

# A Complete Bibliography of Publications in *International Journal of Image and Graphics*

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## Title word cross-reference

**-Dimensional** [MII17]. **-means** [MA02].  
**-Norm** [BJ16]. **-Point** [FD08]. **-Systems** [DSA15].

**1** [WZW07]. **180°** [HZG07]. **2** [YCWZ09].

[DPR18, EAK<sup>+</sup>06, HU04, KVSM11, KNN10, RR05, TMSS04, YPYW04]. **3** [BYNZ05, BME07, BH10, DDSP13, CCL<sup>+</sup>07, CH08, GCO<sup>+</sup>06, HKP<sup>+</sup>19, HSEI03, HFI15, HZH15, HSCW01, HN02, HWH01, HU04, Käm08, KZCP07, KKW06, LWT02, LGS<sup>+</sup>01, MMP<sup>+</sup>14, MII17, MA12, NVN<sup>+</sup>12, NBB05, PW05, PFQ<sup>+</sup>15, PBHM03, SAA<sup>+</sup>07, SLN04, SW05, SD01, SL09, TSY<sup>+</sup>03, TCB06, TMB04, WSO<sup>+</sup>03, YPYW04, YCL13, YMA03, dSMP15]. **3D** [KA13]. **c** [MA02]. **K** [FR16]. **L** [DSA15]. **N** [FR16, FD08]. **p** [BJ16].

**7** [PK01, WCRW01].

**AAM** [SG11]. **Abdomen** [SS16]. **Abnormality** [SMR15]. **ABSolute** [Lee02]. **Accelerated** [Bha17, KA13, ZSXL08]. **Accelerating** [CH08]. **Accurate** [NFP10, TMB04]. **Achievements** [VDKP05]. **Acquired** [DC05]. **Acquiring** [LF08]. **Action** [APC17, FD06]. **Actions** [GS03]. **Active** [AAS04, DPR06, GGC18, LQDZ15, SD01, WL12, dSP16]. **Activities** [WHC13]. **Activity** [ANC17].

**Acupuncture** [HWL<sup>+</sup>06]. **Acyclic** [TA16]. **AdaBoost** [LYL12]. **Adaptation** [GLN17, TT06]. **Adaptive** [Abd17, BJ16, CFWF03, DG09, DC05, EFY<sup>+</sup>05, GMYL10, Liu02a, LLW<sup>+</sup>11, LSES07, NIT13, PAD11, PS12, SU15, SK09, WCFT03, SLBK02]. **Addition** [LPZ06]. **Addressing** [CML07]. **Adhesion** [WZF18]. **Adjacent** [Far17]. **Adult** [ZZWG06]. **Advance** [HXCW13]. **Advances** [HLB01, NPZ01]. **Aerial** [JKW<sup>+</sup>15, SMA<sup>+</sup>18, ZS06]. **Aerially** [LLLY18]. **Affected** [MMSC11]. **Affine** [CZ01]. **Agent** [FD06, PFQ<sup>+</sup>15]. **Agent-Based** [PFQ<sup>+</sup>15]. **Aging** [SWC07]. **Agriculture** [Kit18]. **Aid** [SL10]. **Aided** [SS16]. **Album** [CHZ<sup>+</sup>03]. **Alexander** [VSK18]. **Algorithm** [AM07, AK09, ASM07, BGX06, DAM08, DTJ10, GWZ07, GGC18, GP16, HHCS19, HZZ11, JKW<sup>+</sup>15, JSW12, KB10, KSG05, KGH01, LPZ06, LYP<sup>+</sup>08, LWZ17, LWCC11, MCS13, Nno19, PAD11, RR11, Ray14, SMA<sup>+</sup>18, SSS04, SPM13, SK09, VG09, VR09, WCXL05, WCB12, WCZC10, ZS12, KL02, WS02]. **Algorithm-Based** [SSS04]. **Algorithms** [FZYH08, GA01, MM17, MR06, PS01, Sar04, SM14, ZLK05]. **Allocation** [LZ09]. **Alpha** [BME07]. **Alpha-Shapes** [BME07]. **Alphabets** [UPR11]. **AM** [LZF15]. **among** [LSZ01]. **Amounts** [PGW04]. **Analysis** [ADV02, BJ13, Cha08, Dut19, FGT15, GS03, GP16, HJ13, HLB01, HMM05, HL09, LK02, LW07, LWY14, LWCC11, MR12, NPZ01, NNNS18, SL10, SPC02, TS01, VR09, WYZR18, XHB08, XTLY07, ZZ18]. **Analytic** [KZCP07]. **Analytical** [FD08, FLH<sup>+</sup>07, HZG07, Zou08]. **Analyzer** [GGC18]. **Anatomical** [MMSC11]. **Angiography** [HKP<sup>+</sup>19]. **Angle** [CYV17, BJ04]. **Angles** [MIII17]. **Animation** [AH03, JAPP10, NFP10, ZLK05]. **Anisotropic** [BME07, YL16]. **ANN** [VS13]. **Annotation** [CHZ<sup>+</sup>03, Hel18, LWY14]. **Appearance** [WXS<sup>+</sup>18, dSP16]. **Appearance-Based** [WXS<sup>+</sup>18]. **Application** [CDD05, FZYH08, Kit18, LWZ17, MH10, NVN<sup>+</sup>12, NESW06, PCV10, RA13, SMA<sup>+</sup>18, SW05, SWZM03, TS01, TTL07, UPR11, XL07, KTK02]. **Applications** [BBB<sup>+</sup>05, BG01, ES10, FGT15, LC12, Pal01, PAD11, Liu02a]. **Applied** [GRDM19, SD01, YCVdS17, dSP16, EK02]. **Approach** [AS01, BM14, BF11, CFWF03, CYZ09, DK05, DG09, DG10, Dut19, FLW<sup>+</sup>12, KZCP07, KK15, LW07, LZF15, LWT02, LG03, MHN08, MS04, Pap07, PD17, Ran12, RLKB01, SNL12, SSS04, SDK18, SG13, VG09, WHC13, WXS07, XTLY07, YPYW04, YDZ11, YZ04, ZDT05, KKB02, SL02]. **Approaches** [AU07]. **Approximately** [AK09]. **Approximating** [BYNZ05]. **Approximation** [MKS<sup>+</sup>09, RR13, SSS04]. **Arbitrary** [NFP10]. **Arc** [PDB12]. **Architecture** [DPR18, KM12, Nno17a, PFQ<sup>+</sup>15]. **Architectures** [Nno17b]. **Area** [DPR18, Ska06]. **Array** [LW06]. **Art** [THBR05]. **Arteries** [HSEI03]. **Artifacts** [ASV13]. **Artificial** [DTJ10]. **Artistic** [BSS07, LYT06, LXX<sup>+</sup>01]. **Assembly** [WGPC03]. **Assess** [Sch03]. **Assessing** [TS02]. **Assessment** [NMR11, WZPW11, YW11]. **Assistance** [TR10]. **Assistive** [KB15]. **Asymmetry** [GS03]. **Asynchronous** [GSP<sup>+</sup>08]. **Atoms** [TS01]. **Attack** [LY07b]. **Attacks** [LLS05]. **Attenuation** [FLH<sup>+</sup>07]. **attribute** [RFT04]. **Augmented** [MRBL05]. **Authentication** [FR16, KZ09, LPS15, PBC05, SSA13, SYLC05, TK03, Way01]. **Author** [Ano01, Ano02, Ano03a, Ano04a, Ano05a, Ano06, Ano07a, Ano08a, Ano09, Ano10, Ano11, Ano13, Ano14, Ano15, Ano16, Ano17, Ano18, Ano12]. **automata** [BH02]. **Automated** [MB04, MR04, TM04].

**Automatic** [AK04, AA11, BCB16, DPR06, FB02, GOO<sup>+</sup>16, HJ13, HMM05, HL13, JKW<sup>+</sup>15, Käm08, KO04, KK04, LWZ17, LWY14, MMSC11, Sar04, SLN04, STB10, SRBZ01, TG08, WF05, WZF18, YLPC08, ZS06, KKB02]. **Autonomous** [SMA<sup>+</sup>18, ZLG<sup>+</sup>07]. **AVC** [ASM07]. **Averaging** [PB16]. **axial** [TMB04].

**B** [DG10, DS12, SPK08]. **B-Spline** [DS12, SPK08]. **B-Tree** [DG10]. **Back** [BM14]. **Background** [Ref15, RCH02]. **Bandwidth** [KNN10]. **Bank** [PGW04]. **Bar** [WZW07]. **Based** [AM07, Abd17, AK09, ANC17, Al 06, AIBA14, APC17, AKE19, AL16, BCB16, BMS06, BM14, BG14, BNE18, Bin19, BF11, BSS07, CVdSdS16, CNS<sup>+</sup>15, Cha08, CHT09, CDD05, CBCT07, DM13, DLZ<sup>+</sup>11, DG09, DS19, DMMS07, DDV03, Dut19, ES10, FPHL06, Far17, FMH12, Fen01, FZYH08, FJS11, FLW<sup>+</sup>12, GLX09, GSP<sup>+</sup>08, GY06, HJ13, HKP<sup>+</sup>19, HZH15, Hel12, HHL<sup>+</sup>08, HRH<sup>+</sup>10, Hu05, HAO08, II15, JZH14, JU13, KRS17, KT07, KKKH14, LNW06, LK02, LN12, LME08, LSZ01, LPZ06, LY07b, LSSH12, LZF15, LPL14, LLZ03, LHS05, LZZ07, LLW<sup>+</sup>11, LZZ<sup>+</sup>13, LWY14, LWCC11, MMP<sup>+</sup>14, MS17, MR06, MT13, MBN13, NVN<sup>+</sup>12, NPZ01, NMM10, NBRR10, NA09, Nno17a, Nno17b, Nno19, dOGC<sup>+</sup>19, PC03a, PFQ<sup>+</sup>15, PAD11, PK14, RS16, RR11, RR13, Ray14, SK15, SVM18, Sal05, SMA<sup>+</sup>18, SNL12, SSS04, SP11, SSFC09, Sha17]. **Based** [SU15, SK09, SSA13, SR16, SL09, SBYG04, SKL15, TYM12, TYKO14, TB18, TMSS04, THW<sup>+</sup>07, TA16, TR10, TTK04, VR09, WCFT03, WF05, WCC<sup>+</sup>06, WZPW11, WHC13, WYZR18, WXS<sup>+</sup>18, XHB08, XPZ03, XLW12, YCVdS17, YL10, YW11, YL12, YW12, YZ04, YMA03, YHZ06, YL16, ZYNC06, ZSCG07, ZL12, ZZ18, ZLK05, ZZWG06, ZLY09, ZS12, ZSS08, ZDT05, ZYZH05, ZQJ09, dSMP15, BH02, EK02, Kon03, LG03, PL02, SS02, TMB04].

**Baseline** [YPYW04]. **Basis** [BG14]. **Bayesian** [ZLL<sup>+</sup>07]. **Beam** [KTO04]. **Beat** [ADV02]. **Bed** [Dut19]. **Behavior** [FD06]. **Best** [HZZ11]. **Beta** [Sch03]. **Beta-Binomial** [Sch03]. **Between** [BBG15]. **Biased** [LSKC05]. **Bidiagonal** [BR09]. **Bidiagonal-Singular** [BR09]. **Bilateral** [BBG15]. **Binarization** [CW05, LSKC05]. **Binary** [CCAS11, FMH12, GPPA04, LSKC05, NVN<sup>+</sup>12, dOGC<sup>+</sup>19, ZSCG07]. **Binary-Uncoded** [CCAS11]. **Binomial** [Sch03]. **Bio** [DTJ10, LFZL06]. **Bio-Inspired** [DTJ10]. **Bio-Native** [LFZL06]. **Biologically** [DLZ<sup>+</sup>11, SLSZ09]. **Biometric** [Kon03, Sch03, Way01]. **Biometrics** [CTI<sup>+</sup>18, HYC05]. **Biorthogonal** [PK14]. **Bit** [CCL<sup>+</sup>07, Hu05, SPM13]. **Bit-Pairing** [CCL<sup>+</sup>07]. **Bit-Rate** [Hu05]. **Bitmapped** [KH13]. **Bladder** [WLW<sup>+</sup>07]. **Blind** [BF11, DTJ10, KB15, LY07b, MR16, SL11, SPK08, TR10, RMG18]. **Block** [Abd17, ASM07, BFT11, GPPA04, LSZ01, SPM13, SM14, SSA13, KL02]. **Block-Tree** [SPM13]. **Block-Wise** [SSA13]. **Blood** [HKP<sup>+</sup>19, JH10]. **Blowfish** [KB10]. **Blurring** [LSKC05]. **Board** [AK14, YZ02]. **Bodies** [SBH08]. **Body** [LYL12, LLZ03, PFQ<sup>+</sup>15, WXS07, YCL13]. **Bones** [BCB16]. **Boolean** [dSMP15]. **Both** [FLW<sup>+</sup>12]. **Bottleneck** [DWZ<sup>+</sup>05]. **Bottom** [AS01]. **Bottom-Up** [AS01]. **Bound** [SL10]. **Boundaries** [Luk04]. **Boundary** [BZ10, BT05, DG09, GRDM19, KRS17, TS01, TTK04]. **Boundary-Based** [TTK04]. **Braille** [SU15, SDK18, UPR11]. **Brain** [BH10, SAA<sup>+</sup>07, WCZC10]. **Branch** [Yan08]. **BSP** [WS02]. **Buffer** [CC06]. **Building** [LWT02].

