

# A Complete Bibliography of Publications in *SIAM Journal on Imaging Sciences*

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## Title word cross-reference

$L^1TV$  [DHN09].  $l_{1-2}$  [MLH17].  $L_2$  [FKLS12].  
 $N$  [HCCS20, BHM12].  $p$   
[ETT15, GWY09, HFE19].  $P_2$  [FRV18].  $\pi$   
[HF12].  $SE(2)$  [BDMS15].  $SE(3)$  [ARF16].  $T$   
[LLYG14, LS19, TM18].  $TV^\phi$  [HVW15].  $\varphi$   
[KSS19].

( $BV, L^1$ ) [AT11].  $0$  [CLL15, CHL16].  $1$   
[LHW<sup>+</sup>15, WLYU15].  $2$   
[AM16, CCBB14, DSYT10, GTO14,  
GBFA10, GBFA12, LdGKW19, PS11, SM18,  
TAF<sup>+</sup>20, UC13, Wol09, YY13].  $3$   
[DSYT10, DGH11, EST20, GS13, HMS17,  
NTDB19, TAR<sup>+</sup>19, WCN<sup>+</sup>19, YLLY19].  $4$   
[LHB<sup>+</sup>18].  $q$  [HW13].  $\alpha$  [FSV10].  $D$  [AM16].  
 $\ell^1$  [SZW14].  $\ell_0$   
[CJPT13, Nik13, SBFA15, SBFA16].  $\ell_{0,\infty}$   
[PG19].  $\ell_1$  [BK15, LY13, SX12, YOGD08].  $\ell_2$   
[CJPT13].  $\ell_{2,1}$  [LLC14].  $\ell_{\infty,1}$  [CWR19].  $\Gamma$   
[GBFA12, Naj17, GBFA10].  $H^1$  [MB16].  $\infty$   
[ETT15].  $K$  [DPC13].  $L1$  [GO09].  $L^1$   
[MGKR15, LMM17, CJK10].  $L^1/L^2$  [HL13].

**-Bar** [AM16]. **-Based** [PG19].  
**-Convergence** [GBFA10, GBFA12, Naj17].  
**-D** [GBFA12, GBFA10]. **-Dimensional**  
[AM16, DGH11, LdGKW19, WCN<sup>+</sup>19,  
Wol09, HCCS20]. **-Distribution** [DPC13].  
**-harmonic** [GWY09]. **-Kernels** [FSV10].  
**-Laplacian** [ETT15, HFE19]. **-Line** [HF12].  
**-Manifolds** [YLLY19]. **-Map** [LLYG14].  
**-mean** [MGKR15]. **-Minimal** [KSS19].  
**-Minimization** [YOGD08]. **-Models**  
[HW13]. **-norm** [Nik13]. **-Product** [TM18].

**-Regularization** [MB16]. **-regularized** [GO09]. **-Space** [BHM12].

**/TV** [FKLS12]. **/TV-Image** [FKLS12].  
**/Underexposed** [HJS13].

**1PI** [KK08].

**Abdominal** [AKLS17]. **Abel** [AAD<sup>+</sup>08].

**Absence** [BH17]. **Absorbing** [FST20].

**Absorption** [FFA11].

**Absorption-Diffusion** [FFA11].

**Accelerated**

[HMS17, HPZ16, OCLP15, STY11].

**Accelerating** [Che14]. **Account** [PS11].

**Accuracy** [PFA<sup>+</sup>19]. **Accurate**

[BBC11, Far19, SMA11, YJL<sup>+</sup>17]. **Acoustic** [DMZ18, JLZ19a]. **Acousto** [RB18].

**Acousto-Electric** [RB18]. **Acquisition**

[BWB14, STCB13]. **Activation** [CG19].

**Active**

[ABG13a, ARY10, JPC12, NPJI17, SDM17].

**Adapted** [CJ14, DKP09, Mär11]. **Adaptive**

[ACSW12, ADD12, BZNC16, BPT11, Get11,

HSY20, LLBS14, LCS<sup>+</sup>16, LLLX17, PH14,

YGS<sup>+</sup>19, ZZ19]. **Adaptivity** [LLSZ09].

