, SZD+10, SRHH16, SHV16, SFBP09, SKS12, SWC+08, SOP+12, SKK+14, SK16b, STS07, SHSi1a, SHSi1b, SNHS13, SASS16, SNG+17, SFMB12, SH10, SG09, SKYs14, SBG06, SS16, SOL+13].

Visualization [SAM+07, SLB04, SL+12, SW+15, Srm19, SSG12, SA06, Sil17a, Sil17b, Sil18a, Sil18b, Sil19, SJH+07, SVGR16, SPCJL06, SCM+06, SOL+16, SD12, SPEB18, SG+19, STH02, STH03, SB17, SEB19, SPB08, SOR+09, SSBC19, SGM+11, SEA09, SSG16, Sac18, SS13b, TH13, TD95, TSLR07, TLD+12, TMwS13, TWSK14, TWSS16, TC06, TDR10, TBB+07, TBB+08, TC09b, TCM10, TIC09, TSSA12, TLS17, TM04, TKAM06, TBR+12, TGS11, TNS10, USM97, UKF+18, VzS18, VlB09, VP04c, VfR13, VvWvH+07, VFW09, VKG05, Vl18, VB18, WJA+17, WBJ16, WS06a, WGS07a, WGM+08, WLT08, WYM08, WWLM11, WSA+16, WFC+18, WWS+18, WLF+19, WJC06, WLT+09, WEE06, WSE07, WZ08, WCD+19, WAC+12, WTS+07, WKB+13, WRT19, WS01, WR+13, WWFT03, WSM+09, WFM+12, WG12, WMA+16, WIFI+12, WKD19, WS06b, WS09, WKSS05, WWL+10, Wllm13, WP16b].

Visualization [WcA+17, WLS+18, XHT+07, XSS+17, XLs10, XR+12, XCI9, YESK95, YGv+13, YHY+19, YaKS07, Ynn19, YN06, YSt+10, Ys17, YNC06, Ysz+19, ZHT07, ZH07, ZLYL09, ZWA+13, ZSL+16, ZCD19, ZFS+19, ZCCB12, ZGB+17, ZBG+17, ZXM10, ZAM11, ZzBW08, ZW18, ZOC+13, dLVvL06, tCMR07, tCMR08, vHvDvWvW02, vPPB+10, vPVvDvW10, vWPSP96, vWC06, vW06, vW14, vEHvW14, vFWS08, vFrr17, zBBK14, BPC+10, CJR07, FHL10, GSL14, GLS17, JQD+08, THT19, WCH09, WBD14, Joy02, MSF+09, SGR06, Var01, vWM10].

Visualization-by-Sketching [SK16b].

Visualization-Driven [HB12].

Visualization-Opportunities [KGD+19].

Visualizations [AS05, ARh+13, BSB+18, BLE19, BBD+11, BDFM17, BV+19, BGP+11, CC07, CPC09, CLKS19, CWRy06, DBB10, DBD18,
YESK95, YLX\(^{+}\)12, YL95, YNCP06, ZM13, ZDM13, XZM10, ZAM11, ZWM13, vPVvdW10. Volume-Accurate [AGDJ10]. Volume-Based [PMP10]. Volume-Preserving [HZH14, RSB96]. Volume-to-Volume [FE17]. Volumes [BMA\(^{+}\)19, CMCL06, EMRY02, FG99, HBAB14, HK99, IVJ12, JS06, KCOY03, KSTE06, Ma06, MKW\(^{+}\)08, SMG\(^{+}\)13, SKMH14, Si95, WFKH07, WD10, WFG\(^{+}\)19, vRKEE17]. Volumetric [ASDW14, BKRE19, BAAK\(^{+}\)13, BKS01, BS02, BG07, EM06, FMST96, GW11, GWP\(^{+}\)16, HRN\(^{+}\)03, JFTW07, JFY16, JY17, KPR\(^{+}\)15, KUKT8, NSE\(^{+}\)12, NSN14, OBK18, PFW09, PFW12, SHV\(^{+}\)18, SJ\(^{+}\)10, SLF\(^{+}\)12, ZWBH13]. Walking-In-Place [NSN14]. Walkthrough [ZC11]. Walks [ZC11]. Wall-Bounded [HPAW07, LSY\(^{+}\)18]. Wall-Displays [PBC17]. Wall-Sized [BI12]. Walls [LSJ\(^{+}\)15, RLM10]. Want [GMD\(^{+}\)17]. Ware [OSS\(^{+}\)17]. Warning [KGAM18]. Warped [LM10]. Warping [CK05b, IHK05, LYY08, LLY\(^{+}\)13, MZX15, SSB\(^{+}\)17, STH13]. Waste [KHLM17]. Watchers [KWS\(^{+}\)14]. Water [LHBF19, LPS\(^{+}\)13, ZWW\(^{+}\)12]. Watercolor [DKMI13]. Watercolorization [Yon14]. Watermarking [DNP07, WH09, YPRI17, ZTP05]. Watershed [MW99]. Wave [DBM\(^{+}\)06, Kas12, MAK14, MRG\(^{+}\)15, SRK\(^{+}\)11, MRG\(^{+}\)15]. Wave-Based [MAK14, DBM\(^{+}\)06, MRG\(^{+}\)15]. Wavefront [XWL\(^{+}\)15]. Wavelet [CJT05, DVP\(^{+}\)18, DL03, JBMS09, LF97, LS13b, Mur95, PA06, V04a, V04b]. Wavelet-Based [DVP\(^{+}\)18, PA06, V04a, V04b]. Wavelets [BDHJ04, GK95, GSG96, HQ13, LWZ\(^{+}\)16, WQS07, WL16]. Waves [KLCK17]. Way [BRBF14, KBS13, LTKF08, VHL14]. Wayfinding [HLB\(^{+}\)18]. Weaknesses [DBB10]. Wearable [KNR17]. Weather [BLLS17, FKR17, KTB\(^{+}\)18, ME19, QM16.
REFERENCE

[AA11] Natalia Andrienko and Gen-
nady Andrienko. Spatial general-
ization and aggregation of massive movement data.
REFERENCES


Andrienko:2013:STU


Ai-Awami:2016:NVT


Andrienko:2018:CTR


Al-Awami:2014:NSM


Andrienko:2012:VAM


AAFG18


Andrienko:2017:RPT

Gennady Andrienko, Natalia Andrienko, Georg Fuchs, and Jo Wood. Revealing patterns and trends of mass mobility through spatial and temporal abstraction of

Andrienko:2019:AFV


Andrienko:2013:SAM


Alsallakh:2012:RCW


Alsallakh:2013:RSI


REFERENCES

Al-Dohuki:2017:SNA

Athawale:2013:UQL

Attene:2005:SBR
REFERENCES

Alcazar:2016:FAR


Alexander:2016:TDC


Alcazar:2017:DWI


Anderson:2010:SVA


Ahn:2006:CRL


Ahmed:2017:SPP

Angelelli:2011:STF

Alsallakh:2014:VMA

Aldrich:2017:AVD

Auber:2013:GUG

Amirkhanov:2011:PBM
Artem Amirkhanov, Christoph Heinzl, Michael Reiter, Johann Kastner, and Eduard Gröller. Projection-based metal-artifact reduction for

Amirkhanov:2010:VOS


Abello:2014:MDI


Asayama:2018:FDV


Andres:1997:DAH


Alam:2017:AET


Athawale:2019:PAD

[Tushar Athawale and Chris R. Johnson. Probabilistic asymptotic decider for topological

**Acevedo:2008:UVD**


**Abello:2002:MSV**


**Acevedo:2006:SQP**


**Kang:2011:HCV**


**Kang:2012:EUV**

Ahn:2011:RTR


Albo:2016:RCE


Albuquerque:2011:SGH


Arvanitis:2019:FPM


Andrienko:2017:P


Antani:2013:APD


Archambault:2006:SPF

Daniel Archambault, Tamara Munzner, and David Auber. Smashing peacocks further: Drawing quasi-trees from biconnected components. IEEE Transactions on Visualiza-
REFERENCES

Archambault:2007:TMG

Archambault:2008:GSE

Archambault:2011:TGF

Auzinger:2013:VVU

Alim:2010:GER

Afzal:2012:STV
REFERENCES


[AMM+08]

[Andrews:2013:IPN]


[AN13]

[Anonymous:1996:CNO]


[Anonymous:1996:C]


[Anonymous:1996:CNO]


[Anonymous:1996:C]


REFERENCES


REFERENCES


Anonymous:2003:RL

Anonymous:2003:AI

Anonymous:2004:AI

Anonymous:2004:RL

Anonymous:2005:ENA

Anonymous:2005:ENb


REFERENCES

Anonymous:2008:BMB


Anonymous:2008:CP


Anonymous:2008:PP


Anonymous:2009:AIT


Anonymous:2009:HQS


Anonymous:2009:RLT


Anonymous:2009:TVIb

REFERENCES

Anonymous:2009:TVIa


Anonymous:2009:AI


Anonymous:2009:RL


Anonymous:2010:VCA


Anonymous:2010:VTA


Anonymous:2010:AIC


Anonymous:2010:TC


Anonymous:2011:AIa

Anonymous. 2010 annual index. *IEEE Transactions on Visualization and Computer Graphics*, 17(1):[online only], January 2011. CODEN ITVGEA. ISSN 1077-
Anonymous:2011:RL


Anonymous:2011:VCA


Anonymous:2011:VTA


Anonymous:2011:AIb


Anonymous:2011:BC


Anonymous:2011:CRS


Anonymous:2011:FC


Anonymous:2011:IVC

REFERENCES

Anonymous:2011:IFC


Anonymous:2011:TC


Anonymous:2011:TIA


Anonymous:2012:AIIa


Anonymous:2012:RL


Anonymous:2012:AIIb


Anonymous:2012:AIIc


Anonymous:2012:CPI


Anonymous:2012:C

REFERENCES


REFERENCES

Anonymous:2012:TP
[Ano12p]

Anonymous:2012:VCC
[Ano12q]

Anonymous:2013:TAI
[Ano13a]

Anonymous:2013:TRL
[Ano13b]

Anonymous:2013:VVCa
[Ano13c]

Anonymous:2013:VVTa
[Ano13d]

Anonymous:2013:VVCb
[Ano13e]

Anonymous:2013:VVTb
[Ano13f]
REFERENCES

Anonymous:2013:AIa


Anonymous:2013:Alb


Anonymous:2013:CC


Anonymous:2013:IVGa


Anonymous:2013:IVGb


Anonymous:2013:IPCa


Anonymous:2013:IPCb


Anonymous:2013:MEC

Anonymous:2013:MPC


Anonymous:2013:PR


Anonymous:2013:R


Anonymous:2013:SC


Anonymous:2013:TC


Anonymous:2013:VCS


Anonymous:2013:VKS


Anonymous:2013:VCC


REFERENCES


Anonymous:2014:RL


Anonymous:2014:VRT


Anonymous:2014:VTAb


Anonymous:2014:VTAa


Anonymous:2014:VTAa


Anonymous:2014:EVP

[Ano14h] Anonymous. Erratum to “Video Painting Based on a

**Anonymous:2014:FC**


**Anonymous:2014:ITV**


**Anonymous:2014:IVGa**


**Anonymous:2014:MVP**

Anonymous. Message from the VIS paper chairs Guest

**Anonymous:2014:RSC**


**Anonymous:2014:TCa**


**Anonymous:2014:TCb**


**Anonymous:2014:VCCb**


**Anonymous:2014:VIP**


**Anonymous:2014:VR**


**Anonymous:2014:VSE**

Anonymous. VIS Steering and Executive Committees. *IEEE
REFERENCES

Anonymous:2014:VCCa

[Ano15a]