**Caching** [PC03b]. **calculus** [LPS02]. **Caliber** [HKP<sup>+</sup>19]. **Calibration** [TYM12]. **Camera**

[BT05, DAM08, FD08, IKY02, MBN13, TG08, WZW07, WPGF09, YMG04, HU04]. **Camera-Imaged** [BT05]. **Cameras** [JSW12]. **Cancelable** [CTI<sup>+</sup>18]. **Cancer** [WLW<sup>+</sup>07]. **Caption** [CS18]. **Capture** [CMR08, TMSS04]. **Captured** [LLY18, MBN13]. **Capturing** [BSS07, PW07, Sar04]. **Cardiac** [ANC17, FLH<sup>+</sup>07]. **Carlo** [XWB06]. **Casting** [LN12]. **Casual** [LSMC16]. **Catadioptric** [FD08]. **Categorization** [Hel12, XL07]. **Cell** [WZF18]. **Cells** [SJ12]. **CG** [MH10]. **Chains** [AL16]. **Chamfer** [Cha08]. **Channel** [SYLC05]. **Chaos** [RR11]. **Chaos-Based** [RR11]. **Character** [AK14, BNE18, CDD05, CW05, JS18, MBN13, SNL12, SU15]. **Character-Based** [ES10]. **Characterization** [AG09, MS04]. **Characters** [CC06, DK05, JLS09]. **Chebyshev** [VR09]. **Check** [PGW04]. **Chinese** [HWL<sup>+</sup>06]. **Chromatic** [DC05]. **Circles** [AK04]. **Circular** [Haw07, PDB12, KO04]. **Class** [TA16, XL07]. **Classes** [CGP03]. **Classification** [Al 06, APC17, AS01, BH10, DAW01, HL13, JS18, MNB13, NESW06, TSZ<sup>+</sup>17, TA16, SS02]. **Classifications** [TSZ<sup>+</sup>17]. **Classifier** [XLW12]. **Classifiers** [AKE19]. **Clickpaths** [KHV02]. **Clipping** [Raj19]. **Clock** [GP16]. **Closed** [MS04]. **Clothes** [MTVM01]. **Clothing** [BMH08]. **Clothoid** [LLL01]. **Clouds** [SCY12]. **Cluster** [BS04, LN12]. **Cluster-Based** [LN12]. **Clustering** [AM07, BMS06, CVdSdS16, HRH<sup>+</sup>10, KSG05, NIT13, SNL12, VH07, YDZ11, SLBK02]. **clusters** [MA02]. **Cluttered** [TTK04]. **CMA** [SL11]. **CNN** [ZZ18]. **Co** [KSG05, NA09]. **Co-Evolutionary** [KSG05]. **Co-Occurrence** [NA09]. **Code** [WZW07]. **Codebook** [AM07]. **Coded** [BMK19]. **Coders** [LSZ01]. **Codes** [SGM11]. **Codification** [CCL<sup>+</sup>07]. **Coding** [Abd17, BFT11, CCAS11, CZ01, HHL<sup>+</sup>08, KM12, PS01, SWZM03]. **Coefficient** [Bin19, YL16, YW16]. **Coherence** [HKP<sup>+</sup>19, WZZG04, WLW<sup>+</sup>07]. **Coherent** [KGM09]. **Coiflet** [DMMS07]. **Collaborative** [CGG<sup>+</sup>06, GCO<sup>+</sup>06, TSZ<sup>+</sup>17, ZLG<sup>+</sup>07]. **Collection** [JN14]. **Colonoscopy** [DPC<sup>+</sup>10]. **Color** [BS19, CNvW<sup>+</sup>14, CNS<sup>+</sup>15, FR16, HRH<sup>+</sup>10, HL13, LME08, MR16, Nno17b, PAD11, RMG18, TYKO14, TTL07, VG09, VH07, WSL02, WCY11, WZPW11, WG01, YHZ06, ABH<sup>+</sup>02]. **Color-Texture-Edge** [YHZ06]. **Colored** [Ref15]. **Colorization** [DF11]. **Combination** [CHT09]. **Combined** [JBC13, LLS05, PM17]. **Combining** [BS19, DAM08, LZW06, MMSC11, TMSS04, WYL12]. **Commodity** [Cai16, YPYW04]. **Common** [AK09, FD08]. **Communication** [HF15]. **Comparative** [CYV17]. **Comparing** [FGT15, KH13]. **Comparison** [BBG15, LSZ01, RFT04]. **Compatibility** [Far17]. **Compensation** [CA06, FLH<sup>+</sup>07, LSMC16]. **Complementary** [WC11]. **complete** [ABH<sup>+</sup>02]. **Complex** [GM16, KT07, KKW06, KMSP17, WGPC03, WSZ09]. **Component** [SL10]. **Components** [FGT15]. **Comprehensive** [SAA<sup>+</sup>07]. **Compressed** [GBG13, LHT<sup>+</sup>11, PF02, WPGF09, YCWZ09]. **Compression** [BFT11, BM11, CA06, CFC05, CCAS11, HS06, Hu05, LSZ01, LHS05, PS01, RS16, SP11, SPM13, SM14, SK09, SRM09, SR16, Won09, LPS02]. **Computation** [CHY07, Hos07, LBP05, Ska06, Ska08, ZQJ09]. **Computational** [Hel12, XWB06]. **Computed** [NNNS18]. **Computer** [HZH15, JZH14, LF15, SS16]. **Computing** [GR01, GA01]. **Concept** [DG10, RR13]. **Concurrent** [FGT15]. **Confident** [YLPC08]. **Confocal** [GCO<sup>+</sup>06]. **Congruency** [LPS15]. **Conic** [SK15]. **Constrained** [CS08, MSC13]. **Constraints**

[BJ16]. **Constructing** [WLZ10].  
**Construction** [FJ12]. **Constructive**  
 [KTK02]. **Contactless** [ANC17]. **Content**  
 [DDV03, Fen01, HLB01, LZS01, NPZ01,  
 PK01, WCFT03]. **Content-Based**  
 [DDV03, Fen01, NPZ01, WCFT03].  
**Context** [Hel12]. **Context-Based** [Hel12].  
**Contexts** [LZW06]. **Continuous**  
 [CYZ09, MA12, SNdL18]. **Contour**  
 [GGC18, GMLASVV18, LQDZ15, MR12,  
 OSN03, SD01, TS02, TTK04].  
**Contour-Point** [GMLASVV18].  
**Contourlet** [JU13]. **Contours**  
 [DPR06, WL12]. **Contrast** [MT13, TT06].  
**Control** [MM17, SSH17, SKL15, ZDT05].  
**Conversion** [OCL<sup>+</sup>01, SDK18].  
**Cooperative** [KSG05, LGS<sup>+</sup>01].  
**Coordinate** [ZYZH05]. **Coordinates**  
 [Ska06, Ska08]. **Copula** [AL16]. **Core**  
 [CWF03, TS01]. **Corner** [AIBA14].  
**Coronary** [HSEI03]. **Correcting** [TYO02].  
**Correction** [HJ13, LN12].  
**Correspondence**  
 [GMLASVV18, OSN03, KK04].  
**Cosegmentation** [ZL12]. **Courtesy**  
 [PGW04]. **Courts** [WHC13]. **Covariance**  
 [YCVdS17]. **Cover** [GA05]. **CPUs** [Cai16].  
**Crack** [YL10]. **Cracks** [HJ13]. **Creating**  
 [MH10]. **Creation** [HMM05]. **Critical**  
 [BG01]. **Crypto** [SMSK18, SYLC05].  
**Crypto-stego** [SMSK18]. **CT**  
 [GBG13, LZZ<sup>+</sup>13, LQDZ15, NVN<sup>+</sup>12,  
 TSY<sup>+</sup>03, THW<sup>+</sup>07]. **CT/MRI** [LQDZ15].  
**CTA** [CHY07]. **Cubicle** [SMR15]. **CUDA**  
 [KA13]. **Cued** [JAPP10]. **Culling**  
 [DDSP13]. **Curvature** [III15, PDB12].  
**Curve** [FLW<sup>+</sup>12, LZZ<sup>+</sup>13, RR05, RR13,  
 Sar04, ZYZH05, Zou08]. **Curve-Based**  
 [LZZ<sup>+</sup>13]. **Curved** [BYNZ05]. **Curvelet**  
 [NK11, SS16]. **Curves**  
 [DG09, DS12, SSS04, Sha17]. **Customized**  
 [CNvW<sup>+</sup>14]. **Cut** [MMSC11, ZLY09].

## D

[BYNZ05, BME07, BH10, DDSP13, CCL<sup>+</sup>07,  
 CH08, DPR18, EAK<sup>+</sup>06, GCO<sup>+</sup>06, HKP<sup>+</sup>19,  
 HSEI03, HFI15, HZH15, HSCW01, HN02,  
 HWH01, HU04, Käm08, KZCP07, KKW06,  
 KVSM11, KNN10, LWT02, LGS<sup>+</sup>01,  
 MMP<sup>+</sup>14, MA12, NVN<sup>+</sup>12, NBB05, PW05,  
 PFQ<sup>+</sup>15, PBHM03, RR05, SAA<sup>+</sup>07, SLN04,  
 SW05, SD01, SL09, TSY<sup>+</sup>03, TCB06,  
 TMSS04, TMB04, WSO<sup>+</sup>03, WZW07,  
 YPYW04, YCL13, YMA03, dSMP15].  
**D-DTCWT** [DPR18]. **Data**  
 [CBCT07, GA05, JN14, KK15, KA13, LS03,  
 LHS05, LZZ07, MMP<sup>+</sup>14, PW05, Pap07,  
 PCV10, Pou02, RLKB01, SMSK18, SDK18,  
 SPC02, TYM12, UHW02, VDKP05].  
**Data-Driven** [KK15]. **Data-Hiding**  
 [VDKP05]. **Data-Mining** [Pou02].  
**Database** [NIT13]. **Databases** [PC03a].  
**Datastructure** [KGH01]. **Daubechies**  
 [KT07]. **DCT** [LY07b]. **DCT-Based**  
 [LY07b]. **De-Hazing** [Nno19]. **Dealing**  
 [FLW<sup>+</sup>12]. **Decentralized** [ZLG<sup>+</sup>07].  
**Decision** [FD06, Lee02, MR06].  
**Decision-Level** [MR06]. **Decomposition**  
 [BR09, CHT09, GPPA04, LC12].  
**decompression** [LPS02]. **Decryption**  
 [KB10]. **Deep** [PD17]. **Defect** [HL13].  
**Definition** [HZZ11, LLW<sup>+</sup>11]. **Deformable**  
 [AAS04, CC06, DA04, GO04, KS06, NFP10,  
 PBHM03, PR04, SWR<sup>+</sup>01, TM04, YZ04,  
 ZSS08]. **Deformation**  
 [CYZ09, WLZ10, ZSAS06]. **Deforming**  
 [ZW09]. **Degraded**  
 [GMYL10, JLS09, LZZ07]. **Denoising**  
 [KT07, Kit17, Kit18, PK14, VSK18, YL16,  
 YW16]. **Dense** [Cai16, YCWZ09]. **Density**  
 [AAS04, MNB13]. **Dependent**  
 [ESS03, KKB02]. **Depth**  
 [HZH15, PSM04, YPYW04]. **Depth-Image**  
 [PSM04]. **Derivative** [Nno19].  
**Derivative-Based** [Nno19]. **Derivatives**  
 [SMR15]. **Dermo** [WSO<sup>+</sup>03].  
**Dermo-Epidermal** [WSO<sup>+</sup>03].  
**Description** [Hel12, PK01, SL02].

**Descriptor** [CVdSdS16, GMLASVV18].  
**Descriptors**  
 [AL10, NNNS18, SP11, WCRW01]. **Design**  
 [AM07, AKS<sup>+</sup>08, CA06, CGG<sup>+</sup>06, HC10,  
 LF08, LGS<sup>+</sup>01, Sar04, YCL13]. **Designing**  
 [EBA15, MTVM01]. **Detail**  
 [PZZ<sup>+</sup>01, SWC07, ZLL<sup>+</sup>07]. **Detect**  
 [MCS13]. **Detecting** [CML07, WHC13].  
**Detection**  
 [ANC17, AA11, AW05, Bin19, BME07,  
 CZW<sup>+</sup>17, CMR08, DG09, DTJ10, GGC18,  
 GRDM19, GFZ14, HHL<sup>+</sup>08, HAO08, IKY02,  
 JH10, KRS17, LYP<sup>+</sup>08, Lie01, MHN08,  
 NA09, Ref15, RCH02, SSS04, SLN04, SMR15,  
 WCXL05, WYZR18, Wei13, YL10, YL12,  
 YW12, ZZWG06, dSMP15, KO04, KK04].  
**Detector** [AIBA14, KS10]. **Detectors**  
 [JC01]. **Determination** [BBB<sup>+</sup>05].  
**Devanagari** [JS18, PD17, SNL12].  
**Developing** [DPC<sup>+</sup>10, Dut19].  
**Development** [BFT11]. **Deviation**  
 [LXX<sup>+</sup>01, RFT04]. **Device**  
 [AK15, CMR08, MBN13, Sch03].  
**Device-Based** [MBN13]. **Devices** [Nno19].  
**Diabetic** [GGC18]. **Diagnosis**  
 [SS16, WLW<sup>+</sup>07]. **Diatoms** [FB02].  
**Different** [AKE19]. **Differential**  
 [Nno17a, YL16]. **Diffuse** [MMSC11].  
**Diffusion**  
 [CDD05, GLN17, PS12, YL16, YW16, ZSS08].  
**Digit** [PM17]. **Digital**  
 [AS08, AMB16, BJ13, CBCT07, GP16,  
 HAO08, MT13, PB16, RR13, SSS04].  
**Digitally** [DC05]. **Digits** [NESW06].  
**Dimensional** [GOO<sup>+</sup>16, HSEI03, KGM09,  
 MII17, NG07, WZZG04, WXS07]. **Direct**  
 [MMP<sup>+</sup>14, PB16, TA16, UHW02]. **Directed**  
 [WCB12]. **Direction** [YW14]. **Directional**  
 [WZZG04, YW14]. **Discovery** [KHYYV02].  
**Discrete** [JBC13, LLL01, MA12].  
**Discriminant** [JS18]. **Discriminating**  
 [ATA14]. **Discriminative** [SC16].  
**Discriminatory** [SWZM03]. **Disease**  
 [MMSC11]. **Diseases** [SS16]. **Displacement**  
 [MH10]. **Display** [AKS<sup>+</sup>08, AK14, Käm08].  
**Displays** [BS04, HFI15]. **Distance**  
 [Cha08, GA01, SB15, Wei14, YW14, ZDT05].  
**Distance-Based** [ZDT05]. **Distances**  
 [MII17]. **Distant** [YL10]. **Distortion**  
 [BFT11, BT05, FLW<sup>+</sup>12, MM17, TYO02].  
**Distributed** [CGG<sup>+</sup>06, KM12].  
**Distribution** [Sch03, MA02]. **Divergence**  
 [ZZ18]. **DMesh** [PSM04]. **Document**  
 [CW05, DS19, FLW<sup>+</sup>12, KB15, MHN08].  
**Documents** [AW05, Ref15, SSGM15].  
**Domain** [AS08, BS19, CA06, CFC05, DM13,  
 GM16, LWLY08, MR16, NK11, PBC05,  
 RYLZ06, YCWZ09]. **Domains** [APC17].  
**Dominant** [DG09]. **Downsampling** [SK09].  
**Drawing** [AU07, PP01]. **Dress** [RI05b].  
**Driven** [CYZ09, KK15, TC14, WL12].  
**DTCWT** [DPR18]. **DTT** [SPM13]. **Dual**  
 [DL13b, LSMC16, LSES07]. **Dual-Planar**  
 [LSMC16]. **Due** [GS03]. **DWT**  
 [LHS05, PBC05]. **DWT-Based** [LHS05].  
**Dynamic** [CFC05, CMR08, JZH14, JBC13,  
 SKL15, THW<sup>+</sup>07, WCC<sup>+</sup>06, YKA08].  
**dynamical** [KTK02]. **Dysfunction** [GS03].  
**Earth** [Wei14]. **EBCD** [AIBA14]. **Echo**  
 [GBG13]. **Edge** [AIBA14, BBG15,  
 GRDM19, HAO08, KS10, OCL<sup>+</sup>01, WC11,  
 WCB12, YHZ06, dSMP15, BH02].  
**Edge-Based** [AIBA14]. **Edge-Directed**  
 [WCB12]. **Editing** [LTJY05, XPZ03].  
**Editorial**  
 [Ano03b, Ano03c, Ano03d, Ano03e, Ano04b,  
 Ano04c, Ben04, LLMR07, Liu02b].  
**Education** [LFZL06]. **Effect** [RI05b].  
**Effective** [Por09]. **Effectiveness** [SSN07].  
**Effects** [JN14]. **Efficient** [BYNZ05, DG10,  
 DDV03, Hos07, HON03, KNN10, KGH01,  
 MZE10, OCL<sup>+</sup>01, SRM09, SR16, VG09].  
**Eigen** [Bha17]. **Eigenspace** [RI05a, RI05b].  
**Eigenspaces** [LHW02]. **Elastic**  
 [WF05, ZYNC06]. **Element** [SW05].  
**Elements** [ADV02]. **Elimination** [MNB13].  
**ellipse** [KO04]. **Embedded**

[BFT11, GLX09, Nno19, SM14]. **Emission** [CFC05]. **Empirical** [SSN07, SMR15]. **encoded** [BH02]. **Encoding** [RS16]. **Encryption** [KB10, LY07b]. **Encryption/Decryption** [KB10]. **Endoscopic** [WLW<sup>+</sup>07]. **Endothelial** [WZF18]. **Energy** [WL12, ZS12]. **Engineering** [AU07, HMM05, LK02, LTJY05, RR13, Zha02]. **Enhanced** [FTWR17, GCO<sup>+</sup>06, Won09]. **Enhancement** [ALT03, BJ13, GMYL10, MT13, Nno17a, Nno17b, SMA<sup>+</sup>18, PL02]. **Ensemble** [GLX09]. **Entities** [AU07]. **Entropy** [BCB16]. **Enumeration** [OSN03]. **Environment** [CGG<sup>+</sup>06, GSF<sup>+</sup>03, Kan05, NMM10, Pou02, TCB06]. **Environments** [WGPC03, ZLG<sup>+</sup>07]. **Epicardial** [HSEI03]. **Epidermal** [WSO<sup>+</sup>03]. **Equation** [GLN17, WSZ09, ZSAS06]. **Equations** [Nno17a]. **Equivalence** [Haw07]. **Estimating** [Zou08]. **Estimation** [AAS04, ASV13, AL16, ASM07, CA06, DAM08, EFY<sup>+</sup>05, GS03, HKP<sup>+</sup>19, MNB13, NBB05, PDB12, YCVdS17, YPYW04, YCWZ09, ZLL<sup>+</sup>07, KL02, TMB04]. **Euclidean** [GA01]. **Evaluating** [RS16]. **Evaluation** [HYC05, Kan02, LPL14, Liu10, MMP<sup>+</sup>14, NMM10, Raj19, SVM18, SMR15]. **Evolution** [BNE18]. **Evolutionary** [KSG05, SVM18]. **Exact** [KZCP07]. **Excluding** [WSW05]. **Expectation** [WCZC10]. **Expeditious** [DSM18]. **Experimental** [BJ13]. **Experiments** [LK02]. **Exploration** [SB15]. **Exploring** [LN12]. **Exponential** [HZG07, PB16, WSZ09]. **Expression** [WXS<sup>+</sup>18, ZYNC06, dSP16]. **Extraction** [AK14, AK15, CS08, CS18, Dut19, FA06, FTWR17, FZYH08, GGC18, JBC13, KH11, KVSM11, LWZ17, LZS01, NETM10, PM17, SG13, SSGM15, SCY12, TYKO14, TG08, THW<sup>+</sup>07, TM04, WSO<sup>+</sup>03, YLPC08]. **Extractor** [ZZ18].

**Face** [AH03, Bha17, Bin19, CHZ<sup>+</sup>03, DA04, FGT15, GLX09, HWH01, HRH<sup>+</sup>10, KZ09, LWCC11, MR06, MLG<sup>+</sup>03, NMR11, PW05, Ran12, SC16, SWC07, SL09, SWZM03, XTLY07, XLW12, Yan01, ZSCG07, Liu02a, WSL02]. **Faces** [ATA14, CML07]. **Facial** [DA04, GS03, MLG<sup>+</sup>03, SL10, WXS<sup>+</sup>18, ZYNC06, dSP16]. **Factor** [CYV17]. **Factorization** [MKH16]. **Family** [CHZ<sup>+</sup>03]. **Farsi** [AKE19]. **Fashion** [YCL13]. **Fast** [AM07, Abd17, CHY07, CZ01, CC06, FLH<sup>+</sup>07, GPPA04, HON03, LC12, LLLY18, PSM04, PB16, SW05, TQJN01, TMB04, KL02]. **Faster** [LS03]. **Feature** [BNE18, Bin19, DLZ<sup>+</sup>11, DA04, FPHL06, FZYH08, HON03, KRS17, KVSM11, LPS15, MII17, MLG<sup>+</sup>03, NETM10, NBRR10, PM17, SP11, SSN07, TMSS04, YHZ06, ZZ18, SS02]. **Features** [ATA14, AKE19, Bha17, CS08, CZW<sup>+</sup>17, CMR08, FB02, GFZ14, HLB01, HL13, LZW06, SC16, SCY12, VG09, WLZ10, YKA08, dSP16]. **Feed** [SK09]. **Feed-Forward** [SK09]. **Feedback** [CW05, DDV03, KM12, LY07a, LLW<sup>+</sup>11, WCX02, WCFT03]. **Feedback-Based** [LLW<sup>+</sup>11]. **Feedback-Free** [KM12]. **Fiber** [SAA<sup>+</sup>07, YW14]. **Fidelity** [BMK19]. **Fiducials** [DAM08]. **Field** [LW06, SKL15, YCWZ09, YDZ11, YMG04]. **Field-Based** [SKL15]. **Fields** [CDD05]. **Film** [BJ13]. **Filter** [BBG15, BJ16, Cha08, CDD05, NIT13, SVM18, VSK18, YW14]. **Filter-Based** [CDD05]. **Filtering** [DL13b, LME08, NBB05, ZQJ09]. **Filters** [FMH12, Luk04]. **Finding** [ADV02, AK09, KGH01, VG09]. **Fingerprint** [ALT03, BBB<sup>+</sup>05, CMR08, DS19, GFZ14, Kon03, NA09, ZYZH05]. **Fingerprint-Based** [DS19, Kon03]. **Fingerprints** [LZF15, TK03]. **Fingerspelling** [SGM11]. **Finite** [SW05, BH02]. **Firefly** [SMA<sup>+</sup>18]. **Fisher** [JS18, XTLY07]. **Fitting** [FLW<sup>+</sup>12, WL12]. **FKNN** [KKKH14]. **Flexible** [BS04]. **Flow**