Anonymous:2015:IIT

[Ano15b]

Anonymous:2015:CAI

Anonymous:2015:FCa

Anonymous:2015:FCb
Anonymous. Front cover. IEEE Transactions on Visualization and Computer Graph-
REFERENCES

Anonymous:2015:ICC

Anonymous:2015:IEM

Anonymous:2015:IPW

Anonymous:2015:ISC

Anonymous:2015:MEC

Anonymous:2015:MVP

Anonymous:2015:RLb
Anonymous:2015:TC

Anonymous:2015:VR

Anonymous:2015:IIT

Anonymous:2015:VCA

Anonymous:2016:VTA

Anonymous:2016:VVRa

Anonymous:2016:VVRb

Anonymous:2016:AII
REFERENCES

Anonymous:2016:CAI


Anonymous:2016:CC


Anonymous:2016:FCa


Anonymous:2016:FCb


Anonymous:2016:IVGa


Anonymous:2016:IVGb


Anonymous:2016:IPC


Anonymous:2016:MECa

Anonymous:2016:MECb


Anonymous:2016:MVPa


Anonymous:2016:MVPb


Anonymous:2016:PR


Anonymous:2016:TCa


Anonymous:2016:TCh


Anonymous:2016:VPR


Anonymous:2016:VCC


Anonymous:2016:VIP

REFERENCES

Anonymous:2016:VSE

Anonymous:2017:RLa

Anonymous:2017:RLb

Anonymous:2017:AIa

Anonymous:2017:AIb

Anonymous:2017:ITV
Anonymous:2017:Cc


Anonymous:2017:CCa


Anonymous:2017:Ca


Anonymous:2017:Cd


Anonymous:2017:PRa


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:2019:Cb

Anonymous:2019:ITV

Anonymous:2019:IIP

Anonymous:2019:SPR

Anonymous:2019:TC
Anonymous. Table of content. *IEEE Transactions on Visual-
REFERENCES


[Arh15] Clemens Arth, Christian Pirschheim, Jonathan Ven-
REFERENCES


**Arikan:2016:MDM**


**Alsallakh:2017:PCV**


**Aliaga:2007:SGI**


**Amini:2015:IIC**


**Amini:2017:ADD**


**Alper:2011:DSL**

Basak Alper, Nathalie Riche, Gonzalo Ramos, and Mary Czerwinski. Design study of
REFERENCES


REFERENCES


REFERENCES


REFERENCES


Sara Alspaugh, Nava Zokaei, Andrea Liu, Cindy Jin, and

Ahmed:2012:HCV


Baerentzen:2005:SDC


Beyer:2013:CQG


Bladin:2018:GBC


Bachmaier:2007:RAS


Bogl:2013:VAM

Markus Bogl, Wolfgang Aigner, Peter Filzmoser, Tim Lamermarsch, Silvia Miksch, and


REFERENCES

Banks:2009:DII

Baudel:2012:CDS

Bramon:2012:MDF

Blascheck:2019:GVS

Barreira:2018:CAM

Bai:2015:UAR
Zhen Bai, A. F. Blackwell, and G. Coulouris. Using augmented reality to elicit pretend play for children with

**Bottger:2006:CLV**


**Batagelj:2011:VAL**


**Blaas:2009:SGV**


**Bhargava:2018:EML**


**Behrisch:2017:MIB**

REFERENCES


REFERENCES

Brown:2012:FMB


Borsoi:2018:PIP


Buttussi:2018:EDT


Bier:2010:PTC


Basole:2013:UIR


Bartram:2011:ECT

REFERENCES


[Bertails-Descoubes\textsuperscript{2017:GEI}]


REFERENCES


**Bovet:2018:CRS**


**Bertram:2004:GBS**


**Bargo:2014:OMM**


**Barequet:1998:RGT**


**Beecham:2017:MLE**

REFERENCES


REFERENCES


REFERENCES

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

Buerger:2009:ISS


Bartholdi:2004:MIT


Bruckner:2007:EDP


Bhattacharya:2015:LSM


Babu:2011:IVP

[BGC+11] Sabarish V. Babu, Timofey Y. Grechkin, Benjamin Chihak, Christine Ziemer, Joseph K. Kearney, James F. Cremer, and Jodie M. Plumert. An immersive virtual peer for studying social influences on child cyclists’ road-crossing behav-


**Baldacci:2017:PST**


**Bronsvoort:2011:GEI**


**Bruckner:2006:ICP**


**Biddiscombe:2007:TDP**


**Biddiscombe:2008:CTD**


REFERENCES


Baricevic:2017:UPA


Bao:2007:FRM


Brandes:2015:GEI


Bair:2006:TLS


Beyer:2007:HQM


Bernard:2018:CVI

J. Bernard, M. Hutter, M. Zeppelzauer, D. Fellner, and M. Sedlmair. Comparing visual-interactive label-

**Bezerianos:2012:PVV**


**Besançon:2017:HTT**


**Billinghurst:2013:VRT**


**Bruder:2012:RWD**


**Brehmer:2014:ODA**


**Boorboor:2019:VNS**

Saeed Boorboor, Shreeeraj JadHAV, Mala Ananth, David Talmage, Lorna Role, and Arie Kaufman. Visualization of neuronal structures in wide-field microscopy brain images. *IEEE Transactions
Bhatia:2012:FVQ

Buchmuller:2019:MVC

Bar-Joseph:2001:TMT

Bhasker:2007:RTU
2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES


REFERENCES


Bitter:2001:PDV

Burger:2008:DVE

Burger:2010:SBS

Beck:2016:VAD

Blanch:2007:BZT
Renaud Blanch and Éric Lecolinet. Browsing zoomable treemaps: Structure-aware multi-scale navigation tech-
References

Bolte:2015:SRR


Blascovich:2012:CS


Brehmer:2017:TRD


Badam:2019:EDC


Byska:2016:AEP


Brehmer:2019:VRT

Matthew Brehmer, Bongshin Lee, Petra Isenberg, and Eun Kyoung Choe. Visualizing ranges over time on mobile phones: a task-based crowdsourced evaluation. *IEEE
REFERENCES


Biswa:2017:VTV


Bentum:1996:FAG


Broll:2005:IRC


Burdea:2005:GES


Banks:2004:CCS

REFERENCES


REFERENCES


Badam:2019:VCM


Berger:2017:CCD

Matthew Berger, Katherine McDonough, and Lee M. Seversky.


Boulic:1997:CCP


Bryan:2017:TSI


Birsak:2018:DPE


Brown:2005:CBC


Bhatia:2013:CMH


Bhatia:2013:HHD


Brehmer:2016:MMM

Bonneau:1998:MAI

Bruneau:2015:GTG

Brown:2014:FWL

Bhatia:2014:NHH

Borgo:2010:EIT
Rita Borgo, Karl Proctor, Min Chen, Heike Janicke, Tavi Murray, and Ian Thornton. Evaluating the impact

[BPS+11]

**Bryden:2012:AIM**


[BPG12]

**Born:2013:VAC**


[BPM+13]

**Barbosa:2016:VIK**


[BRBF14]

**Boy:2014:PWA**

REFERENCES


Rafael Ballester-Ripoll, David Steiner, and Renato Pajarola. Multiresolution volume filtering in the tensor compressed domain. *IEEE Transactions


REFERENCES

Bartram:2011:WDS


Butkiewicz:2016:EST


Bach:2018:HMH


Baumeister:2017:CCU


Bork:2018:TEV


Bruckner:2009:BVQ

REFERENCES

Burlinson:2018:OVC

Bach:2016:TCF

Broll:2018:MISa

Bottger:2014:TDM

Bernard:2019:UDN
Bhasker:2006:ADC


Bergner:2013:PIP


Biddiscombe:2012:PCS


Bagher:2013:IRA


Baur:2010:SOL

Dominikus Baur, Frederik Seiffert, Michael Sedlmair, and Sebastian Boring. The streams of our lives: Visu-


[Buchin:2011:FML]


[Bruder:2012:TSM]


[Berkley:2004:RTF]


[Barakat:2013:ARF]


[Borst:2010:RTR]

[BTC10] Paolo Brivio, Marco Tarini, and Paolo Cignoni. Browsing


**Becker:2009:DFL** Markus Becker, Hendrik Tessendorf, and Matthias Teschner. Direct forcing for Lagrangian rigid-fluid cou-


REFERENCES

Blascheck:2019:ESD

Bitter:2007:CFF

Braune:2000:FAE

Breen:2001:LSA

Baciu:2003:IBT
Baciu:2004:IBC


Bachthaler:2008:AOT


Bachthaler:2008:CS


Byron:2008:SGG


Bae:2011:DEQ


Bae:2014:RVG

Juhee Bae and Benjamin Watson. Reinforcing visual grouping cues to communicate complex informational


REFERENCES


References

Carpendale:2019:VCA


Chittaro:2015:AKR


Carr:2006:HIS


Chen:2006:VSV


Chattopadhyay:2007:HMC


Cabral:2011:RPT


Callahan:2006:PVR


REFERENCES


REFERENCES

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


[Chan:2013:GSS]


[Cheng:2013:SFM]


[Choi:2014:VDS]


[Corsini:2012:EFS]

[CCSK19] Akhilesh Camisetty, Chaitanya Chandurkar, Maoyuan Sun, and David Koop. Enhancing Web-based analytics

[Camisetty:2019:EWB]


[Chalmers:2014:IDE] Alan Chalmers, Kurt Debat-
REFERENCES

181

**Cammarano:2007:VHD**


**Candela:2018:RVE**


**Clarkson:2009:RVS**


**Chevalier:2014:SES**


**Chang:2019:P**

REFERENCES


[CDOKRV09] Michel Crampes, Jeremy

Chao:2018:RDD


Chen:2012:MSC


Cho:2016:VVA

I. Cho, W. Dou, D. X. Wang, E. Sauda, and W. Ribarsky. VAIroma: A visual analyt-

Chen:2009:NII


Cline:2001:TDT

REFERENCES

Cole:2010:TFM

Crouser:2017:TTT

Chu:2009:GGB

Coquillart:2012:MPC


Carnealy:2013:STI

Cipriano:2007:MSA

Cipriano:2008:TSE
[CG08] Gregory Cipriano and Michael Gleicher. Text scaffolds for effective surface labeling. *IEEE Transactions on Visualiza-
REFERENCES


David Chu, Joseph L. Gabbard, Jens Grubert, and Holger Regenbrecht. Message from the ISMAR 2018 Science and Technology Program.

**Chen:2019:SBS**


**Chen:2019:ITA**


**Cai:2017:SAA**


**Ceneda:2017:CGV**


**Cao:2011:DIV**

REFERENCES


REFERENCES

Chao:2009:HCS

Correa:2011:CGE

Chen:2018:VVA

Callahan:2005:HAV

Chen:2010:ITF
Min Chen and Heike Jaenicke. An information-theoretic framework for visualization. *IEEE
REFERENCES


Caban:2007:TBF


Craciun:2005:SDW


Conner:2010:FCN


Chiosa:2011:GBM

Iurie Chiosa and Andreas Kolb. GPU-based multilevel


Choe:2005:SWM

Byoungwon Choe and Hyeong-Seok Ko. A statistical wisp model and pseudophysical approaches for interactive


REFERENCES


**Cirio:2017:YLC**


**Choo:2013:UUD**


**Chrysanthou:2007:GEI**


**Cao:2012:WTS**


**Coquillart:2013:IVR**


**Coquillart:2013:MPC**

[CLS13b] Sabine Coquillart, Joseph J. LaViola, and Dieter Schmalstieg. Message from the Pa-

**Chandak:2008:AFA**


**Cui:2011:TTB**


**Cho:2018:MSV**


**Chen:2003:RRA**


**Cao:2018:VVA**

[CLZ+18] N. Cao, C. Lin, Q. Zhu,

Chou:2002:VDC


Correa:2009:OSV


Carr:2010:SAT


Correa:2011:VHV


Chentanez:2014:MCE

Nuttapong Chentanez and Matthias Muller. Mass-conserving Eulerian liquid simulation. *IEEE Transactions on Visualization and
REFERENCES


REFERENCES


Clyne:2013:PBF


Chen:2009:COD


Cui:2014:ADI


Comport:2006:RTM


Cignoni:1997:MRV


Cignoni:2003:EMM

REFERENCES

Carr:2006:ACS

Cook:2004:ISV

Cirio:2013:KEV

Cochran:2013:IBP

Cohen-Or:2003:SVW
REFERENCES

Cohen-Or:1996:RTP


Carlson:2015:VTL

Chhugani:2005:VHF

Cipriano:2009:MSS

Carlson:2015:VTL

Chhugani:2005:VHF


REFERENCES


[CS08] Daniel S. Coming and Oliver G. Staadt. Velocity-aligned discrete oriented polytopes for dynamic collision detection.

Centin:2018:MDG


Correa:2006:FAV


Correa:2007:IDD


Correa:2006:FAV


Csebfalvi:2008:EPR


Csebfalvi:2010:EPB

REFERENCES

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

[CvW18] B. C. M. Cappers and J. J.

**Comba:2011:GEI**


**Chang:2007:LCF**


**Cashion:2012:DDS**


**Chen:2009:EBV**


**Chen:2009:PBT**

Ming-Yuen Chan, Yingcai

Chuang:2009:HPC


Cheng:2007:DAO


Cui:2006:MDA


Cheng:2007:DAO


Cui:2006:MDA

Chan:2019:VVB

Gromit Yeuk-Yin Chan, Panpan Xu, Zeng Dai, and Liu Ren. ViBr: Visualizing bipartite relations at scale with the


Jerry Chen, Ilmi Yoon, and Wes Bethel. Interactive, Internet delivery of visualization via structured pre-rendered multiresolution im-


REFERENCES

Chen:2017:EBS

Dachsbacher:2011:AVC

Dang:2016:RRA

Daniels:2010:IVF

Dang:2013:TSH

Dykes:2007:GWV

Diehl:2010:USW
Stephan Diehl, Fabian Beck, and Michael Burch. Uncover-

[DDB18]


[DBB19]


[DBD13]


[Dimara:2018:CMI]


[Demiralp:2014:LPK]


[Deines:2006:CVW]

Eduard Deines, Martin Bertram, Jan Mohring, Jevgenij Jegorovs, Frank Michel, Hans Hagen, and Gregory M. Nielson. Comparative visualization for wave-based and geometric acoustics. *IEEE
REFERENCES


Dorling:2006:WWY


Dumont:2014:AAV


Dillard:2007:CSB


Dick:2011:DVI


Dabek:2017:GBA


Dork:2008:VCV

REFERENCES

Dutta:2017:SDG

Duke:2012:VNS

Dong:2002:ABA

Duffy:2013:IIS

DiGiacomo:2007:GVT

Duriez:2006:RHR
REFERENCES

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

Dionne:2014:GBD


Demir:2014:MCC


DeFloriani:2015:ENa


DeFloriani:2015:ENc


DeFloriani:2015:MNE


DeFloriani:2015:ENb

DeFloriani:2015:ENa

Floriani:2016:MEC

L. De Floriani. A message from the Editor-in-Chief.
REFERENCES


DeFloriani:2016:EN


DeFloriani:2017:EN


DeFloriani:2017:EN


DeFloriani:2017:SJ


DeFloriani:2018:MECa


DeFloriani:2018:TBA


DeFloriani:2018:EN

Leila De Floriani. Editor’s note. IEEE Transactions on Visualization and Computer Graphics, 24(9):2470–
REFERENCES


Debernardis:2014:TRH


DiBattista:2012:GEI


Dick:2009:STF


DiBattista:2012:GEI


REFERENCES


2011. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

**Doerr:2011:CSH**


**Debelov:2013:LML**


**Dwyer:2006:DDG**


**Dwyer:2006:ICI**


**DiVerdi:2013:PPP**


**Drori:2003:FMI**


REFERENCES


[DN12] Harish Doraiswamy and Vijay Natarajan. Output-sensitive
REFERENCES


U. Dieuwald, T. Preußer, and M. Rumpf. Anisotropic diffusion in vector field visual-


[Dwyer:2013:ECT] Tim Dwyer, Nathalie Henry Riche, Kim Marriott, and

Dork:2012:PST


Drumwright:2008:FSP


Dick:2016:SFP


DeFloriani:2012:MEC


Dutta:2016:DDE


DeFloriani:2017:IIV

REFERENCES


Dinkla:2017:SVA

Doloniuss:2019:CCD

Du:2017:CVV

Dietrich:2009:ETI

Degener:2008:EVS

Dominitz:2010:TMO
Ayelet Dominitz and Allen Tannenbaum. Texture map-


Dang:2014:TSR


Dwyer:2017:GEI


Dang:2010:SGE

REFERENCES


[Dou:2013:HVE] Wenwen Dou, Li Yu, Xi-


[DZMQ16] Deng:2016:IUC


Ebert:2000:GEI

Ebert:2003:ENa

Ebert:2003:ENb

Ebert:2004:ENa

Ebert:2004:ENb

Ebert:2006:ENa
REFERENCES


REFERENCES


Ellsworth:2006:CVP


Etzmuss:2003:DPS


Ellsworth:2006:CVP

Ellsworth:2006:CVP

Eitz:2011:SBI


Eitz:2011:SBI

Ersoy:2011:SBE


Eichelbaum:2013:LIT

REFERENCES

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


Interpenetration free simulation of thin shell rigid bodies. 

Entezari:2006:EZP

Etemadpour:2015:PBE

Eilemann:2009:ESP

Ebert:2002:DET

Etiene:2012:TVI
REFERENCES

Eck:2015:PHD


Etzion:1997:CSD


Elmqvist:2010:MSF


Ehlke:2013:FGV


Edge:2018:BTA


Ertl:2007:EMN


REFERENCES

2011. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

El-Sana:1998:TSP


Ewins:1998:MML


Ewins:2007:MML

Yoon:2007:RAC

REFERENCES


REFERENCES


[FCSF17] Qiang Fu, Xiaowu Chen,


February 2018. CODEN ITVGEA. ISSN 1077-2626.


REFERENCES


[FHG+09] Laura Fritz, Markus Hadwiger, Georg Geier, Gerhard Pittino, and M. Eduard Grössler. A visual approach to efficient analysis and quantification of ductile iron and reinforced sprayed concrete.


REFERENCES


Fink:2012:ALF


Fink:2013:SAR


Fuchs:2014:ICS


Fuchs:2017:SRE


Fisher:2007:HLG


Feng:2010:MVS

REFERENCES

2010. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


REFERENCES


REFERENCES


REFERENCES

Frankel:2012:VCS


Francis:2004:VSE


Friston:2014:MLV


Fierz:2012:MLT


Frey:2014:IPV


Fujimoto:2014:GCP


comp/trans/tg/2008/04/ttg2008040820s.zip.


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


REFERENCES


REFERENCES


Grottel:2012:VED


Gautron:2007:TRC


Gyulassy:2012:CMS


Gerber:2010:VEH


[GD07] Attila Gyulassy, Mark Duchaineau.
REFERENCES


Goodwin:2016:VMV


Gerry:2017:PMS


Ganuza:2014:SEI


Gosink:2011:AMS


Glueck:2017:PCS


Guo:2016:CSU


Gueziec:1995:ETS


Gibson:2000:PDP


Glueck:2016:PPC

REFERENCES


Gansner:2013:MSM

Guo:2016:FTL

Gribble:2007:CGT

Grubert:2018:SCM

Gorla:2003:TSS

Garth:2010:FME
Christoph Garth and Kenneth I. Joy. Fast, memory-efficient cell location in unstructured grids for visual-
REFERENCES

Gomez:2017:FCG


Gandy:2015:GEI


Gunther:2014:FME


Gomez:2010:Viz


Gomez:2018:VPA


Gandy:2015:GEI


Gunther:2014:FME

REFERENCES

Gomez:2012:DSD


Gross:1995:VMS


Graham:2007:EMT


Gyulassy:2012:DFV


Ghani:2013:VAM


Gyulassy:2016:III

Grottel:2015:MPF


Gansner:2005:TFV


Gandy:2014:GEI


Garth:2008:GAI


Garon:2017:DDT


Guo:2006:MTS

Xiaohu Guo, Xin Li, Yunfan Bao, Xianfeng Gu, and Hong Qin. Meshless thin-shell simulation based on global conformal parameterization. *IEEE Transactions on Visualization and Computer Graphics*, 12
Gupta:2016:DYS


Gleicher:2013:EEE


Gleicher:2018:CVC


Gratzl:2013:LVA


Glaber:2014:CVW


Gorg:2013:CCA

Govindaraju:2006:FRC


Gramazio:2017:CCD


Gaffary:2017:AFS


Gasteiger:2012:ADV


Guo:2013:VDM


Guo:2017:UDP


REFERENCES

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


Dan Gordon. The floating column algorithm for shaded, parallel display of function surfaces without patches. *IEEE Transactions on Visual-
Govyadinov:2018:E


Grosset:2017:TTT


Grechkin:2014:DAE


Geng:2011:AHF


Gebhardt:2013:EPM

REFERENCES


Griffin:2015:CCL


Groller:1995:MVK


Grottel:2007:VVA


Groth:2006:PAV


Graaff:2017:GGS

Gabbard:2008:UEA


Gotz:2014:DVA


Greunke:2016:TIV


Gal:2007:POS

Gregorski:2004:AET


Gross:1996:ETS


Gramazio:2014:RBV


Goethem:2017:MGT


Glondu:2014:FCD


Guo:2008:MGO

Yanwen Guo, Hanqiu Sun, Qunsheng Peng, and Zhongding.