- [FLW<sup>+</sup>12, YCWZ09, ZQJ09]. **Fluctuation** [YTW11]. **Fluid** [KGM09]. **Fluid-Mix** [KGM09]. **FM** [LZF15]. **FM-Based** [LZF15]. **Footprint** [XPZ03]. **Force** [SKL15]. **Foreground** [TYKO14, YDZ11]. **Forest** [ROAK14]. **Forestation** [Dut19]. **Forests** [GFZ14]. **Form** [MS04, MB04]. **Formation** [LLMR07]. **Forms** [Haw07]. **Formulation** [Nno19]. **Forward** [SK09]. **Fourier** [LPZ06, SD01]. **Foveal** [AKS<sup>+</sup>08]. **FPGA** [Nno17a, Nno17b]. **FPGA-Based** [Nno17a, Nno17b]. **FPH** [HL09]. **Fractal** [SP11]. **Fractional** [Nno19, VSK18, YL16]. **Fragile** [SSA13]. **Fragmentation** [KH11]. **Frame** [ASV13, NBR10]. **Framework** [CBCT07, FZYH08, GSP<sup>+</sup>08, Hel18, LPL14, SPC02, Won09, ZLG<sup>+</sup>07]. **Free** [DSM18, KM12, MS04, NLC<sup>+</sup>09, MB04]. **Free-Form** [MS04, MB04]. **Freeform** [KS06]. **Fruit** [LF15]. **Frustum** [DDSP13]. **Full** [Pou02, Ref15]. **Full-Colored** [Ref15]. **Full-View** [Pou02]. **Fully** [MR04]. **Function** [BG14, CN<sub>v</sub>W<sup>+</sup>14, MKS<sup>+</sup>09, SB15, TYO02]. **Functional** [NMM10]. **Functions** [dSMP15]. **Fundamentals** [Way01]. **Fungiform** [HL09]. **Fusion** [AMR<sup>+</sup>10, AKE19, BS19, BF11, GM16, JU13, KZ09, MS17, MR06, NBR10, PW07, PCV10, XLW12]. **Fuzzy** [AM07, DDV03, GWZ07, KS10, LPS02, MS17, MA02, NESW06, NIT13, Nno17a, Pal01, Ray14, SVM18, SLBK02, SRM09, SL02, WSL02].
- Gabor** [FMH12, ZYNC06, ZSCG07]. **Gait** [Cha08, NETM10]. **Gate** [LW06]. **Gated** [FLH<sup>+</sup>07]. **Gauss** [YW14]. **Gaussian** [GMYL10, Kit17]. **GBDA** [LY07a]. **Gender** [ATA14]. **General** [CYZ09]. **Generalized** [LLZ03, XTLY07, BH02]. **Generated** [HZG07]. **Generating** [BMH08]. **Generation** [BR04, DPC<sup>+</sup>10, Käm08, KK15, LYT06, LXX<sup>+</sup>01, MSC13, SBYG04, ZW09].
- Generic** [Hel18, SMR15]. **Genetic** [MM17, Ray14, SSS04, ZLK05]. **genetically** [SLBK02]. **Geometric** [BS04, FJ12, LLS05, NVN<sup>+</sup>12, PDB12, RLKB01, SWR<sup>+</sup>01, VR09]. **Geometrical** [MS04, dSP16]. **Geometries** [Cai16]. **Geometry** [Liu10, KKB02]. **Gesture** [HZH15, JZH14, PFQ<sup>+</sup>15, RA13]. **Glance** [BBG15]. **GLCM** [KKKH14]. **GLCM-Based** [KKKH14]. **Global** [LSMC16, MS04, SC16, WL12, WYZR18, XWB06, ZL12]. **Glomerulus** [OKI<sup>+</sup>03]. **GMSC** [SB15]. **GPPBTF** [XLW12]. **GPU** [KA13, AK09, BG14, HZZ11, LN12, LSSH12]. **GPU-** [LN12]. **GPU-Accelerated** [KA13]. **GPU-Based** [AK09, BG14, LSSH12]. **Gradient** [TS01, YL10]. **Gradient-Oriented** [TS01]. **Grading** [MKS<sup>+</sup>09]. **Granularity** [CZW<sup>+</sup>17]. **Graph** [CNS<sup>+</sup>15, LME08, MMSC11, TA16]. **Graph-Based** [CNS<sup>+</sup>15, LME08]. **Graph-Cut** [MMSC11]. **Graphics** [AW05, Ano07b, BG01, CH08, LGS<sup>+</sup>01, PXL08, UHW02, YPYW04]. **Graphs** [LHW02]. **Gray** [DA10, Hos07, PB16, WZZG04, YL12, YW12]. **Gray-Level** [DA10, WZZG04, YL12, YW12]. **Gray-Scale** [PB16]. **Grayscale** [CDD05]. **Growing** [DSA15, LWZ17, KO04]. **Guest** [LLMR07]. **Guide** [FD06, Lie01]. **Guided** [AMR<sup>+</sup>10]. **Gumbel** [Kit17]. **Gurmukhi** [JLS09].
- H.264** [ASM07]. **H.264/AVC** [ASM07]. **Haar** [CZW<sup>+</sup>17]. **Haar-Like** [CZW<sup>+</sup>17]. **Hahn** [GCB<sup>+</sup>09]. **Hair** [LG03]. **Hand** [AK15, JZH14, KSG05, KZ06, RA13, SDK18]. **Hand-Held** [AK15]. **Handheld** [MBN13]. **Handling** [Pal01]. **Handwritten** [AKE19, DK05, JS18, NESW06, PGW04, PM17, Ref15, SNL12]. **Haptic** [HWL<sup>+</sup>06, ZSAS06]. **Hardware** [CH08, KKW06, Nno17a, Nno17b, YPYW04,



ZSXL08]. **Hardware-Accelerated** [ZSXL08]. **Hardware-Visibility** [KKW06]. **Harmonic** [HS06, Haw07]. **Hausdorff** [WB02]. **Hazing** [Nno19]. **HD** [LLLY18]. **HDR** [LSSH12]. **Head** [ANC17, HFI15, MR04, NVN<sup>+</sup>12]. **Heart** [SD01]. **Held** [AK15]. **Hessenberg** [SSFC09]. **Heuristic** [LQDZ15]. **Hidden** [GLX09, MA12, WS02]. **Hiding** [GA05, LHS05, TYM12, VDKP05]. **Hierarchical** [BZ10, SPM13]. **Hierarchies** [LSES07]. **High** [BM11, DPR18, FTWR17, HZZ11, MR04, SG13]. **High-Definition** [HZZ11]. **High-Quality** [BM11, MR04]. **High-Resolution** [FTWR17]. **Hindi** [SU15]. **Histogram** [HL13, SU15, YDZ11]. **Histogram-Based** [SU15]. **Histograms** [YHZ06]. **HMM** [AKE19]. **HOG** [SC16]. **Homogeneous** [Ska06, Ska08]. **Homomorphic** [Nno17a]. **Horizon** [IKY02]. **Hough** [CS08, SL02, WCXL05]. **HRCT** [MMSC11]. **Hue** [II15]. **Human** [APC17, CBCT07, FJ12, FB02, HRH<sup>+</sup>10, KK15, LYL12, MLG<sup>+</sup>03, NETM10, RI05a, SBH08, SFC08, SL10, TYM12, TMSS04, WSO<sup>+</sup>03, WXS07, Yan01, YCL13, ZLK05]. **Human-Interpretable** [FB02]. **HVS** [BBG15, RMG18]. **Hybrid** [CNvW<sup>+</sup>14, DAM08, DPR18, KBL11, KS10, Nno17b, Ran12, RR05, SVM18, SW05, SG13, VSK18]. **Hyperdimensional** [SPC02]. **Hyperplasia** [HL09].

**ICP** [YCVdS17]. **Identification** [FB02, HL09, KGM09, Sch03]. **iFACE** [HWH01]. **Illumination** [LSMC16, XWB06]. **Illustrative** [Cai16]. **Image** [Abd17, ALT03, Al 06, AK04, AMR<sup>+</sup>10, AA11, Ano07b, AL16, BH02, BM14, BBB<sup>+</sup>05, BJ16, BS19, BM11, CNS<sup>+</sup>15, CHT09, CDD05, CW05, CCAS11, DM13, DLZ<sup>+</sup>11, DA10, DS19, DMMS07, DL13a, DDV03, Dut19, FPHL06, Far17, FZYH08, GM16, GWZ07, GPPA04, GY06, GMYL10, GCO<sup>+</sup>06, HSEI03, HS06, HZZ11, HZH15, Hel12, HHL<sup>+</sup>08, HRH<sup>+</sup>10, Hu05, JKW<sup>+</sup>15, KZCP07, KB15, Kit17, KNN10, LLS05, LW07, LME08, LSZ01, LY07a, LY07b, LLTY07, LYL12, LSSH12, LLMR07, LPL14, LXX<sup>+</sup>01, LLW<sup>+</sup>11, LWY14, LQDZ15, LSKC05, MZE10, NVN<sup>+</sup>12, NIT13, Nno17b, OLHL08, PSM04, Pal01, PC03a, PCV10, Por09, PK14, PS01, PS12, RS16, Ref15, RYLZ06, SNdL18, SMA<sup>+</sup>18, SP11, SSFC09, SPM13, SM14, Sha17, SMSK18, SLSZ09, SK09, SRM09, SSA13, SL09, SL11, SBYG04, SYLC05, TB18, TYO02, TC14, TSZ<sup>+</sup>17, VG09, VS13, VSK18, WCX02]. **Image** [WCFT03, WF05, WC11, WCY11, WZPW11, WCB12, WL12, WYZR18, WXS<sup>+</sup>18, XHB08, XL07, Yan01, YL12, YMA03, YHZ06, YL16, YW16, Zha02, ZL12, ZZWG06, ZS12, ZLL<sup>+</sup>07, EK02, PL02, SS02, YZ02]. **Image-Based** [GY06, SBYG04, YMA03]. **Image-Driven** [TC14]. **Imaged** [BT05]. **Imagery** [BFT11, SG13, SWR<sup>+</sup>01]. **Images** [AK14, BMK19, BCB16, BF11, CHY07, DPR06, FR16, FGT15, GLN17, GMYL10, GBG13, GP16, HKP<sup>+</sup>19, Hel18, Hos07, HAO08, JU13, JH10, KH11, Kan05, KT07, KSG05, KH13, LZZ07, LZZ<sup>+</sup>13, LWLY08, LHT<sup>+</sup>11, MS17, MR16, MMSC11, MPR09, MKS<sup>+</sup>09, MBN13, NVN<sup>+</sup>12, NLC<sup>+</sup>09, NNNS18, NBB05, OÖ03, PBC05, PB16, PBHM03, Raj19, Sar04, SMR15, TSY<sup>+</sup>03, THW<sup>+</sup>07, TM04, WSO<sup>+</sup>03, WZZG04, WL12, Won09, WG01, WCZC10, YW12, ZLK05, ZS06, EK02]. **Imaging** [HN02, LLMR07, XHB08]. **Impaired** [PCV10]. **Impairment** [YTW11]. **Implementation** [AKS<sup>+</sup>08, CA06, GPPA04, KB10, KM12, Nno19]. **Implicit** [FG06, TYO02]. **Implicits** [BG14]. **Impostor** [CC06]. **Improve** [LBP05]. **Improved** [BM14, DDSP13, LZLF15, LZZ07, MT13, SP11, SM14, SK09, VH07, WCB12]. **Improvement** [DF11, LLW<sup>+</sup>11, SSN07]. **Improvements** [LN12]. **Improving**