Gast:2015:OIL  

Gunter:2016:RIV  

Gortler:2018:BTU  

Gurijala:2013:CFU  

Gunter:2014:VCI  

Gunter:2017:BFT  
REFERENCES


REFERENCES


Gueziec:2001:MDP


Gattullo:2015:ETO


Guo:2009:FMM


Georgii:2006:GSP

Joachim Georgii and Rüdiger Westermann. A generic and scalable pipeline for GPU


REFERENCES

Ghosh:2018:NEI

Garcia:2013:IAS

Guo:2018:ERN

Guo:2018:RNR

Guo:2012:SMV


Helgeland:2004:VVF


Heer:2006:MSB


Heer:2006:SDP


He:2017:VCB


Harper:2018:CBD


Hadwiger:2018:SEE

REFERENCES


Hansen:2016:SCV


Hansen:2018:VCA


Hart:2016:FCP


Hullman:2011:BIV


Haker:2000:CSP


Hausner:1997:MEL


Hahmann:2003:PSI

Stefanie Hahmann and Georges-Pierre Bonneau. Polynomial

Heer:2010:DLD


Hodgson:2013:CFA


Herling:2014:HQR


Herrera:2014:SRC


Howison:2012:HPV


Hagbi:2011:SRP

Nate Hagbi, Oriel Bergig, Jihad El-Sana, and Mark Billinghurst. Shape recognition and pose estimation


House:2006:APO


Hlawatsch:2014:VAL


Huang:2005:ITR


Hou:2015:HMC


Haouchine:2015:IST


Hu:2016:SMS

REFERENCES

Hall:2007:RNP

Hullman:2011:VRF

Healey:2012:IDN

Haouchine:2015:MRA

Hwa:2005:RTO

Hullman:2013:DUS
Hazarika:2019:CFC


Healey:1999:LDG


Healey:2012:AVM


Helgeland:2006:HQI


Heer:2018:VTA

Hurter:2014:BVD


Harrison:2018:PVA


Hegarty:2010:VKA


Hermosilla:2017:PBV

[HEG+17] Pedro Hermosilla, Jorge


Heiberg:2003:TDF


Henry:2006:MDR

REFERENCES


[Hofmann:2012:GTP] Heike Hofmann, Lendie Folllett, Mahbubul Majumder,

**Hubeli:2001:MMN**


**Havel:2010:YFR**


**Hao:2016:EVT**


**He:2001:RPV**

Taosong He, Lichun Hong, Dongqing Chen, and Zhengrong Liang. Reliable path for virtual endoscopy: Ensuring complete examination of human organs. *IEEE Transactions on Visualization and
REFERENCES


Fei Hou, Ying He, Hong Qin, and Aimin Hao. Knot op-

**He:1996:CTS**


**Havre:2002:TVT**


**Hu:2017:VSD**


**Hamasaki:2018:HHM**


**Huron:2014:CVR**

[HJC14] Samuel Huron, Yvonne Jansen, and Sheelagh Carpendale. Constructing visual representations: Investigating the use of tangible tokens. *IEEE Transactions on Visualization and Computer Graph-
REFERENCES


Hamann:1999:CCH


Hamann:1999:CHB


Hong:1999:FPB


Ho:2009:IRM


Hachet:2010:GEI

REFERENCES


Heinzl:2007:SEM


Hoferlin:2012:EFF


Hullman:2018:IRG


Hedman:2017:SMC


Hauser:2013:GEI


Healey:2008:VPM

REFERENCES

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

Huang:2017:SSS


Habibi:2002:DPC


Hughes:2009:KJP


Huang:2018:AOW


Hristova:2018:TMG

REFERENCES


Hanson:1995:QFA

Hosssain:2010:EAA

Hauser:2001:TLV
Herman:2000:GVN


Heer:2008:GHV


Hecht:2010:VRF


Hadwiger:2019:TDF


Hollt:2014:OFV


Harish:2013:DPC

Pawan Harish and P. J. Narayanan. Designing perspective correct multiplanar displays. *IEEE Transactions on Visualization and
REFERENCES


Helgeland:2007:VVV


Huang:2008:GSP


Huang:2013:IST


Hua:2004:HBD


Huang:2013:IST


Huang:2013:IST


Hua:2004:HBD

REFERENCES


Hu:2007:IAR


Hou:2012:RDR


Hou:2013:ADW


Hullman:2019:PES


Hong:2006:PCA


Hou:2012:DBP

Hasegawa:2018:MUF


Hoffmann:1996:RMS


Hable:2007:CCS


Heer:2007:ATS


Hutson:2011:JAN


Hurter:2019:FST

Hincapie-Ramos:2015:SRT


Hu:2003:VSU


Hinrichs:2008:EBI


Heine:2011:DCT


Hadlak:2013:SVA


Hu:2019:CAD


Hauswiesner:2013:TCI


Hauswiesner:2013:VTT


Han:2018:ERP


Hadlak:2011:SEL


Hermann:2016:AIV


Hauswiesner:2013:TCI

REFERENCES


Hoque:2018:APP

Hlawatsch:2011:HLI

Hou:2011:MSG

Huang:2015:PVP

Hurter:2009:FSA

Hurter:2011:MAS
REFERENCES


Hu:2016:SSS


Hubbard:1995:CDI


Hernandez:2014:OUB


Hoff:2000:AHP


Hofmann:2013:CAP


Huron:2013:VS

Hlawatsch:2011:CSC


Hansen:2016:GEI


Heinrich:2009:CPC


Haroz:2012:HCL


Hough:2015:FPB


Hanel:2016:VQA


Hamann:1995:PPG

Bernd Hamann, Donghua Wu, and Robert J. Moorhead II. On particle path generation based on quadrilinear interpolation and Bernstein–Bézier polynomials. *IEEE Transactions on Visualization and
REFERENCES


Xiaowei He, Huamin Wang, and Enhua Wu. Projective peridynamics for modeling versatile elastoplastic materials. *IEEE Transactions on Visualization and Com-
REFERENCES


REFERENCES


Isaacs:2014:CCH


Isaacs:2014:FVS


Ihmsen:2014:IIS


Isenberg:2007:ITC


Itoh:2015:SPC

REFERENCES


Isenberg:2017:VST


Itoh:1995:AIP


Itoh:2015:LFC


Interrante:2014:GEI


Igarashi:2015:EN


Interrante:2012:GEI

REFERENCES

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

Im:2013:GGP

Ingram:2009:GMM

Iwai:2015:EDF

Ivson:2018:CNV

Insley:2007:RVH

Islam:2007:VSA

Ip:2011:SAN
Cheuk Yiu Ip and Amitabh Varshney. Saliency-assisted navigation of very large landscape images. *IEEE Trans-


Iwai:2013:VMP


Igouchkine:2018:MMV


Jianu:2018:DMT


Jeunet:2018:DYF


Johnsen:2014:MRV


Jauregui:2014:TPH

David Antonio Gomez Jauregui, Ferran Argelaguet, Anne-Helene Olivier, Maud Marchal, Franck Multon, and Anatole Lecuyer. Toward “pseudo-haptic avatars”: Modifying the visual animation of self-avatar can simulate the

Jeong:2009:SIS


Janicke:2009:VEC


Jones:2006:DFS


Janicke:2008:BAC


Janeh:2018:AGP


Joia:2011:LAM

[JCC+11] Paulo Joia, Danilo Coim-

Johnson:2008:IVA


Joshi:2009:CSV


Ju:2014:RPT


Jansen:2013:IMV


Johnson:2011:CIR


REFERENCES


Jang:2016:MVA

Jang:2016:MVA

Johansson:2016:EPC

Johansson:2016:EPC

Jones:2010:DWC

Jones:2010:DWC

Janicke:2016:IVP

Janicke:2016:IVP

Jackle:2016:TMP

Jackle:2016:TMP

Jeong:2007:IVV


Jakobsen:2013:IVP


[JHKH13]

Jo:2010:PDM


[JoR10]

Jiang:2014:FFS


[JJ09]

Jo:2014:LIV


[JH+14]

Jackson:2016:LUR

REFERENCES


REFERENCES

Julier:2015:GEI


Jones:2010:VFT


Javed:2010:GPM


John:2018:IVV

[Nigel W. John, Serban R. Pop, Thomas W. Day, Panagiotis D. Ritsos, and Christopher J. Headland. The implementation and validation of a virtual environment for training powered wheelchair

Jang:2015:FCC


Joy:2002:GEI


Julie:2012:CG


JNC+15


John:2018:IVV

[Nigel W. John, Serban R. Pop, Thomas W. Day, Panagiotis D. Ritsos, and Christopher J. Headland. The implementation and validation of a virtual environment for training powered wheelchair

JME10


JPD+18

[Nigel W. John, Serban R. Pop, Thomas W. Day, Panagiotis D. Ritsos, and Christopher J. Headland. The implementation and validation of a virtual environment for training powered wheelchair

**Jerman:2016:BEV**


**Joshi:2008:EVC**


**Jalba:2007:ESR**


**Jianu:2014:HDG**


**Jerding:1998:IMT**

REFERENCES


REFERENCES

Janicke:2007:MVU

Jonsson:2017:CPM

Jin:2009:CTS

Kong:2012:GOU

Kwatra:2007:TF

Janicke:2004:ITV

Klein:2018:ICV


Kahng:2018:AVE


Keefe:2008:SSC


Kasik:2012:BSW


Kaufman:1995:Eb


Kaufman:1996:Ea

Kaufman:1996:Eb

Kaufman:1996:Ec

Kaufman:1997:E

Kellner:2012:GCH

Kim:2018:RTA
REFERENCES


REFERENCES


REFERENCES

Kolesar:2017:FCC


Koren:2004:RLD


Kondo:2014:DET


Kuo:2017:GAF


Kim:2011:RRE


Kwon:2008:TCM


Kindlmann:2016:DDS


Kyprianidis:2013:SAT


Kristensson:2009:EST

Koschier:2017:ADA


Kong:2016:MPV


Kieffer:2016:HHL


Kim:2012:DET


Keim:2000:DPO


Keim:2002:IVV

Daniel A. Keim. Information visualization and visual data mining. *IEEE
Kim:2008:BSR


[KEP08]

Keefe:2009:ICM


[KERC09]

Kwon:2018:CVS


[KF+18]

Kuchenbecker:2006:ICR


[KFN06]

Krone:2017:MSM

Michael Krone, Florian Frieß, Katrin Scharnowski, Guido


REFERENCES

Krishnan:2009:TSS

Kohler:2013:SAV

Krivanek:2005:RCE

Kretschmer:2013:IPS

Kim:1998:FCD

Kang:2008:IER
Hyunmo Kang, Lise Getoor, Ben Shneiderman, Mustafa Bilgic, and Louis Licamele. Interactive entity resolution in relational data: a visual analytic tool and its evaluation. *IEEE Transactions on Visual-
Kuhne:2012:DDA


Kreylos:2001:SAC


Kehrer:2013:VVA


Kay:2016:BWL


Kong:2010:PGC


Kaehler:2012:NAV

References


REFERENCES


REFERENCES

Kim:2013:QBS


Kincaid:2010:SFA


Kitajima:2017:SPP


Klehm:2014:PLM


Kincaid:2012:PBC


Karananayaka:2018:NTT


Kronander:2012:EVE

[KJL+12] Joel Kronander, Daniel Jon-

**Koch:2014:VDV**


**KKC15**

Kerracher:2015:TTT


**KKCS98**

Kwon:1998:MER

Kniss:2002:MTF


Kato:2018:FRE


Kruger:2005:PSI


Kiyokawa:2011:GEI


Kwon:2016:VDV

Krishnamurthy:2009:PEN


Khlebnikov:2011:CRT


Kim:2017:TEM


Krueger:2008:SEA


Kol:2017:ESS


Khlebnikov:2013:NBV

REFERENCES

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

Kwon:2017:AIN


Kenwright:1996:ITD


Kim:2003:TMS


Kim:2007:FAL


Kim:2014:EAS


Kry:2014:GEI

REFERENCES

Kidwell:2008:VIP

Kang:2009:FBI

Kim:2017:ERD

Kotranza:2009:MRH

Klemm:2016:RHM

Kooima:2009:PST
DEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


Kehrer:2008:HGC

Karpenko:2010:EVD

Kurth:2018:ACD

Kang:2013:VVA

Kim:2012:BTV

Knight:1996:VUF
David Knight and Gordon Mallinson. Visualizing unstructured flow data using

**Klein:2010:SLC**


**Krajcevski:2016:CCM**


**Kehrer:2011:IVA**


**Kovacs:2010:RTC**


**Konyha:2006:IVA**


**Krishnamurthy:2011:GAM**

REFERENCES


REFERENCES


Kapadia:2014:AAD


Kim:2014:HCA


Kaufman:1995:Ea


Kale:2019:HOP


Koh:2015:VDA


Keim:2004:CFA


Kasahara:2017:JHI


Karamouzas:2012:SEL


Kersten-Oertel:2014:EDE


Kuhn:2008:ENP


Klemm:2014:IVA

[KOJL+14] Paul Klemm, Steffen Oeltze-Jafra, Kai Lawonn, Katrin Hegenscheid, Henry Volzke, and Bernhard Preim. In-
Koop:2008:VAS


King:2005:CSS


Krause:2014:IIF


Kehrer:2013:MSB


Kim:2016:RHO


Komura:2012:GEI

Taku Komura, Qunsheng Peng, George Gaciu, and Rynson W. H. Lau. Guest Editors' introduction: Special

**Kniss:2003:MVL**


**Kandel:2012:EDA**


**Krivanek:2014:TEU**


**Kahler:2015:VHF**


**Krause:2016:SIC**

Koytek:2018:MBL


Kramida:2016:RVA


Kim:2018:DTO


Kasten:2011:TDT


Kumpf:2019:VAT


Keim:2006:GES


Klosowski:2000:CPL

[KS00a] J. T. Klosowski and C. T.
REFERENCES


**Klosowski:2000:PLP**


**Klosowski:2001:ECV**


**Kreuseler:2002:FAV**


**Kim:2014:GEI**


**Kindlmann:2014:APV**

Gordon Kindlmann and Car-


REFERENCES

Kikinis:1996:DBA

Kawai:2017:ARM

Kerwin:2009:ERW

Kindlmann:2009:SVC
REFERENCES


Kretschmer:2014:AAD


Kersten:2006:EDP


Kiyokawa:2018:P


Kruger:2006:CIC


Kim:2014:RIG


Kawai:2016:DRB

REFERENCES


K. N. Kutulakos and J. R. Vallino. Calibration-free aug-

**Kalaiah:2003:MRP**


**Kim:2008:PVA**


**Kobourov:2005:NES**


**Kindlmann:2006:DTV**


**Khoury:2010:FDI**

Marc Khoury and Rephael Wenger. On the fractal dimension of isosurfaces. *IEEE Transactions on Visualization and Computer Graph-


Kopp:2019:TTS


Kwatra:2010:FSA


Koehler:2011:VVU

REFERENCES

Kindlmann:2000:SDV


Kim:2014:WSP


Kim:2001:EST


Konev:2014:RWA


Kwan:2018:PVD


Kuo:2006:NCA

[KY06] Chuan-Chu Kuo and Hong-Tzung Yau. A new combina-

**[KZL07]** Kim:2011:MEU


**[KYL11]**


**[KZW12]**


**[KZD+16]**


**[KZL07]**


**[KZW12]**


**[KZD+16]**

REFERENCES

Ko:2014:VIC


Lang:2011:MBM


Livingston:2010:GEI


Lacroute:1996:APV


Lawrence:2011:UAA


Lam:2008:FIC

[Heidi Lam. A framework of interaction costs in information visualization. *IEEE*...


[Lal13]  

[Li:2008:GOS]  

[Lafon:2013:HRD]  

[Lindow:2011:VBE]  

[Lindow:2014:LES]  
Norbert Lindow, Daniel Baum, and Hans-Christian


Lopez:2014:EAT

Lindow:2019:IVR

Laney:2006:UST

Liu:2017:UVR

Laha:2013:VMS

Laha:2014:EVS


Lou:2010:EBH  Hui Lou and Jinxiang Chai.


Lin:2014:HLR


Legg:2013:TUV


Langlotz:2016:RTR


Li:2006:SDV


Liu:2012:FVU


Livingston:2011:ETL


Lloyd:2011:HCA

[LD11b] David Lloyd and Jason Dykes. Human-centered approaches in geovisualization design: In-


REFERENCES


Lowe:2016:VAD

Li:2006:SWE

[Li:2007:VLS]

Li:2007:DDG

Lodha:2003:TPT
Suresh K. Lodha, Nikolai M. Faaland, and Jose C.

Lu:2019:ISP

Liu:2012:OTO

Levi:2013:DSI

Levi:2015:SRE

Lin:2018:RIR
REFERENCES

Luffel:2014:GCS

Ledergerber:2008:VMR

Leite:2018:EVA

Li:2009:SMU

Lentine:2011:CCF

Livesu:2012:RCS

Lawonn:2016:OFB


Liao:2012:VSC


Lee:2003:FIM


Lee:2009:MHF


Lee:2011:EVC


Li:2013:PC

Xian-Ying Li and Shi-Min Hu. Poisson coordinates. *IEEE
Liu:2014:EIL


Lee:2016:ECO


Langner:2018:VCC


**Lasserre:2012:NMM**


**Lee:2016:EOC**


**Lai:2018:SDG**


**Lam:2010:AFL**


**Lee:2006:GDL**


**Liu:2004:SRB**


Lindstrom:2006:FEC


Losasso:2006:MBS


Lin:2012:SIS


Lin:2011:ENa


Lin:2011:ENb


Lin:2011:MNE

REFERENCES

Lin:2011:MEC


Lin:2012:MECa


Lin:2012:MECb


Lin:2012:MECc


Lin:2012:MECd


Lin:2012:ENa


Lin:2012:ENb


Lin:2012:ENc


REFERENCES


**Liu:2012:SIT**

[Xiaopei Liu, Lei Jiang, Tien-Tsin Wong, and Chi-Wing Fu.](http://example.com)


**Lin:2008:MCM**

[Juncong Lin, Xiaogang Jin, Charlie Wang, and Kin-Chuen Hui.](http://example.com)


**Lai:2010:MDR**

[Yu-Kun Lai, Miao Jin, Xuexiang Xie, Ying He, Jonathan Palacios, Eugene Zhang, Shimin Hu, and Xianfeng Gu.](http://example.com)


**Liao:2012:ESP**

[Qiqi Liao, Xiaogang Jin, and Wenting Zeng.](http://example.com)


**Laine:2011:ESV**

[Samuli Laine and Tero Karras.](http://example.com)


**Lee:2009:RTD**

[Sungkil Lee, Gerard Jounghyun Kim, and Seungmoon Choi.](http://example.com)

Real-time depth-of-field rendering using anisotropically

[LKC09b]


[LKD19]


[LKH+16]


[Lefohn:2004:SNB]


[Laidlaw:2005:CVF]

Lee:2017:VDV


Lee:2015:HQL


Lynch:2018:CAB


Leimkuhler:2018:PRT


Lee:2013:STM

REFERENCES


[LBB+06] Lars Linsen, Julia Locherbach, Matthias Berth, Dorte Becher.

**Landge:2012:VNT**


**Langbehn:2017:BCS**


**Luo:2012:AFE**

Lagae:2011:IGN


Liang:2017:OQP


Lin:2014:DRN


Lee:2017:SPI


Li:2006:TPS


Lindholm:2010:SCT

REFERENCES


REFERENCES

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

Lamure:1996:SGC

Liu:2005:AUF

Lum:2002:HAS

Lam:2007:OUM
Heidi Lam, Tamara Munzner, and Robert Kincaid. Overview use in multiple visual information resolution interfaces. *IEEE Transactions on Visualization and Com-


REFERENCES

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

**Leung:2007:TB**


**LeGoc:2019:DCD**


**Liu:2012:PBM**


**Lu:2015:PDI**


**Lamberti:2018:VCA**


**Lex:2013:EVR**

Alexander Lex, Christian

Lee:2012:ASD


Lee:2012:ASD


Lin:2011:AMD


Lee:2006:TIE


Liu:2014:TSA


Li:2013:WSM

[LPS+13] Chuan Li, David Pickup,


Tong-Yee Lee, C. S. Raghavendra, and John B. Nicholas. Image composition schemes
REFERENCES


REFERENCES

Li:2007:IBS


Lee:2009:VET


Liu:2010:MMV


Lee:2013:AIP


Lee:2013:ELS


Liu:2016:AAV


Lu:2016:EEM

Y. Lu, M. Steptoe, S. Burke, H. Wang, J. Tsai, H. Davulcu,
REFERENCES


Luboschik:2008:PBL


Liu:2018:ATP


Lin:2009:GEI


Lloyd:2007:ISP


Livnat:1996:NOI


Lai:2015:DMH

[Duy-Quoc Lai, B. Sajadi, Shan Jiang, G. Meenakshisundaram, and A. Majumder. A distributed memory hierarchy and data management

**Lyu:2018:WVA**


**Liu:2017:TBA**


**Lum:2003:UMI**


**Lex:2010:CAM**


**Lu:2012:GOC**

REFERENCES


**Lehmann:2010:DCS**


**Lehmann:2011:FCP**


**Lehmann:2013:OSC**


**Lehmann:2016:OSP**


**Lehmann:2018:LAM**


**Losasso:2008:TWC**


**Lam:2018:BGT**

H. Lam, M. Tory, and T. Munzner. Bridging from

**Lowe:2005:PCS**


**Lawonn:2017:VEC**


**Li:2008:FCV**


**Liu:2012:MOP**


**Lampe:2007:TLA**


**Li:2006:RHO**

Wan-Chiu Li, Bruno Vallet, Nicolas Ray, and Bruno


[Liu:2018:PSI] Zhicheng Liu, Yang Wang, Mira Dontcheva, Matthew Hoffman, Seth Walker, and


REFERENCES


Lan:2017:ISS


Liu:2013:STE


Li:2012:RBS


Li:2016:GLG


Liang:2018:PIP

Yuan Liang, Xiting Wang, Song-Hai Zhang, Shi-Min
REFERENCES


Luo:2018:PSS


Lin:2006:IVC


Lu:2018:RTV


Luo:2012:EVE

Lee:2010:FHQ


Liu:2016:OVA


Lee:2008:TMH


Lai:2016:NIF


Liu:2016:RDC


Le:2013:MOF

REFERENCES


[MAF11] Christian Miller, Okan Arikan, and Don Fussell. Frankenrigs: Building character rigs from

**Mayerich:2008:VCM**


**Mehra:2014:SLD**


**Maltz:2005:TPS**


**Mao:1996:SNR**


**Marai:2018:ACD**


**Markovic:2016:BTB**

Dejan Marković, Fabio Antonacci, Augusto Sarti, and Stefano Tubaro. 3D beam tracing based on visibility


Magnus:2018:IDV


Meister:2018:PLO


Major:2019:GEU


Mehler:2006:SAN


Mahrous:2004:TST

REFERENCES


Ankit Mohan, Reynold Bailey, Jonathan Waite, Jack Tumblin, Cindy Grimm, and Bobby Bodenheimer. Tabletop computed lighting for practical digital photogra-


Anthony Martinet, Gery Casiez, and Laurent Grisoni. Integrality and separability of multitouch interaction techniques in 3D manipulation tasks. *IEEE Transactions on Visualization and Com-


[MCG12] Anthony Martinet, Gery Casiez, and Laurent Grisoni. Integrality and separability of multitouch interaction techniques in 3D manipulation tasks. *IEEE Transactions on Visualization and Com-


[MBC12] Ankit Mohan, Reynold Bailey, Jonathan Waite, Jack Tumblin, Cindy Grimm, and Bobby Bodenheimer. Tabletop computed lighting for practical digital photogra-


[MBC12] Ankit Mohan, Reynold Bailey, Jonathan Waite, Jack Tumblin, Cindy Grimm, and Bobby Bodenheimer. Tabletop computed lighting for practical digital photogra-


[MBC12] Ankit Mohan, Reynold Bailey, Jonathan Waite, Jack Tumblin, Cindy Grimm, and Bobby Bodenheimer. Tabletop computed lighting for practical digital photogra-


[MBC12] Ankit Mohan, Reynold Bailey, Jonathan Waite, Jack Tumblin, Cindy Grimm, and Bobby Bodenheimer. Tabletop computed lighting for practical digital photogra-


Marchesin:2010:VDS


McKeon:2009:HWI


Martin:2012:DIV

REFERENCES

Molla:2018:EMB


Micallef:2012:AEV


Merillou:2000:BPI


Michel:2007:LBA


Mao:2007:SDV


Miranda:2017:UPC

REFERENCES

791–800, ???? 2017. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.