[CNS<sup>+</sup>15, CW05]. **Incomplete** [GWZ07]. **Incorporating** [BS04]. **Increasing** [GP16]. **Independence** [RA13]. **Independent** [SDK18, WYL12]. **Index** [Ano01, Ano03a, Ano04a, Ano05a, Ano06, Ano07a, Ano08a, Ano09, Ano10, Ano11, Ano13, Ano14, Ano15, Ano16, Ano17, Ano18, WZPW11, Ano02, Ano12]. **Indexed** [APC17]. **Indexing** [KMSP17]. **Indoor** [TR10]. **Industry** [LK02]. **Inertial** [PCV10]. **Inexpensive** [YMA03]. **Informatics** [LLMR07]. **Information** [BR04, Dut19, EBA15, Fen01, II15, Lee02, LLMR07, PW07, SG13, VDKP05, WC11, ZSCG07]. **Information-Theoretic** [VDKP05]. **Infra** [Wei13]. **Infra-Red** [Wei13]. **Infrared** [WYZR18]. **Initialization** [GO04, LQDZ15]. **Inpainting** [CHT09, FJS11, ZS12]. **Input** [JC01, SBH08]. **Insight** [NESW06]. **Inspection** [NLC<sup>+</sup>09]. **Inspired** [BBG15, DLZ<sup>+</sup>11, DTJ10, FJ12, RMG18, SLSZ09]. **Instance** [XL07]. **Integrated** [AMB16]. **Integrating** [KZ06, SC16, TSZ<sup>+</sup>17]. **Integration** [LPS15, SSN07, TCB06]. **Intelligence** [SVM18]. **Intelligent** [FD06, HSCW01]. **Intensity** [NBB05, WF05]. **Intentionality** [FD06]. **Inter** [Abd17, SU15, YZ04]. **Inter-Frame** [YZ04]. **Inter-Image** [Abd17]. **Inter-Point** [SU15]. **Interaction** [MRBL05]. **Interactive** [CHY07, ES10, HSCW01, KA13, LGS<sup>+</sup>01, NFP10, OKI<sup>+</sup>03, TYKO14, WCC<sup>+</sup>06, WG01, YCL13]. **Interest** [APC17]. **Interface** [GSF<sup>+</sup>03, LF08, SBH08]. **Interfaces** [STB10]. **Interference** [GA05]. **Intermediate** [VG09]. **Interpixel** [WLW<sup>+</sup>07]. **Interpixel-Shifted** [WLW<sup>+</sup>07]. **Interpolation** [BT05, HS06, LC12, LLZ03, MLS<sup>+</sup>04, MR12, dOGC<sup>+</sup>19, WZZG04, WCB12]. **Interpretable** [FB02]. **interpretation** [ABH<sup>+</sup>02]. **Intersection** [SK15, Ska08]. **Intersections** [GR01]. **Intrinsic** [MLS<sup>+</sup>04]. **Introduction** [Ano05b]. **Intuitive** [SBH08]. **Invariant** [AAE11, Bha17, GO04, MZE10, VR09]. **Invariants** [FJ12, GCB<sup>+</sup>09]. **Inverse** [Haw07]. **Inversion** [HZG07]. **Investigation** [JN14]. **Invisible** [TYM12]. **involving** [KTK02]. **Iris** [FMH12, KKKH14]. **Iso** [FA06]. **Iso-Surface** [FA06]. **Isocontouring** [LNW06]. **Iteration** [DAM08]. **Iterative** [BM14, LZZ07, SG11]. **Jigsaw** [GOO<sup>+</sup>16]. **Jitter** [PC03b]. **JPEG** [ASV13]. **JPEG2000** [BMK19, BFT11, OLHL08]. **Julia** [WSZ09]. **Kalman** [Cha08]. **Kannada** [AK14, SDK18, UPR11]. **Karhunen** [NIT13]. **Kernel** [Bin19, HZG07, LY07a]. **Kernel-Coefficient-Based** [Bin19]. **Keypoint** [LYP<sup>+</sup>08]. **Kidney** [OKI<sup>+</sup>03]. **Kinect** [HFI15]. **Kinematic** [HMM05]. **KL** [ZZ18]. **KNN** [KKKH14]. **Knowledge** [MMS11, YL10]. **Labelling** [WXS07]. **Laplacian** [SWC07]. **Lapse** [SJ12]. **Large** [ESS03, KHV02, PC03b, WGPC03, YL12, ZLG<sup>+</sup>07]. **Large-Scale** [KHV02, PC03b, WGPC03]. **Largest** [AK09]. **Latency** [PC03b]. **Layer** [GRDM19]. **Layered** [OLHL08]. **LBP** [ROAK14, SMR15, XLW12]. **LCD** [HL13]. **LDA** [MR06]. **LDA-Based** [MR06]. **Leaf** [TA16]. **Learning** [ATA14, Ano07b, CCL<sup>+</sup>07, HJ13, HWL<sup>+</sup>06, JC01, LY07b, LPL14, PD17, SWC07, XL07]. **Learning-Based** [LPL14]. **Least** [TA16]. **Legendre** [Hos07]. **Legible** [Cai16]. **Length** [Ska06]. **Less** [Nno17b]. **Level** [BJ13, BH10, DA10, Hos07, MR06, MH10, MR12, PZZ<sup>+</sup>01, ROAK14, SLN04, SWR<sup>+</sup>01, WZZG04, WCC<sup>+</sup>06, WCY11, YW11, YL12, YW12, ZL12]. **Level-Set** [MR12]. **Levels** [JC01, WZF18]. **Light**

[AK15, MPR09, YMG04]. **Lighting** [MLS<sup>+</sup>04]. **Like** [CZW<sup>+</sup>17]. **Line** [AA11, AK14, BYNZ05, GR01, KVSM11, LBP05, LYL12, Raj19, WCXL05, YL12]. **Linear** [BBG15, CS08, JS18, LWCC11, WCC<sup>+</sup>06]. **Lines** [JLS09, Ref15]. **Listless** [SPM13, SM14]. **Liveness** [GFZ14]. **Local** [BJ16, FMH12, LPS15, LBP05, LZW06, MS04, SC16, SWC07, WL12, WYZR18, ZSCG07, ZL12, dSMP15]. **Localization** [DAM08, TR10]. **Locally** [DC05]. **Locating** [YW12]. **Location** [MLG<sup>+</sup>03]. **Locomotion** [KK15]. **Loève** [NIT13]. **Log** [Nno17b, SMA<sup>+</sup>18]. **Log-Based** [Nno17b]. **Logarithmic** [MZE10]. **Logic** [KS10]. **Logo** [JBC13, LZ09]. **look** [BJ04]. **Loops** [LZZ07]. **Loss** [LHS05]. **Low** [AK14, Hu05, MH10, SPM13]. **Low-Level** [MH10]. **LSB** [DA10]. **Lumigraphs** [MLS<sup>+</sup>04]. **Lung** [TSY<sup>+</sup>03]. **Lungs** [MMS11]. **LWT** [TB18].

**Machine** [Ano07b, NLC<sup>+</sup>09, TA16]. **Machines** [YKA08]. **Macrottextures** [LBP05]. **Magnetic** [LW07, PW07]. **Magnification** [ANC17]. **Mainfold** [OCL<sup>+</sup>01]. **Makeup** [Bha17]. **Malik** [YW16]. **Mammogram** [BJ13, SMR15]. **Mammograms** [MT13]. **Mammographic** [MNB13]. **Management** [CHZ<sup>+</sup>03]. **Manipulation** [HWL<sup>+</sup>06, LLW<sup>+</sup>11, SWC07, UHW02]. **Map** [KS06, TYKO14, Liu02a]. **Mapped** [MH10]. **Mapping** [HSEI03, JKW<sup>+</sup>15, KNN10, LW06, LXX<sup>+</sup>01]. **Maps** [SBYG04, ZSXL08, ABH<sup>+</sup>02]. **Marginal** [XTLY07]. **Marking** [KVSM11]. **Markov** [AL16, CL01, GLX09, MA12, Wei14, YDZ11]. **Matching** [AL10, BS19, HZZ11, LYP<sup>+</sup>08, NG07, PCV10, ZYNC06, ZYZH05, HU04, KTK02, MB04, WB02]. **Material** [KH11]. **Materials** [BT05]. **Mathematical** [KS10, Raj19]. **Matrix** [FZYH08, MKH16]. **Matrix-Based** [FZYH08]. **max** [WSL02]. **Maximization** [WCZC10]. **Maximum** [VG09]. **Mean** [DM13, HXCW13, RI05a]. **means** [MA02]. **Measure** [BCB16, DM13, GBG13, YTW11, WB02]. **Measurement** [BMK19]. **Measures** [TS02]. **Media** [DWZ<sup>+</sup>05, KBL11, NNNS18]. **Median** [Luk04]. **Medical** [BS19, DPR06, GM16, KBL11, KT07, LLMR07, LWLY08, PK14, Sha17, STB10, WF05, WL12, YZ04]. **Memory** [HON03]. **Mesh** [BZ10, BG01, LC12, LPZ06, MA12, MKH16, MH10, RFT04, TM04, ZW09]. **Meshes** [HON03, KVSM11, LLL01]. **Meshing** [PSM04]. **Metabolic** [CBCT07]. **Method** [Bin19, BM11, DDS13, CNvW<sup>+</sup>14, FPHL06, Far17, FMH12, II15, LPS15, LZZ<sup>+</sup>13, MII17, MNB13, MKS<sup>+</sup>09, NG07, PM17, TSY<sup>+</sup>03, WSZ09, WCY11, YL12, ZLY09, ZS06]. **Methodology** [AM07]. **Methods** [ALT03, BSS07, DMMS07, FGT15, KB15, RR05, Sal05, SW05, WCC<sup>+</sup>06, ZL12]. **Metric** [DLZ<sup>+</sup>11, LLTY07, LHT<sup>+</sup>11, YTW11, RFT04]. **Metrics** [CNS<sup>+</sup>15]. **MicroRNA** [KH13]. **Microscope** [MPR09]. **Microscopic** [GCO<sup>+</sup>06]. **Microscopy** [SJ12]. **Microsurgical** [WCC<sup>+</sup>06]. **Microvessel** [WZF18]. **Mimic** [SL10]. **min** [WSL02]. **min-max** [WSL02]. **Mini** [II15, SMA<sup>+</sup>18]. **Minimization** [ZS12]. **Minimizing** [PC03b]. **Mining** [KHV02, LZZ07, Pou02, RLKB01, UHW02]. **Minutiae** [BBB<sup>+</sup>05, FTWR17, LZ15, ZYZH05]. **Missing** [YL12]. **Mix** [KGM09]. **Mixed** [AW05, YW14]. **mixture** [MA02]. **Mobile** [MRBL05, Nno19]. **Mobile-Embedded** [Nno19]. **Model** [CBCT07, DLZ<sup>+</sup>11, GLX09, GGC18, Hel12, HMM05, Kan02, LG03, Sal05, SRM09, TV03, WYZR18, YL16, YW16, Zou08, dSP16, HU04, KTK02]. **Model-Based** [Sal05, LG03]. **Modeling** [CYZ09, DSA15, HKP<sup>+</sup>19, LWT02, LTJY05,

LF15, LFZL06, MS04, PZZ<sup>+</sup>01, SWR<sup>+</sup>01, TCB06, THBR05, YCL13, MB04]. **Models** [AAS04, CFWF03, DA04, ESS03, GO04, LQDZ15, MA12, NFP10, PR04, TSY<sup>+</sup>03, WGPC03, ZW09, MA02]. **Modes** [Por09]. **Modified** [ROAK14, SL11, VR09, WCXL05, WB02]. **Moments** [GCB<sup>+</sup>09, Hos07, NVN<sup>+</sup>12, VR09]. **Monitoring** [TTL07]. **Monocular** [SFC08, ZLK05]. **Monte** [XWB06]. **Morphing** [LLZ03]. **Morphologic** [LLZ03]. **Morphological** [FJS11, GPPA04, dOGC<sup>+</sup>19]. **Morphology** [KS10]. **Mosaic** [FPHL06, LYT06]. **Motion** [ADV02, ANC17, ASM07, BR04, BYNZ05, CA06, CZ01, EFY<sup>+</sup>05, GS03, Kan02, NMM10, NBB05, PW07, RCH02, SFC08, SWR<sup>+</sup>01, TG08, TMSS04, XPZ03, ZWZ08, KL02, TMB04]. **Mountain** [VH07]. **Mounted** [HF115, JSW12]. **Mover** [Wei14]. **Moving** [DSM18, JSW12, WPGF09, Wei13]. **MPEG** [BR04, LHS05, PK01, WCRW01, YCWZ09]. **MPEG-2** [YCWZ09]. **MPEG-7** [PK01, WCRW01]. **MR** [LW07, MR04, WCZC10]. **MRI** [BS19, BH10, LQDZ15]. **Mtar** [EAK<sup>+</sup>06]. **Multi** [BF11, CZW<sup>+</sup>17, FA06, LWCC11, PZZ<sup>+</sup>01, SSGM15, TA16, YPYW04, YDZ11, ZLG<sup>+</sup>07, KL02]. **Multi-Approach** [BF11]. **Multi-Baseline** [YPYW04]. **Multi-Class** [TA16]. **Multi-Granularity** [CZW<sup>+</sup>17]. **Multi-Histogram** [YDZ11]. **Multi-Linear** [LWCC11]. **Multi-Oriented** [SSGM15]. **Multi-Resolution** [PZZ<sup>+</sup>01, YPYW04]. **Multi-Scale** [FA06, KL02]. **Multi-Server** [ZLG<sup>+</sup>07]. **Multibiometric** [ROAK14]. **Multiclass** [KKKH14]. **Multiframe** [LZZ07]. **Multilevel** [ZLY09]. **Multilinear** [FGT15]. **Multimedia** [Fen01, GA05, LS03, PK01, PC03b]. **Multiorientation** [FJS11]. **Multiorientation-Based** [FJS11].