Miranda:2019:SAM


Marchesin:2010:PPO


Mellado:2016:RSE


Meulemans:2017:SMG


Miao:2018:MVS


McDonnel:2009:TUG


Mirzargar:2011:QIV

Mahsa Mirzargar and Alireza Entezari. Quasi interpolation
REFERENCES


REFERENCES

Mueller:2009:VAI


Merry:2014:MLS


Mccurdy:2019:FEI


Mendhurwar:2018:DPS


Marsh:2006:NAS


Matkovic:2014:VAC


[MH10]  


Mackinlay:2007:SMA


Meghdadi:2013:IES


Mine:2013:KSW


Moser:2015:SES


Mindek:2018:VMP

REFERENCES

CODEN ITVGEA. ISSN 1077-2626.

McGuffin:2009:ITS

Mehta:2006:DV

McLoughlin:2013:SME

Maciejewski:2013:AAS

Mayerich:2009:HAS

Mahmudi:2013:ALS

Matvienko:2013:MED
Victor Matvienko and Jens Krüger. A metric for the evaluation of dense vector field


Meyer:2007:TAQ

Molchanov:2019:SPS

Monroe:2013:TES

Ma:2012:LLD
Mühlbacher:2018:TSA


Murcia-Lopez:2018:CVP


Muelder:2008:RGL


Merrell:2011:MSG


McGuire:2017:PT


McKenna:2014:DAF


Mora:2009:VCG

Benjamin Mora, Ross Maciejewski, Min Chen, and David S. Ebert. Visualization and computer graphics
REFERENCES


[Meyer:2010:CAM]
REFERENCES

Mueller:1998:SEA

Malik:2014:PSR

Melek:2006:VFT

McGraw:2007:SDM

Mourning:2014:IMV

Muraki:2001:ACM
Shigeru Muraki, Toshiharu Nakai, Yasuyo Kita, and Koji Tsuda. An attempt for coloring multichannel MR imag-
REFERENCES


Gustavo M. Machado, Manuel M. Oliveira, and Leandro A. F. Fernandes. A physiologically-based model for simulation of
REFERENCES


**Machado:2010:CPB**


**Merigot:2011:VBC**


**Moorhead:2003:GEI**


**Moreland:2013:SVP**


**Mühlbacher:2013:PBF**


**Munoz-Pandiella:2018:UWI**


REFERENCES

Ming:2019:RVU


Mehra:2015:WIW


Maciejewski:2010:VAA


MacEachren:2012:VSU

Alan M. MacEachren, Robert E. Roth, James O’Brien, Bonan Li, Derek Swingley, and Mark Gahegan. Visual semiotics &

**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


Merhof:2006:HVW


Mueller:1999:HQS

K. Mueller, N. Shareef, J. Huang, and R. Crawford. High-quality splatting on rectilinear grids with efficient culling of occluded


REFERENCES


REFERENCES

Matute:2018:SBS


Madsen:2016:TCS


Muhler:2010:MET


Moere:2012:EES


Mueller:2019:MNE

REFERENCES

Munzner:2009:NPM

Muraki:1995:MVR

Marchand:2016:PEA

Mansmann:2006:IED

Meuschke:2017:CVV

Muthumanickam:2019:ITV


REFERENCES


REFERENCES

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


[Natarajan:2004:STD] Vijay Natarajan and Her-


REFERENCES


REFERENCES


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


REFERENCES

http://csdl.computer.org/comp/trans/tg/2008/05/ttg2008051081s.zip.


[NMN+18] Ryohei Nagao, Keigo Matsumoto, Takuji Narumi, Tomohiro Tanikawa, and Michitaka Hirose. Ascending and descending in virtual reality: Simple and safe system using passive haptics. *IEEE Transactions on Visualiza-
REFERENCES

Nagaraj:2011:ERA

Nagaraj:2011:RAI

Nakamaru:1997:BFR

Nocaj:2016:ADB

Nieser:2012:HGP

Nguyen:2005:RTH
Ta Huy Phuc 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,

**Nguyen:2018:DDS**


**Nguyen:2015:SMD**


**Neth:2012:VDD**


**Niederer:2018:TVC**


**Nobre:2019:JTA**


**Nilsson:2014:ERP**

Niels Christian Nilsson, Stefa-

**Noser:2003:DVR**


**Narasimhan:2014:TRE**


**North:2011:GEI**


**Neuroth:2017:SVT**


**Nadeem:2017:SPB**

REFERENCES

H. Noser and D. Thalmann.

Noser:1999:RBI

Fakir S. Nooruddin and Greg Turk.

Nooruddin:2003:SRP

Rolf Nordahl, Luca Turchet, and Stefania Serafin.

Nordahl:2011:SSE


Noordmans:2000:SVR

Greg Nichols and Chris Wyman.
Interactive indirect illumination using adaptive multiresolution splatting. *IEEE Transactions on Visualization and Computer Graphics*, 16(5):729–741, September/October 2010. CODEN ITVGEA. ISSN 1077-
REFERENCES

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


Nguyen:2016:SUS


Nguyen:2006:NVM


Nie:2017:HPO


Oliveira:2011:GEI


Oliveir:2018:WVP

Anne-Helene Olivier, Julien Bruneau, Richard Kulpa, and Julien Pettre. Walking with
REFERENCES


Oeltze:2007:IVA


REFERENCES


Ogawa:2009:CDS


Obermaier:2012:MFV


Okaniwa:2012:UBS


Olano:2015:IGE


Ottley:2016:IBR


Ohlberger:1998:APO

REFERENCES


Thomas Ortner, Johannes Sorger, Harald Steinlechner, Gerd Hesina, Harald Piringer, and Eduard Groller. Vis-A-Ware: Integrating spatial and non-spatial visualization for visibility-aware urban planning. *IEEE Transactions on Visualization and Com-*
REFERENCES


Oelke:2012:VRA


Otaduy:2017:ISS


Orlosky:2015:MEC

[OTKS15] Jason Orlosky, Takumi Toyama, Kiyoshi Kiyokawa, and Daniel Sonntag. ModulAR: Eye-controlled vision augmenta-


Ohl:2015:LDA


Payan:2006:MSE


Paul:2008:CRS

[Brian Paul, Sean Ahern, Wes Bethel, Eric Brugger, Rich Cook, Jamison Daniel, Ken Lewis, Jens Owen, and Dale


REFERENCES


Pollock:2012:RVW


Paulsen:2010:MRF


Packer:2013:VAS


Palmas:2014:MVV


Pajot:2011:RRA


Patkar:2013:WPS

Saket Patkar and Parag

Poranne:2015:LSP


Pacanowski:2012:RB


Palmerius:2008:HRD


Pajarola:2004:EIR


Peck:2018:EGB

Perin:2014:RBM


Park:2018:AGU


Poco:2014:VRA


Plaisant:2008:PIB

[PDFF14] Catherine Plaisant, Jean-Daniel Fekete, and Georges

Petrovic:2007:VWB


Prabhat:2008:CSD


Paiva:2011:IST


Peck:2009:ERT


Peck:2012:DEL

Punponsanon:2017:ELV


Papadopoulos:2016:VVE


Peng:2012:MDV


Ponto:2013:PCI


Palomo:2016:VET


Patel:2008:SAI


John Plate, Thorsten Holtkamp, and Bernd Froehlich. A flexible multi-volume shader framework for arbitrarily intersecting multi-resolution


REFERENCES


REFERENCES

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

Palke:2011:ATF


Parry:2011:HES


Piumsomboon:2018:SVG


Park:2006:DSI


Park:2012:ASI


Partl:2014:CDD

Pezzotti:2017:AUS

Park:2011:EKD

Pugmire:2007:NBI
David Pugmire, Laura Monroe, Carolyn Connor Daven-


REFERENCES

\begin{itemize}
  \item Pfaffelmoser:2013:VVG

  \item Paulovich:2008:LSP

  \item Prilepov:2013:CGB

  \item Preim:2009:SVE

  \item Puppo:2009:RS

  \item Parker:1999:IRT
\end{itemize}
REFERENCES

Petronetto:2010:MHH


Pu:2011:SBR


Purchase:2012:GDA


Panozzo:2011:ACQ


Prckovska:2011:FDH


Petkov:2012:IVR

REFERENCES

Petkov:2009:ELV


Padilla:2017:EIB


Pajarola:2000:CPM


Popescu:2010:GPC

Perer:2006:BSF


Patel:2012:ACL


Pileggi:2012:SVP


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
REFERENCES


REFERENCES

Polk:2014:TVT

Palacios:2011:IVR

Pajarola:2012:GEI

Pan:2017:SRD
REFERENCES


Jonathan A. Quinn, Frank C. Langbein, Yu-Kun Lai, and

[QMV98]


[QM08]


[QM16]


[QMk+06]


[Qin1998:DCC]


[Qian:2018:RAO]


Allan Rocha, Usman Alim,


Peter Rautek, Stefan Bruckner, M. Eduard Groller, and Markus Hadwiger. ViS-lang: A system for interpreted domain-specific languages for scientific visual-
REFERENCES

Ragan:2015:EFV

Rusdorf:2007:RTI

Rautenhaus:2018:VMS

Rutten:2006:AVB
Markus Rütten and Min S. Chong. Analyzing vortex breakdown flow structures by assignment of colors to...
References


**Robb:2015:TVH**


**RCL+15**

**Reckziegel:2018:PTM**


**RCSJ18**

**Reichherzer:2018:NSM**


**RCW+18**

**Reichherzer:2018:NSM**


**Reichherzer:2018:NSM**

Ropinski:2012:UBA


Raviv:2001:IDR


Rheingans:2001:VIN


Ricks:2014:WSA


Raidou:2016:OEP


Ragan:2016:CPV

REFERENCES


Rivera-Gutierrez:2014:GPA


Reh:2013:MNM


Riehmann:2012:WKC


Ritter:2006:RTI


Rameau:2016:RTA

François Rameau, Hyowon Ha, Kyungdon Joo, Jinsoo Choi, Kibaek Park, and In So Kweon. A real-time augmented reality system to see-


REFERENCES


[RLS+19] R. C. Roberts, R. S. Laramee, G. A. Smith, P. Brookes, and


Bastian Rieck, Hubert Mara, and Heike Leitte. Multivariate data analysis us-

**Robertson:2009:EGC**


**Reach:2019:SEI**


**Roodaki:2017:SSV**


**Resch:2015:SSA**


**Raghuvanshi:2009:EAS**

REFERENCES

Robbins:1998:VSV


Rossignac:1999:ECC


Rossignac:2011:OBL


Rossenblum:2013:VRC


Roth:2013:EDT


Rosen:2012:SNP


REFERENCES

2140–2148, December 2012. CODEN ITVGEA. ISSN 1077-2626 (print), 1941-0506 (electronic), 2160-9306.


[Ren:2018:JGL] Jing Ren, Jens Schneider, Maks Ovsjanikov, and Peter Wonka. Joint graph layouts for visualizing collections of segmented meshes. *IEEE Transactions on Vi-
REFERENCES


Rungta:2018:DKI


Rubio-Sanchez:2016:CSB


Rubio-Sanchez:2014:ACI


Romero:2008:VVT


Rossl:2012:SEV


Rushmeier:1999:GEI

Rautek:2006:CV

Rushmeier:2005:GEI

Reniers:2008:CMC

Rodrigues:2018:NDP

Rathinavel:2018:EDF

Ribicic:2013:VAS
REFERENCES

Ribicic:2012:SUS


Ren:2013:APG


Ren:2018:RTH


Reis:2008:HQR


Rossl:2004:RVD


Rhee:2007:LCT

[RZP+07] Seon-Min Rhee, Remo Ziegler, Jiyoung Park, Martin Naef, Markus Gross, and Myoung-Hee Kim. Low-cost telepresence for collaborative virtual


Anthony Sherbondy, David Akers, Rachel Mackenzie, Robert Dougherty, and Brian Wandell. Exploring con-

**Sharp:2007:PBS**


**Sheehy:1996:SDM**


**Stark:2005:BPI**


**Simonetto:2016:SAB**


**Schulz:2016:EVP**


**Satava:2013:KSV**

Shen:2004:FVM

Sohn:2006:TVC

Stinson:2014:FTA

Stoppel:2017:VP1

Shi:2018:MVN

Sbert:1997:ECR
REFERENCES


REFERENCES

Sereda:2006:VBV

Su:2015:DST

Sarikaya:2019:WDW

Stevens:2017:HSE

Scharf:2011:VEI

Schmalstieg:2013:VRT
REFERENCES

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


Stahnke:2016:PPI


Slingsby:2009:CHL


Slingsby:2011:EUG


Sakhaee:2017:SDV


Schmidtke:2018:CBV


Svakhine:2009:IID


Stoppel:2019:FVI

[SEB19] Sergej Stoppel, Magnus Paulson Erga, and Stefan Bruck-


A. Schollmeyer and B. Froehlich. Efficient and anti-aliased trimming for rendering large NURBS models. *IEEE Trans-
**REFERENCES**

Sánchez:2015:STT


Sánchez:2019:TVCG


Schindler:2012:LCS


Schindler:2009:PCS


Schindler:2006:DPF


Steed:2016:AWE

[102x681] Anthony Steed, Sebastian Friston, Maria Murcía Lopez, Jason Drummond, Ye Pan, and David Swapp. An ‘in the wild’ experiment on presence and embodiment using con-

[Sedlmair:2012:RVA]

[Suma:2010:ECE]

[Sudarsky:1999:DSO]

[Shaffer:2005:MRM]

[Selver:2009:STF]

[Stitz:2016:TVM]
Holger Stitz, Samuel Gratzl, Wolfgang Aigner, and Marc Streit. ThermalPlot: Visu-

**Schmidt:2013:VVA**


**Strobelt:2019:SVV**


**Sra:2018:OPG**


**Sharko:2008:VRA**


**Suter:2011:IMT**

REFERENCES

Stitz:2019:KPB


Strobelt:2018:LTV


Samaraweera:2016:HTL


Silva:2006:GES


Schloss:2019:MCM


Seo:2000:CFA

REFERENCES


REFERENCES

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

**Selassie:2011:DEB**

**Schlemmer:2007:MIA**

**Saad:2010:EVS**

**Sun:2011:RTB**

**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


Sagrista:2017:TAI


Swan:2007:EDJ


Sunkavalli:2012:VSC


Saha:2018:FOS


Stein:2018:BIP


Sun:2014:BRM

REFERENCES

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


[SK10] Thomas Schultz and Gordon L. Kindlmann. Superquadric glyphs for symmetric second-order tensors. *IEEE Transactions on Visualization and Computer Graph-
REFERENCES


Salama:2006:HLU


Schroeder:2014:TCM


Sacha:2019:VOV


Stolper:2014:GSG


Szirmay-Kalos:2011:PIR

REFERENCES

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


Shum:2012:SMC


Seo:2014:GIG


Servin:2008:RBC


Steed:2011:GEI


Santos:2009:VSC


Shen:2004:IVT

Sicat:2019:DTB

Suma:2012:ISM

Shuai:2017:MCE

Sajadi:2009:CSM

Smit:2017:PAB
Song:2017:GIV


Schissler:2018:ACO


Sreng:2006:UVC


Servin:2011:HMW


Sun:2017:EST


Siegl:2017:FMN

REFERENCES


REFERENCES


Shivashankar:2012:PCM


Sun:2016:BSE


Sajadi:2013:UPE


Schlegel:2011:EBS


Simeone:2017:AUM


Sedlmair:2013:EGS

Satyanarayan:2017:VLG


Skarbez:2017:PER


Saraiya:2005:IBM

548


REFERENCES


[Sourin:1996:FRS]

[Sadlo:2007:EVL]

[Sherbrooke:1996:AMA]

[Streit:2008:SAF]

[Slavin:2006:TVT]
Srinivasan:2018:GIS


Stolper:2014:PVA


Song:2013:AAS


Schaefer:2013:MAH


Shivashankar:2016:FTB

REFERENCES

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

Schroder:2012:VFB

Seo:2014:OLS

Sadlo:2006:VTV

Sung:2002:STA

Su:2007:PEB

Spitz:2000:AAU
REFERENCES


[SRK+11] Arne Schmitz, Tobias Rick, Thomas Karolski, Torsten

Shih:2019:DGF


Sun:2007:FEF


Sun:2009:BRG


Stott:2011:AMM


Skraba:2016:CPC


Slusallek:1995:VAG

REFERENCES


Srinivasan:2018:OFM


Song:2019:WMD


Schollmeyer:2017:EHI


Sultanum:2019:DCB


Sakurai:2016:IVS


Scheidegger:2008:RHI

REFERENCES

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

Swan:2015:MRD


[Sarvghad:2019:EMS]


Shiravi:2012:SVS


[Szafir:2016:LCS]


Seiler:2014:DDS

Sato:1999:ARD


Selle:2009:RHR


Sacha:2016:RUA


Saket:2014:NNL


Steed:2008:GEI


Streit:2012:MDD

Marc Streit, Hans-Jörg Schulz, Alexander Lex, Dieter Schmalstieg, and Heidrun Schumann. Model-driven design for the
REFERENCES


**Sambasivan:2013:VRF**


**Sun:2007:TVB**


**Saket:2018:EIG**


**Schreiner:2006:HQE**


**Steptoe:2013:HTO**


**Sacha:2014:KGM**

Dominik Sacha, Andreas Stoffel, Florian Stoffel, Bum Chul Kwon, Geoffrey Ellis, and Daniel A. Keim. Knowledge generation model for visual

Schwab:2017:BIE


Sondag:2018:STL


Sun:2018:ISR


Stewart:1998:FHC


Said:2018:IBM


Stewart:1998:FHC

Stolte:2002:PSQ


Stolte:2003:MVU


Spillmann:2013:ASW


Soni:2008:VPF


Sarvghad:2017:VDC

REFERENCES


Shin-Ting:2012:ICR


Sundquist:2003:DLI


San-Vicente:2012:CMS


Sewall:2011:VTR


Skanberg:2016:RTM


Scheidegger:2007:QCV

REFERENCES


Smit:2010:PDL

Schneider:1998:EPC

Silver:1997:TVT

Stasko:2006:GEI

Sanftmann:2012:SN

Shadoan:2013:VAH


Conglei Shi, Yingcai Wu, Shixia Liu, Hong Zhou, and Huamin Qu. Loy-


Song:2006:AVA


Sheng:2011:SAR


Southern:2011:MSA


Szymczak:2012:RMD


Szalay:2010:VCA


Szafir:2018:MCD


Sanyal:2009:USC


Dominik Sacha, Leishi Zhang, Michael Sedlmair, John A. Lee, Jaakko Peltonen, Daniel Weiskopf, Stephen C. North,

[Szymczak:2013:HSM]


[Shen:2018:SVE]


[Tachi:2010:OPS]


[Szyn+18]

[


[Tadakuma:2005:DAM]


[Theo+07]

REFERENCES

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


REFERENCES


**Teyseyre:2009:OSV**


**Tak:2013:ESS**


**Tierny:2017:JFS**


**Tam:2013:RPC**


**Tarini:2006:AOE**


**Tikhonova:2010:VPN**


**REFERENCES**


Julien Tierny, Attila Gyulassy, Eddie Simon, and Valerio Pascucci. Loop surgery

**Tuceryan:1995:CRP**


**Taimouri:2013:VSM**


**Thagard:2011:VKA**


**Traore:2019:IOF**

Michael Traore, Christophe Hurter, and Alexandru Telea. Interactive obstruction-free

**Turk:2014:MES**


**Tobiasz:2009:LCC**


**Tsukamoto:2015:RCC**


**Takeda:2016:IRC**


**Tao:2019:ETV**

Taher:2017:IUD

Tamm:2014:HRS

Tory:2006:VTP

Turkay:2017:DPI

Tam:2017:AMH

Thom:2016:CTS

Taguchi:2009:TLT
Yuichi Taguchi, Takafumi Koike, Keita Takahashi, and


Justin Talbot, Sharon Lin, and Pat Hanrahan. An exten-
REFERENCES


  [Turkay:2012:RFG]


  [TLLH12]


  [TLM05]


  [Tan:2008:FRR]


  [Tong:2017:GVD]


  [TM04]

- Yuzuru Tanahashi and Kwan-Liu Ma. Design considerations for optimizing storyline visu-


Thomas:2014:MSD


Thomas:2011:LCS


Tuttle:2010:PSS


Tan:2017:LBS


Tierny:2012:GTS


Trimm:2012:VSH

Tang:2019:IEC


Tu:2007:VCH


Tu:2008:BFS


Talbot:2014:FEP


Tominski:2012:SBV


Teran:2005:CSS


Tory:2009:CDL

[TSD09] Melanie Tory, Colin Swindells,


REFERENCES

Tsang:2010:EVS

Turban:2017:EVE

Toet:2014:PVU

Torsney-Weir:2017:PIR

Tao:2018:SAG

Tao:2018:SFG
REFERENCES


Theisel:2005:TMT


Tao:2014:DFF


Torsney-Weir:2011:TPP


Tong:2018:MLH

[TYSN06] Shigeo Takahashi, Kenichi Yoshida, Kenji Shimada, and


REFERENCES


[Vb13] Libor Vasa and Guido Brunnett. Exploiting connectivity to improve the tangential part of geometry prediction. IEEE Transactions on Visualization and Computer Graph-


REFERENCES


**Vo:2007:SST**


**Valette:2008:GRT**


**vanderCorput:2014:EPM**


**vandenElzen:2016:RSP**


**vandenElzen:2014:DNV**


**vandenElzen:2014:MNE**

REFERENCES

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


vanGoethem:2015:ECS

vanGoethem:2014:SSS

VanderPlas:2016:SRD

Vinkler:2016:PDH

Vines:2014:VIF

vanHam:2011:MPC
vanHam:2009:SSC

vanHam:2009:MTP

vanHam:2008:POU

vanHam:2002:IVS

Viola:2018:PCA

Visell:2015:FPA
Robert van Liere and Wim de Leeuw. GraphSplatting: Visualizing graphs as continu-
 REFERENCES


vonLandesberger:2017:VSR


Vemuri:1997:FGS


Valsangkar:2019:EFC


Volino:2006:RTA

Valette:2004:WBM


Valette:2004:WBP


VanGelder:2009:UPA


Vergne:2011:ISD

vanPelt:2010:EMB


vanPelt:2010:IVV


vanPelt:2011:IVP


Vasilakis:2015:BEM


vonRadziewsky:2017:ESR


Vehlow:2013:VFO


REFERENCES


[Varshney:2012:GEI]


[vanWijk:2014:VRM]