## Multiple

[AAE11, APC17, BJ04, FJ12, FR16, GFZ14, JC01, KBL11, MS17, SSN07, XL07]. **Multiple-Instance** [XL07]. **Multiplier** [Nno17b]. **Multiplier-Less** [Nno17b]. **Multiresolution** [BG01, BSS07, CA06, LTJY05, LSES07, ZW09]. **Multiscale** [LYL12, PK14, PBHM03, RS16]. **Multisensor** [MRBL05]. **Multispectral** [JU13]. **Multistruature** [FJS11]. **Multiwavelet** [LWLY08]. **Murals** [AMB16]. **Mutual** [KH13, ZSCG07].

**Native** [LFZL06]. **Natural** [DK05, Raj19, TTK04]. **Navigation** [HSCW01, Kan05, PCV10, TR10, HU04]. **Ncut** [RYLZ06]. **Needle** [HWL<sup>+</sup>06]. **Negative** [MKH16]. **Neighbor** [KGH01]. **Neighborhood** [DA10, HZZ11]. **Nested** [Pxls08]. **Network** [DWZ<sup>+</sup>05, PL02, SS02, WSL02]. **Networked** [TCB06]. **Networks** [CML07, ESS03, SBYG04]. **Neural** [CML07, NESW06, PL02, SS02, WSL02]. **neural-network-based** [PL02]. **Neuro** [SRM09]. **Neuro-Wavelet** [SRM09]. **Newly** [WCXL05]. **Newton** [WSZ09]. **Next** [DPC<sup>+</sup>10]. **Neyname** [DSA15]. **Nitric** [WZF18]. **NN** [AKE19]. **NN-Based** [AKE19]. **No** [DM13]. **No-Reference** [DM13]. **Nodule** [TSY<sup>+</sup>03]. **Noise** [ASV13, BGX06, DL13b, Far17, GA05, GLN17, HHCS19, Kit17, LWLY08, MA02]. **Noisy** [AL10, TM04]. **Non** [CH08, DG09, FLH<sup>+</sup>07, LLZ03, MKH16, RMG18, SPK08]. **Non-blind** [RMG18]. **Non-Negative** [MKH16]. **Non-Parametric** [DG09]. **Non-Rigid** [CH08, LLZ03]. **Non-Symmetric** [DG09]. **Non-Uniform** [FLH<sup>+</sup>07, SPK08]. **Nonlinear** [CNvW<sup>+</sup>14, CNS<sup>+</sup>15, GMYL10, ZQJ09]. **Nonparametric** [AL16]. **Nonphotorealistic** [Kan05]. **Nonrigid** [Sha17]. **Nonsampled** [JU13].

**Nonuniform** [BM11]. **Norm** [BJ16]. **Normalized** [ZLY09]. **Novel** [GM16, GGC18, LYP<sup>+</sup>08, LHT<sup>+</sup>11, LWCC11, MHN08, MSC13, NETM10, SDK18, SB15, WCY11]. **Nu** [SSH17]. **Nuclear** [HSEI03]. **Numerically** [HZG07].

### **Object**

[DM13, DAW01, DG10, DSM18, JSW12, MII17, MA12, NK11, NBRR10, SB15, TYKO14, TSY<sup>+</sup>03, TTL07, TG08, WPGF09, Wei13, ZSS08, ZDT05, WS02, WB02]. **object-oriented** [WS02]. **Objective** [GWZ07]. **Objects** [DTJ10, FG06, OCL<sup>+</sup>01, SLSZ09, KO04, MB04]. **Observation** [OKI<sup>+</sup>03]. **Obstacles** [DTJ10, IKY02, TMB04]. **Occluded** [DG10, WSW05]. **Occlusion** [II15]. **Occlusions** [LZZ<sup>+</sup>13]. **Occurrence** [NA09]. **Octree** [WCC<sup>+</sup>06]. **Octree-Based** [WCC<sup>+</sup>06]. **Octrees** [DDSP13]. **on-board** [YZ02]. **On-Line** [LYL12]. **on-road** [HU04]. **Online** [JAPP10, LZW06, SNL12, TMSS04]. **onto** [HSEI03]. **Opacity** [LN12]. **Open** [LLL01, VDKP05]. **Operations** [GPPA04]. **Operator** [DL13b, DL13a]. **Operators** [KVSM11, dSMP15]. **Optical** [CMR08, HKP<sup>+</sup>19, HC10, PW07, WLW<sup>+</sup>07, YCWZ09, ZQJ09]. **Optimal** [ASM07, BFT11, DDV03, LZ09, Luk04, SMA<sup>+</sup>18, ZW09]. **Optimality** [MM17]. **Optimization** [CCL<sup>+</sup>07, GWZ07, HMM05, PCV10, WGPC03]. **Optimized** [DPR18, LWZ17]. **Order** [YL16]. **Ordered** [BG01]. **Ordering** [LME08]. **Organization** [DDV03]. **organizing** [Liu02a]. **Orientation** [CVdSdS16, CS08]. **Oriented** [SSGM15, TS01, WS02]. **Orthogonal** [AL16, DAM08]. **Out-of-Core** [CWF03]. **Outdoor** [Nak01, TQJN01, TR10]. **Outdoor/Indoor** [TR10]. **Outline** [AL10, Sar04]. **Over-Sampled** [LN12]. **Overcoming** [RI05b]. **Overlap** [VG09]. **Overlapped** [ZS06]. **Overlapping** [JLS09].

**Overview** [Nak01]. **Ownership** [RR11]. **Oxide** [WZF18].

**Packet** [BR09]. **Page** [AS01]. **Paintings** [DC05]. **Pairing** [CCL<sup>+</sup>07]. **Pairwise** [AL16, JS18]. **Palm** [LPS15]. **Palmprint** [FTWR17, KZ09, SRBZ01]. **Palmprints** [KSG05]. **Panchromatic** [JU13]. **Panels** [HL13]. **Papillae** [HL09]. **Parallel** [Cai16, PXL08, ZSXL08]. **Parallel-Split** [ZSXL08]. **Paralysis** [GS03]. **Parameterization** [BZ10, LZZ<sup>+</sup>13, TS01]. **Parameterized** [SBH08, HU04]. **Parameters** [DS12, Zou08]. **Parametric** [DG09]. **Parenchymal** [MMSC11]. **Partial** [Nno17a]. **Partially** [DG10, KB10, ZS06]. **Particle** [NBB05]. **Particles** [NBRR10, SKL15]. **Particles-Based** [NBRR10]. **Partitioning** [SM14]. **Pass** [CWF03]. **Patch** [BMS06, WYZR18]. **Path** [BYNZ05]. **Paths** [LSES07, SKL15]. **Pattern** [CL01, Ray14, SMR15, TYM12, ZS06]. **Patterns** [FMH12, PF02, ZSCG07]. **PC** [BS04]. **PC-Cluster** [BS04]. **PCA** [MR06]. **PDE** [SWR<sup>+</sup>01]. **Peak** [VG09]. **PECSI** [Won09]. **Pedestrian** [CZW<sup>+</sup>17, TR10]. **Peeling** [MR04]. **People** [TTL07]. **Pepper** [HHCS19]. **Perception** [LK02, MRBL05, TYM12]. **Perception-Based** [LK02]. **Perceptual** [GSF<sup>+</sup>03]. **Perceptually** [EFY<sup>+</sup>05, Won09]. **Perceptually-Enhanced** [Won09]. **Performance** [HYC05, Luk04, Raj19, Sch03, TS02]. **Performing** [BBG15]. **Perona** [YW16]. **Persian** [DSA15, PM17]. **Personalized** [AH03]. **Perspective** [FD08, FLW<sup>+</sup>12]. **Perspective-** [FD08]. **PET** [BS19, KZCP07]. **PET-MRI** [BS19]. **Phase** [LPS15]. **Phones** [WZW07]. **Photo** [CHZ<sup>+</sup>03, Nak01]. **Photo-Realism** [Nak01]. **Photography** [SMA<sup>+</sup>18]. **Pictures** [ADV02]. **Piecewise** [DS12]. **Pipelined**

[KB10]. **Pipelines** [PXLS08]. **Pixel** [DA10, SSA13]. **Pixel-Wise** [SSA13]. **Pixels** [Far17]. **Planar** [FD08, LSMC16]. **Plane** [AK09]. **Planning** [WGPC03]. **Plant** [THBR05, TA16]. **Platform** [HZZ11]. **Platforms** [JSW12]. **Plenoptic** [BYNZ05]. **Plot** [ES10]. **Plot/Character** [ES10]. **Plot/Character-Based** [ES10]. **Point** [AK09, FD08, GSP+08, GMLASVV18, Liu10, SU15, SCY12, TV03]. **Point-Based** [GSP+08]. **Point-Sampled** [Liu10]. **Points** [APC17, BME07, DG09, KS06, MII17, OÖ03]. **Poisson** [ZSAS06]. **Polygon** [BZ10, MCS13, Raj19]. **Polygonal** [ESS03, OCL+01, RR13, SSS04]. **Polygonization** [PB16]. **Polyhedral** [TV03]. **Polynomial** [DS12]. **Polynomials** [AL16]. **Pooling** [YW11]. **Porous** [NNNS18]. **Pose** [DAM08]. **position** [TMB04]. **Positioning** [SNL12]. **Positron** [CFC05]. **Post** [BFT11]. **Post-Compression** [BFT11]. **Postal** [SGM11]. **Posture** [RI05a, ZLK05]. **Practical** [LWT02, Won09]. **Practicing** [JAPP10]. **Practitioner** [Lie01]. **Pre** [MZE10, OLHL08]. **Pre-Shifted** [MZE10]. **Pre-Specifiable** [OLHL08]. **Precise** [DSM18, KTO04]. **Prediction** [VS13, YL12, YZ04]. **Preface** [ATDT13, Ano08b, STSI15]. **Prefix** [PC03b]. **Preprocessing** [KKW06, NIT13]. **presence** [MA02]. **Presentation** [Por09]. **Preservation** [BBG15, ZLL+07]. **Preserve** [BM11]. **Preserving** [HON03, BH02]. **Principal** [SL10]. **Print** [BT05, LPS15, TYM12]. **Print-And-Scan** [TYM12]. **Printed** [JLS09]. **Prior** [YL10]. **Probabilistic** [CS08, TTK04]. **Probabilities** [NA09]. **Problem** [AAE11, FD08, KGM09, HU04]. **Problems** [CML07, VDKP05]. **Procedure** [LY07b]. **Procedures** [AMR+10]. **Process** [CL01, HJ13]. **Processing** [CDD05, DMMS07, GCO+06, HJ13, KB15, LSSH12, LLMR07, LQDZ15, MRBL05, MPR09, Pal01, SNdL18, SLSZ09, WCFT03, Yan01, YZ02]. **Profile** [XHB08]. **Profiles** [TS01]. **Progenitor** [SJ12]. **Programmable** [LW06]. **Progressive** [Liu10, MNB13]. **Prohibited** [WHC13]. **Projection** [AKS+08, BM14, LSMC16]. **Projections** [GWZ07]. **Projective** [Ska08, WSW05]. **Propagation** [DPR06]. **Property** [LPZ06]. **Proportional** [SBH08]. **Prostate** [SLN04]. **Prostheses** [DHA10]. **Protection** [RR11]. **Prototyping** [PZZ+01]. **Provable** [MCS13]. **Public** [LPZ06]. **publications** [Zha02]. **Punched** [SDK18]. **Purpose** [Dut19]. **Push** [DWZ+05]. **Puzzles** [GOO+16].

**Quad** [OCL+01]. **Quadratic** [SSH17]. **Quadric** [SK15]. **Quadtree** [KGH01]. **Quality** [BM11, DM13, DLZ+11, GBG13, GP16, LLW+11, LHT+11, MR04, NMR11, OLHL08, WZPW11, YW11]. **Quantification** [WZF18]. **Quantization** [BMS06, Hu05, SRM09, SSA13, Yan08]. **Quantization-Based** [SSA13]. **Quantizer** [Abd17]. **Quartic** [DS12]. **Quaternion** [WZPW11]. **Queries** [KKW06]. **Query** [LS03, SSN07].

**Radar** [Käm08]. **Radial** [BG14]. **Radon** [Haw07, HZG07]. **Random** [GFZ14, Kit17, ROAK14, YDZ11]. **Range** [DMMS07, NBB05, PW05]. **Ranking** [FGT15]. **Rate** [BFT11, Hu05, LZ09, SPM13]. **Rate-Distortion** [BFT11]. **Ratio** [BM11]. **Ray** [GBG13, LN12, LWLY08, SK15, TSY+03, BCB16]. **Ray-Quadric** [SK15]. **Rayset** [GY06]. **RBFNN** [VS13]. **Re** [BSS07]. **Re-Using** [BSS07]. **Reaction** [ZSS08]. **Reaction-Diffusion** [ZSS08]. **Reading** [WZW07]. **Real** [ATA14, BMK19, BMS06, DDSP13, GSP+08, HZH15, JZH14, JSW12, NMM10, SNdL18, SD01, YPYW04, YZ02]. **Real-Time**

[BMK19, BMS06, DDSP13, GSP<sup>+</sup>08, HZH15, JZH14, JSW12, NMM10, SNdL18, YPYW04, YZ02]. **Realism** [DF11, Nak01]. **Realistic** [CC06, LSMC16, THBR05]. **Reality** [ES10, GSP<sup>+</sup>08, KMSP17, LFZL06]. **Reassembly** [GOO<sup>+</sup>16]. **Recognition** [AU07, ATA14, AA11, AKE19, BNE18, Bha17, CL01, DG10, FMH12, FTWR17, FZYH08, GLX09, HZH15, II15, JS18, JZH14, KKKH14, LZZ<sup>+</sup>13, LWCC11, MII17, MR06, MBN13, NETM10, Pal01, PGW04, PW05, PM17, PD17, RI05a, Ran12, RA13, Ray14, SNL12, SLSZ09, SC16, SWZM03, SGM11, TSY<sup>+</sup>03, TA16, UPR11, WXS<sup>+</sup>18, XTLY07, XLW12, YKA08, ZYNC06, ZSCG07, dSP16, BJ04, Liu02a, MB04]. **Recognizing** [PP01]. **Reconstructing** [LZF15]. **Reconstruction** [CHT09, CCL<sup>+</sup>07, FLH<sup>+</sup>07, GWZ07, HSEI03, HN02, KZCP07, KS06, Pap07, PFQ<sup>+</sup>15, SK15, SL09, TMSS04, ZLK05]. **Recovery** [PBC05, SSA13]. **Rectification** [FLW<sup>+</sup>12]. **Red** [Wei13]. **Reduction** [Far17, GLN17, PAD11]. **Redundancy** [SR16]. **Reference** [BR09, DM13, LSZ01, NLC<sup>+</sup>09]. **Reference-Free** [NLC<sup>+</sup>09]. **Reference-Watermarking** [BR09]. **Refinement** [SG11]. **Reformative** [WCZC10]. **Refractions** [KTO04]. **Region** [Al 06, BJ16, DG09, Kit18, LWZ17, LG03, MT13, WC11, YLPC08]. **Region-Based** [Al 06, MT13]. **Region-Wise** [BJ16]. **Regional** [BS19]. **Regions** [MKS<sup>+</sup>09, YL12]. **Registration** [AK04, BS04, CYV17, CH08, HSEI03, JKW<sup>+</sup>15, MZE10, NVN<sup>+</sup>12, PBHM03, Sha17, TYO02, WF05, ZS06, HU04]. **Regularity** [HHL<sup>+</sup>08]. **regularization** [BH02]. **Regularizers** [SWR<sup>+</sup>01]. **Rehabilitation** [NMM10]. **Reinforced** [TT06]. **related** [Zha02]. **relation** [LPS02]. **relations** [LPS02]. **Relationship** [DG10, MII17, ZYZH05]. **Relative** [SNL12]. **relaxation** [KTK02]. **Relevance** [CGP03, DDV03, LY07a, WCX02, WCFT03]. **Reliability** [Kan02]. **Reliable** [Lie01]. **Relief** [LW06]. **Remote** [GSP<sup>+</sup>08, LGS<sup>+</sup>01, TK03, YZ02]. **Removal** [ASV13, BT05, HHCS19, LLS05, LWLY08, Ref15, WS02]. **Removing** [BGX06]. **Rendering** [BS04, Cai16, DDSP13, CC06, ESS03, GY06, LSZ01, MMP<sup>+</sup>14, PXLS08, SW05, TQJN01, THW<sup>+</sup>07, WSW05, WCC<sup>+</sup>06, YMG04, ZDT05]. **Rendering-Based** [MMP<sup>+</sup>14]. **Repainting** [AMB16]. **Replicas** [CMR08]. **Repositories** [PC03b]. **Representation** [BYNZ05, EAK<sup>+</sup>06, LZS01, SL10, TSZ<sup>+</sup>17, WCFT03, ZYZH05]. **Representing** [NG07]. **Rerendering** [LSSH12]. **Research** [PXLS08]. **Reshaping** [SBH08]. **Residual** [Yan08]. **Resistant** [LLS05]. **resizing** [PL02]. **Resolution** [AK14, BM14, FTWR17, NFP10, PZZ<sup>+</sup>01, SG13, YPYW04, PL02]. **Resonance** [JBC13, LW07]. **Restoration** [AMB16, BJ16, DC05, LZZ07, PS12, SL11, YL12, ZLL<sup>+</sup>07, BH02]. **Results** [LBP05]. **Retina** [DHA10]. **Retinal** [HKP<sup>+</sup>19, JH10]. **Retinopathy** [GGC18]. **Retrieval** [AAE11, DS19, DDV03, Fen01, LY07a, LZS01, MA12, TV03, WCX02, WCFT03, WCY11, WG01, YHZ06, EK02]. **Reverse** [BSS07, LTJY05, RR13]. **Reversible** [MM17, MR16]. **Review** [AU07, ALT03, CGG<sup>+</sup>06, HYC05]. **Revisit** [SWR<sup>+</sup>01]. **RFA** [AMR<sup>+</sup>10]. **Rhythmic** [ADV02]. **Rightful** [RR11]. **Rigid** [CYV17, CH08, LLZ03]. **River** [Dut19]. **Road** [SBYG04, HU04, TMB04]. **Robot** [TCB06]. **Robust** [AIBA14, AW05, AK14, BR09, CZ01, DG10, EAK<sup>+</sup>06, II15, JKW<sup>+</sup>15, KH11, LHS05, MR16, NBRR10, PBHM03, RR11, RMG18, SVM18, SP11, TTL07, WB02, WYL12]. **ROI** [LWZ17]. **Rose** [Zou08]. **Rotational** [HN02]. **Rough** [SS02]. **Rule** [GM16]. **Ruled** [Ref15]. **Ruled-Lines** [Ref15]. **Run**

[MSC13].

**Saliency** [TYKO14]. **Salt** [HHCS19].  
**Salt-and-Pepper** [HHCS19]. **Sampled**  
 [LN12, Liu10]. **Sampling** [XPZ03].  
**Sampling-Based** [XPZ03]. **SAR** [BJ04].  
**Satellite** [BF11, Dut19, SG13]. **Scalable**  
 [HHL+08]. **Scalar** [MMP+14]. **Scale**  
 [DL13a, FA06, GCB+09, KHV02, PC03b,  
 PB16, WGPC03, ZLG+07, KL02].  
**Scale-Space** [DL13a]. **Scales** [LBP05].  
**scaling** [SLBK02]. **SCAM** [YMG04]. **Scan**  
 [TYM12]. **Scanner** [STB10, YMA03]. **Scans**  
 [MR04, WXS07]. **Scattered** [KS06]. **SCCI**  
 [RR05]. **SCCI-Hybrid** [RR05]. **Scene**  
 [FJ12, LSZ01, LZS01, LWY14]. **Scenes**  
 [KKW06, KMSP17, Nak01, TQJN01].  
**Scheme** [BR09, DA10, FR16, GLX09,  
 LME08, NETM10, PS12, RMG18, SSA13,  
 SYLC05, WCX02, PL02]. **Schemes** [Hu05].  
**Scissors** [HSCW01]. **Scores** [BBB+05].  
**Screen** [BJ13]. **Script**  
 [JLS09, PD17, SDK18]. **Seam** [HJ13].  
**Seamless** [BMS06]. **Seams** [BMH08].  
**Search**  
 [CZ01, LS03, PC03a, PF02, ZS06, KL02].  
**Searching** [LLTY07]. **Secret** [FR16].  
**Secure** [TB18]. **Securing** [SMSK18].  
**Security** [KBL11]. **Seeded** [LWZ17].  
**Segment** [Bha17]. **Segmentation**  
 [AS01, AK14, AL16, BCB16, BH10, CHY07,  
 CNvW+14, CNS+15, CW05, Dut19, JLS09,  
 Kan02, LYL12, LPL14, LG03, MNB13,  
 MMSC11, MKH16, MT13, PDB12, PR04,  
 RYLZ06, SU15, SJ12, SWR+01, VG09,  
 VH07, WPGF09, WC11, WL12, WCZC10,  
 YDZ11, WSL02]. **Segmented** [NVN+12].  
**Segments** [HLB01]. **Selection**  
 [BNE18, Kan02, SS02]. **Selective**  
 [GLX09, PS12]. **Self**  
 [DL13b, PBC05, Liu02a]. **Self-Dual**  
 [DL13b]. **self-organizing** [Liu02a].  
**Semantic**  
 [Al 06, CGP03, FJ12, HLB01, Hel18, ZWZ08].

**Semi** [HJ13, STB10, ZS06].  
**Semi-Automatic** [HJ13, STB10].  
**Semiconductor** [LK02, NLC+09]. **sensing**  
 [YZ02]. **Sensitivity** [HC10]. **Sensor**  
 [FD08, YZ02]. **Sensors** [HC10].  
**Separability** [DM13]. **Separation**  
 [BF11, DSM18, Kan02]. **Sequence** [ASV13,  
 DPR06, PC03a, SGM11, VS13, ZW09].  
**Sequences** [LWT02, NMR11, NK11, SFC08,  
 TTK04, WPGF09, Wei13, YZ04]. **Series**  
 [LYT06, PF02]. **Server** [DWZ+05, ZLG+07].  
**Set** [AK09, BME07, BH10, CBCT07, MR12,  
 Ray14, ROAK14, WSZ09, ZL12]. **Sets**  
 [SLN04, SWR+01, TV03]. **Shading** [SW05].  
**Shadow** [DSM18, MLS+04, ZSXL08].  
**Shadow-Free** [DSM18]. **Shadows**  
 [TSY+03]. **Shape** [CVdSdS16, CYV17,  
 DS12, EK02, EAK+06, GMLASVV18, HL13,  
 KZ06, LBP05, LZW06, LTJY05, LFZL06,  
 NNS18, dOGC+19, SSH17, SB15, SG11,  
 TS01, YCVdS17, ZZWG06, KTK02, SL02].  
**Shape-Based** [CVdSdS16, dOGC+19,  
 YCVdS17, ZZWG06, EK02]. **Shapes**  
 [AL10, BME07, NG07]. **Sharing** [FR16].  
**Sharp** [SCY12]. **Shearlet** [BS19]. **Shift**  
 [HXCW13]. **Shifted** [MZE10, WLW+07].  
**Shirt** [HRH+10]. **Shock** [CDD05].  
**Shopping** [GSF+03]. **Shot** [KRS17, LZS01].  
**Showface** [AH03]. **Signals** [ZWZ08].  
**Signature**  
 [GMLASVV18, LZW06, SB15, SYLC05].  
**Significant** [SSS04]. **Silhouette**  
 [APC17, Cha08, XHB08]. **Silicon** [CMR08].  
**Similar** [JS18]. **Similarity**  
 [Abd17, AK09, CNvW+14, CNS+15, LS03,  
 LLTY07, PC03a]. **Similarity-Based**  
 [Abd17, PC03a]. **Simple** [HON03, OCL+01].  
**Simplification** [CWFV03, HON03, TC14].  
**Simplifying** [MTVM01]. **Simulation**  
 [DHA10, LF15, WCC+06, ZSAS06, ZSS08].  
**Simulations** [KGM09]. **Simulator**  
 [DPC+10, HWL+06]. **Single**  
 [BM14, CWFV03, TC14]. **Single-Pass**  
 [CWFV03]. **Singular** [AS08, BR09].