[vanWijk:2004:GEI]

[vWN04] Jarke J. van Wijk and Wim A. A. Nuij. A model for smooth viewing and navigation of large 2D information spaces. *IEEE Transactions on Visualization and Com-
REFERENCES

vanWalsum:1996:FEI


Viegas:2007:MSV


Valdez:2018:PAE


Wilkinson:2006:HDV


Wenger:2012:VAN


Wah:2014:VCM

Benjamin Wah. On view consistency in multi-server


REFERENCES

Wood:2014:MB


Wood:2011:BDN


Weiskopf:2006:EIV


Wiley:2004:CHB


Walker:2016:TSE

References

Ward:2007:SHM

Wang:2008:EVP

Weber:2007:TLT

Wang:2009:IEV

Wang:2010:EIE

Wang:2011:FMM
Yu-Shuen Wang and Ming-Te Chi. Focus+context metro

**Wu:2013:VAD**


**Wu:2017:EGS**


**Westerteiger:2012:IRD**


**Wang:2018:ECP**


**Wang:2018:UAV**


**Wang:2019:GVI**

REFERENCES


REFERENCES


Weiss:2009:SHL


Weiss:2010:IHE


Weber:2007:TCV


Wu:2008:DEA


Wall:2018:PRD


Wood:2007:IVE


Wu:2016:SHR

[J. Wu, C. Dick, and R. Westermann. A system for high-

**Weaver:2009:CVF**


**Weaver:2010:CFV**


**Weiskopf:2003:ICT**


**Wenger:2014:EFF**


**Wong:2006:GSV**


**Wang:2018:PDA**

[WFC+18] Yuhuai Wang, Kang Feng, Xiaowei Chu, Jian Zhang, Chi-Wing Fu, Michael Sedlmair, Xiaohui Yu, and Baoquan Chen. A perception-driven approach to supervised
REFERENCES


**Weissenbock:2019:DVL**


**Wald:2005:FIR**


**Wong:2006:GGV**


**Wong:2012:SFV**


**Wald:2007:IIR**

REFERENCES


[Wang:2008:CDI]


[WGM+08]


[Wiebel:2007:CLF]


[Waltemate:2018:IAP]


[WGGR+18]

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


Westermann:2001:TPS


Wang:2013:LSV


Wiemker:2013:RST


Wang:2007:CVC


Won:2013:USI


Wattenberg:2006:DSD

REFERENCES

Wood:2019:DEL

Wu:2017:DMV

Weiler:2003:HBV

Willemsen:2006:RNM

Wenger:2004:IVR
Andreas Wenger, Daniel F. Keefe, Song Zhang, and David H. Laidlaw. Interactive volume rendering of thin

**Wang:2008:CSE**


**Weiss:2016:AMT**


**Waldner:2014:AFG**


**Wu:2011:FMP**


**Wang:2019:NAN**

Wei:2012:FVC


Wang:2017:LFA


Wang:2013:STO


Walny:2012:UPT


Wang:2012:RTP

[WLL†12] Kexiang Wang, Xin Li, Bo Li, Huanhuan Xu, and Hong Qin. Restricted trivariate polycube splines for volumetric data modeling. IEEE Transactions on Visualization and Computer Graphics, 18
Wang:2016:TFP

Wu:2015:DMS

Wu:2013:VVR

Wei:2004:LBM

Wu:2018:IIV

Wang:2019:VAF
Hong Wang, Yafeng Lu, Shade T. Shutters, Michael Steptoe, Feng Wang, Steven Landis, and Ross Maciejewski. A visual analytics framework for spatiotemporal trade

**Wang:2017:MRC**


**Wang:2008:LBR**


**Wang:2008:FVD**

Yu-Shuen Wang, Tong-Yee Lee, and Chiew-Lan Tai. Focus+context visualization with distortion minimization.

**Wang:2018:SFD**


**Wang:2018:OMM**


**Wang:2017:GEI**

Lili Wang, Ming Lin, and Enhua Wu. Guest Editors introduction: Special section on the ACM Symposium
REFERENCES

Wang:2018:SFH

Wan:2010:EMI

Wu:2014:OVA

Ward:2005:GEI

Wang:2008:SAV
Chaoli Wang and Kwan-Liu
REFERENCES


Wang:2013:SDW


Wang:2013:EBE


Wang:2016:VCA


Wang:2018:SVE


Wyman:2019:IAT


Wongsuphasawat:2016:VEA

REFERENCES


REFERENCES


REFERENCES


Wu:2016:EVA


Whited:2011:BMD


Wu:2007:ITF


Waser:2011:NRC


Wang:2007:SBB
REFERENCES

Wagner:2010:RTD

Wilde:2019:RSF

Wischgoll:2001:DVC

Woodring:2006:MVT

Woodring:2009:MTA
[WS09] Jonathan Woodring and Han-Wei Shen. Multiscale time activity data exploration via temporal clustering visualization spreadsheet. *IEEE Transactions on Visualiza-
REFERENCES


REFERENCES


REFERENCES


REFERENCES

633

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

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


smoothing for real-time rendering of mesh surfaces. IEEE Transactions on Visualization and Computer
2160-9306.


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

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

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


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

Wang:2014:DRI


Wang:2019:IBA


Wong:2003:GVA


Wan:2007:IEC


Wu:2010:OIV

REFERENCES

Wang:2011:FPV


Wu:2016:PTB


Wang:2018:RSM


Wang:2019:CIR


Wu:2014:OSA


Wang:2004:EEB

Wang:2018:TRT


Wang:2019:SAF


Wang:2017:SDR


Wu:2008:HTA


Wang:2017:CVT

[WXJD17] Yutong Wang, Xiaowei Xue, Xiaogang Jin, and Zhigang Deng. Creative virtual tree modeling through hierarchi-

Wang:2014:SOF

Wen:2017:RTE

Wu:2016:TVE

Wu:2019:FVS

Wu:2019:RTC
REFERENCES

[Wyman:2019:GEI]


[Wang:2008:IDT]

[Wu:2012:VFU]

[Wei:2015:BNF]

[Wen:2008:EUD]
REFERENCES

Wang:2015:PSM

Wei:2004:LBF

Wang:2012:MDA

Wan:2004:ISR

Wang:2013:VTJ


**Xie:2004:IRU**


**Xie:2007:EIV**


**Xin:2012:ECE**


**Xia:2018:SAT**


**Xu:2008:SPC**

Kun Xu, Yun-Tao Jia, Hongbo Fu, Shimin Hu, and Chiew-Lan Tai. Spherical piecewise constant basis functions for all-frequency precomputed radiance transfer. *IEEE Transactions on Visualization and Com-
REFERENCES


REFERENCES


Yang:2014:LOL


Yuan:2012:IGL


Yao:2012:RBL


Yen:2008:SRU


Yang:2016:ECI


Yu:2014:GIW

REFERENCES


Yoghourdjian:2016:HQU

Yang:2017:MMG

Yang:2019:ODF

Yalcin:2016:ARS

Yalcin:2018:KRE
Yu:2012:ESA


Yu:2016:CEE


Yu:2018:PTE

REFERENCES


[YL95] Boon-Lock Yeo and Bede Liu. Volume rendering of

**Yoon:2006:MLB**


**Yoon:2012:VPB**


**Yao:2008:AGI**


**Yang:2016:MAE**


**Yin:2018:SSC**


**Yu:2014:CAP**


**Yoon:2012:VPB**

REFERENCES

tronic), 2160-9306. See erratum [Ano14h].

Yeh:2012:SED


Yu:2012:RBR


Yeh:2011:TBM


Yang:2013:PVE


Yang:2017:PFS


REFERENCES


[YS03] Yücel Yemez and Francis Schmitt. Multilevel representation and transmission of real objects with progressive octree particles. *IEEE Trans-


[YSKL13] Chih-Kuo Yeh, Peng Song, Peng-Yen Lin, Chi-Wing Fu, Chao-Hung Lin, and Tong-Yee Lee. Double-sided 2.5D

**Yoo:2012:TIM**


**Yue:2019:BIV**


**Yngve:2002:RCI**


**Yan:2016:NOR**

[Dong-Ming Yan and Peter Wonka. Non-obtuse remeshing with centroidal Voronoi tessellation. *IEEE Trans-

Yu:2012:HSB


[YWSC12]

[YYWW14]


Yan:2014:USM

[YPWW10]


Yuan:2010:SMV

[YPWW13]


Yuan:2013:SPD

[YPWW15]


Yuan:2015:SMV

[YPWW13]


Yuan:2013:SPD

[YPWW15]


Yuan:2015:SMV

[YPWW13]


Yuan:2013:SPD

[YPWW15]


Yuan:2013:SPD

[YPWW15]

REFERENCES


Zheng:2011:IFC


Zhao:2006:LCP


zuBerge:2014:PBF


Zinsmaier:2012:ILD


Zhao:2017:VSE


Zordan:2014:CRD

REFERENCES


[ZCCB13] Jian Zhao, Christopher Collins, Fanny Chevalier, and Ravin Balakrishnan. Interactive exploration of implicit and explicit relations in faceted


Zhao:2011:EAT


Zhao:2014:FVA


Zhou:2019:ELS


Zirr:2018:MEF


Zhang:2009:VCA


Zhang:2009:RDI

Zhang:2003:VDT


Zhao:2013:RTV


Zheng:2008:IVD


Zeng:2014:VMP

REFERENCES

Zheng:2011:BNF

Zhang:2017:GMD

Zhang:2019:VBF

Zhang:2019:UMM

Zhu:2006:IPB

Zagorchev:2012:CAI
REFERENCES


Zhang:2014:PPE


Zhang:2007:SDH


Zhang:2014:MHA


Zhao:2018:LSM


Zhao:2007:VSH


Zhang:2012:EEC


Zou:2011:APG

[ZHGH11] Guangyu Zou, Jiaxi Hu, Xianfeng Gu, and Jing Hua. Authalic parameterization of


REFERENCES

Zhang:2006:IPB


Zhang:2007:ICD


Ziemkiewicz:2008:SIV


Ziemkiewicz:2010:LAP


Zhang:2012:SCM


Zhang:2014:SCD


Zimmer:2014:ZRF

REFERENCES


REFERENCES


Zhang:2013:LDG


Zhang:2017:QVI


Zeng:2010:SPC


Zhang:2015:VCA


Zhou:2019:VAL


Zachow:2009:VEN


Zhang:2016:UVE


Ziemkiewicz:2013:HVL


Zheng:2005:TLT


Zwicker:2002:ES


Zhang:2011:OPR


Zhao:2018:BVE


Zhao:2013:APM


Zhang:2016:GBC


Zhou:2007:TSD


Zhao:1999:ESV

REFERENCES


[ZW18] Liang Zhou and Daniel Weiskopf. Indexed-points


**Zhang:2013:FWI**


**ZWC⁺18**


**Zhang:2012:KVE**


**Zhao:2019:IIR**

Xun Zhao, Yanhong Wu, Dik Lun Lee, and Weiwei Cui. iForest: Interpreting

**Zheng:2013:PBD**


**Zhang:2019:MMA**


**Zheng:2014:VDM**


**Zhang:2017:PPB**


**Zhang:2012:DSM**

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


REFERENCES

Zhou:2008:VDM [ZZBW08]


Zgraggen:2014:PDA [ZZD14]

Zhao:2012:CMF [ZZG+12]

Zhang:2015:BRG [ZZL+15]

Zheng:2006:SST [ZZM06]

[ZZBW08] Zhou:2008:VDM
[ZZG+12] Zhao:2012:CMF
[ZZM06] Zheng:2006:SST
Zhang:2010:VML