**Singularity** [HHL<sup>+</sup>08]. **Sinogram** [CFC05]. **Size** [Abd17, MSC13]. **Skeleton** [CYZ09]. **Skeleton-Driven** [CYZ09]. **Skeletonization** [DK05]. **Skew** [AW05, MHN08]. **Skin** [CYZ09, WSO<sup>+</sup>03]. **Skinning** [CYZ09]. **Slices** [CS18]. **Small** [WYZR18, Wei13]. **Smart** [MRBL05, YZ02]. **Smooth** [YL12, YW12]. **Smoothing** [BBG15, PS12]. **Snakes** [GO04, TTK04]. **Soft** [PK14]. **Software** [MH10]. **Solution** [FD08, Haw07, HU04, Raj19, Zou08]. **Solving** [WSZ09]. **Some** [Sar04, WSZ09]. **Sources** [BF11]. **Sourcing** [Lee02]. **Space** [DL13a, HN02, LLW<sup>+</sup>11, OKI<sup>+</sup>03, RMG18, Ska08]. **Spaces** [MRBL05]. **Spanning** [MSC13]. **Sparse** [MKH16, SWZM03, TSZ<sup>+</sup>17]. **Spatial** [CFC05, DM13, DG10, Dut19, KMSP17, YW11]. **Spatial-Temporal** [YW11]. **Spatio** [CS18]. **Spatio-Temporal** [CS18]. **Specifiable** [OLHL08]. **Specification** [FD06]. **Specified** [BM11, SKL15]. **Speckle** [DL13b]. **SPECT** [FLH<sup>+</sup>07]. **Spectral** [HC10]. **Spectrum** [BS19, LY07b]. **Speech** [JAPP10, SDK18, YKA08]. **Speed** [DPR18, Kon03]. **Speeding** [HZZ11, LYP<sup>+</sup>08]. **Sphere** [BG14]. **Spherical** [KS06]. **SPIHT** [CCAS11]. **Spiral** [MZE10]. **Spline** [DS12, LLL01, SSH17, SPK08, MB04]. **Split** [ZSXL08]. **Spoof** [NA09]. **Sporting** [WHC13]. **Sprite** [BR04]. **Square** [DAM08]. **Squares** [TA16]. **Stable** [Haw07]. **Stage** [SU15]. **Standard** [PK01]. **State** [THBR05]. **Static** [CMR08, GFZ14, JZH14, LYL12]. **Statistical** [HHCS19, LW07, MSC13, PR04]. **Statistics** [KH11, LF08]. **Steganalysis** [Sal05]. **Steganographic** [DA10]. **Steganography** [FR16, Sal05]. **stego** [SMSK18]. **Stencil** [CC06]. **step** [KL02]. **Stereo** [SK15, TMB04]. **Stereoscopic** [CZ01]. **Still** [SWR<sup>+</sup>01, Won09]. **Stitching** [LLLY18]. **Stochastic** [HJ13, JBC13]. **Story** [ES10]. **Story-Based** [ES10]. **Storyboard** [MSC13]. **Straightness** [PB16]. **Strategies** [AAE11]. **Strategy** [BNE18, GLX09, YCVdS17]. **Streaming** [DWZ<sup>+</sup>05]. **Stroke** [SNL12]. **Stroke-Based** [SNL12]. **Structure** [BME07, BG01, DF11, HN02, KH13, NBB05, WCFT03]. **Structured** [JC01, Yan08]. **Structures** [KGM09]. **Studies** [SAA<sup>+</sup>07]. **Study** [FG06, SSN07]. **Styles** [BSS07]. **Stylistic** [SSGM15]. **Stylometry** [JN14]. **Sub** [WCX02]. **Sub-Vector** [WCX02]. **Subdivision** [BSS07]. **Subdivision-Based** [BSS07]. **Subsequence** [PC03a]. **Subspace** [FGT15, Kan02, Liu02a]. **Substitution** [DA10]. **Summarization** [NMR11]. **Sunscald** [LF15]. **Super** [BM14]. **Superellipsoid** [HKP<sup>+</sup>19]. **Superpixels** [LYL12]. **Supervised** [LPL14]. **Support** [DG09, Lee02, TA16, YKA08]. **Suppression** [GA05]. **Surface** [FA06, HSEI03, KS06, MS04, Pap07, SLN04, STB10, TQJN01, TM04, WSO<sup>+</sup>03, WLZ10, XHB08, YMG04, MB04, WS02]. **Surfaces** [LSMC16, LLL01, SPK08]. **Surveillance** [NMR11]. **Survey** [CTI<sup>+</sup>18, HXCW13, KB15, Lie01, SLSZ09, SL09, YCL13]. **SVD** [TB18]. **switching** [KTK02]. **Symbols** [PP01]. **Symmetric** [DG09]. **Symmetry** [KH13, MCS13]. **Synthesis** [BMS06, CHT09, YPYW04, ZWZ08]. **Synthetic** [HWH01]. **System** [AMR<sup>+</sup>10, AW05, AH03, AMB16, CBCT07, DWZ<sup>+</sup>05, ES10, FJ12, GCO<sup>+</sup>06, HFI15, HN02, JZH14, JAPP10, Lee02, LGS<sup>+</sup>01, MLG<sup>+</sup>03, MBN13, Nno17b, PXLS08, ROAK14, SAA<sup>+</sup>07, SMSK18, TCB06, TK03, XHB08, ZYZH05, ABH<sup>+</sup>02, YZ02]. **Systems** [CTI<sup>+</sup>18, DSA15, HMM05, HYC05, Kon03, NESW06, THBR05]. **T1** [MR04]. **T1-Weighted** [MR04]. **Tackling** [AAE11]. **Talking** [HWH01]. **Tampered** [SSA13]. **Tangible** [STB10]. **Target** [WYZR18]. **Task** [LLW<sup>+</sup>11].

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[AAE11, AAS04, AK04, AKE19, AG09, AL16, BR04, BR09, BJ16, BH10, BT05, BSS07, CVdSdS16, CA06, DDS13, CNvW<sup>+</sup>14, CNS<sup>+</sup>15, CYV17, CS18, CCAS11, CZ01, CC06, CMR08, CH08, CGP03, DM13, DA10, DAW01, DA04, DDV03, EFY<sup>+</sup>05, FB02, GPPA04, GFZ14, HSEI03, HFI15, HZH15, JBC13, KBL11, KS10, KKW06, Kit17, KS06, KH13, KNN10, KKKH14, KZ09, KA13, LPS15, LSSH12, LZZ<sup>+</sup>13, LGS<sup>+</sup>01, MII17, MNB13, MM17, MLS<sup>+</sup>04, MSC13, MT13, MR12, NMR11, NNNS18, NIT13, NBB05, Pap07, PFQ<sup>+</sup>15, PK14, PB16, RS16, Ran12, RYLZ06, ROAK14, SK15, SMA<sup>+</sup>18, Sch03, SPM13, SS16, SRM09, SSA13, Ska08, TSY<sup>+</sup>03, TV03, TK03, TA16, VG09, VS13, WCFT03, WL12, WCZC10, YPYW04, YKA08, Bha17, RFT04, VSK18, WSL02, WB02]. **Utilizing** [AS01, MZE10].

**Validation** [PDB12]. **Value** [BR09].

**Vanishing** [LBP05]. **Variable** [Yan08].

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[DM13]. **Variation** [FG06]. **Varied**

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[Bha17, Kit17]. **Vehicle** [SMA<sup>+</sup>18].

**Venation** [THBR05]. **Verification**

[Kon03, KZ06, LZW06, SRBZ01]. **version**

[WB02]. **Vertex** [KVSM11]. **Vertices**

[SSS04]. **Vessel**

[CHY07, GGC18, HKP<sup>+</sup>19, HSCW01].

**Vesselness** [CHY07]. **Vessels** [JH10]. **Via**

[DF11, LS03, PCV10, SSN07, SWR<sup>+</sup>01,

VH07, ZS06, HU04]. **Video**

[BR04, CVdSdS16, CA06, Cha08, CS18,

CCAS11, CZ01, CGP03, DAW01, DSM18,

EFY<sup>+</sup>05, HLB01, HFI15, HRH<sup>+</sup>10, KM12,

LF08, LZS01, LWT02, LHS05, LLW<sup>+</sup>11,

LLLY18, MRBL05, MSC13, NMR11, NPZ01,

NK11, SR16, SGM11, TG08, TMSS04,

TTK04, WPGF09, WHC13, YTW11, YW11].

**Video-Based** [Cha08, TMSS04, WHC13].

**Videophone** [YZ04]. **Videos**

[Lie01, LLLY18]. **View** [DDSP13, ESS03,

IKY02, OÖ03, Pou02, YPYW04, KKB02].

**View-Dependent** [ESS03, KKB02].

**Viewpoint** [TC14]. **Views**

[FJ12, Käm08, OÖ03, WYL12].

**Vijayanagara** [AMB16]. **Virtual**

[AK04, BMH08, CGG<sup>+</sup>06, CC06, ES10,

GSP<sup>+</sup>08, GSF<sup>+</sup>03, HSCW01, Kan05,

KMSP17, LFZL06, NMM10, PZZ<sup>+</sup>01,

SBYG04, TCB06, WGPC03, ZLG<sup>+</sup>07].

**Visibility** [KKW06, ZDT05]. **Visible**

[CBCT07]. **Vision**

[BBG15, DTJ10, HZH15, JZH14, NLC<sup>+</sup>09,

PCV10, SK15, TR10, TMB04].

**Vision-Based**

[HZH15, JZH14, SK15, TR10, TMB04].

**Visual** [DSA15, DHA10, FJ12, FB02,

HLB01, JN14, JC01, Pou02, SSN07, TYM12,

WYL12, YLPC08, YKA08]. **Visualization**

[AMR<sup>+</sup>10, EBA15, FA06, GSP<sup>+</sup>08,

GCO<sup>+</sup>06, KHYV02, KA13, Lee02, LLMR07,

MMP<sup>+</sup>14, MPR09, Por09, SAA<sup>+</sup>07, SPC02].

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**Vitality** [CMR08]. **Vivo** [WLW<sup>+</sup>07]. **VLSI**

[KB10]. **Vocabulary** [RA13]. **VOI**

[THW<sup>+</sup>07]. **Volume** [Ano03a, Ano04a,

Ano05a, Ano06, Ano07a, Ano08a, Ano09,

Ano10, Ano11, Ano12, Ano13, Ano14,

Ano15, Ano16, Ano17, Ano18, FA06, FG06,

LN12, MMP<sup>+</sup>14, Ska06, TMSS04, THW<sup>+</sup>07,

WSW05, WCC<sup>+</sup>06, ZDT05, Ano02].

**Volumetric** [KA13, WSO<sup>+</sup>03]. **Voxels**

[WSW05]. **VR** [GCO<sup>+</sup>06, OKI<sup>+</sup>03].

**Warping** [FLW<sup>+</sup>12, PSM04]. **Water**

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**Watermarking**

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LSKC05, MM17, MR16, RR11, RMG18,

SSFC09, SSA13, SPK08, TB18]. **Watershed**

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