**Additive** [LY12]. **Adjoint**

[LQS14, MPM<sup>+</sup>17]. **Admittivity** [DHSS13].

**ADMM** [ACL16, CCMY15, HMY16, YY17].

**ADMM/Douglas** [ACL16]. **Affected**

[SG15]. **Affine**

[CAT08, FAS<sup>+</sup>15, KO16, LVEB09, MY09,

RDM18, SCM<sup>+</sup>12, STV09, SNDP13, Zhu16].

**Algebraic** [APST19, TV17]. **Algorithm**

[AM16, BT09, BPS16, BAA14, BAS15,

BWB14, BLC10, CCMS13, CKL17, CMLZ18,

Che14, CLY19, CJT<sup>+</sup>12, DFM<sup>+</sup>12, DMTZ16,

FR14, FK10, Gil14b, HYY14, HK19, HDH16,

HPZ16, HH18, ISW13, KHD<sup>+</sup>15, KMDL19,

KSZ12, LY13, LNPS17, LBM13, LLSZ09,

LCS<sup>+</sup>16, LZ16, LSC<sup>+</sup>18, MB15, MMT18,

OCBP14, PS19, QSUZ11, STY11, SWGL15,

THC11, LDCG14, TBKF15, WYYZ08,

YYZW09, YLLY19, ZLD<sup>+</sup>18]. **Algorithms**

[AB10, ADGM14, ACN16, ACL16, CTY13,

CPP09, CHH<sup>+</sup>12, CNS10, CG19, EZC10,

HY12, HPPZ19, KK08, LO17, LS11,

ODBP15, RE15, TM18, YOGD08]. **Aligned**

[CLL15]. **Alignment** [EHL17, OGL15].

**Almost** [BHM12]. **along** [Get11].

**Alternating** [CYY11, CTY13, CEM19,

Che14, GOSB14, KHD<sup>+</sup>15, LLC14, OCLP15,

PS16, WYYZ08, YPC17]. **Ambiguity**

[BCD<sup>+</sup>12]. **AMP** [ET18, ET18]. **Ampère**

[STV09]. **Amplitude** [Sto11]. **Analysis**

[ALKÖP19, AGP18, BKBD16, BCP13b,

BK15, BGP<sup>+</sup>17, BCD<sup>+</sup>12, CC14, DAB<sup>+</sup>20,

DB13, Dro14, FH15, FAS<sup>+</sup>15, GPST15,

GK14, Gil14a, GDT18, GL09, GL13,

HSF<sup>+</sup>19, HN17, HY12, HHK<sup>+</sup>18, HW13,

HQ19, LPSS15, LSW14, Lou08, LY18, MB10,

PMS20, QS15, RNH19, RGLB14, SDM17,

SHVC19, VF13, VF14, Wah15, WSL13,

WY17, WCA<sup>+</sup>18, WDCT09, Yin10,

ZvDT<sup>+</sup>17]. **Analytic** [MH17]. **Analytics**

[BH15a]. **Analyzing** [BFJQ18]. **Anatomy**

[DATP17]. **Angle** [SZSH11]. **Angles**

[BG15]. **Angular** [PFA<sup>+</sup>19]. **Anisotropic**

[BGM14, BP18, CLPS19, CFM09, FSV10,

LZOX15, YGS<sup>+</sup>19]. **Anisotropy** [LMM17].

**Aperture**

[AC12, AH17, BCP13b, BMPT16, BGP<sup>+</sup>17,

BK18, BG20, CB11, DFM<sup>+</sup>12, FSY09,

GP15, LDS20, Voc15, WY14, WY17, YY15].

**Apertures** [WY12]. **Appearance** [CV13].

**Application** [ACL16, ABR10, BCP13a,

CCR<sup>+</sup>12, CHH<sup>+</sup>12, HHR08, HLST15, HQ19,

JM16, Kla11, LS18a, LKW<sup>+</sup>19, LPSS15,

Lou08, MH17, Mui09, PYW<sup>+</sup>14, RL15,

RB15, RDM18, RG16, ST19, Sdi13, SZW14,

WFBFA11, YY17, MSKL09]. **Applications**

[AARW19, BH17, BB14, Bel13, BLSW14,

CKL17, CFM09, CV13, DDGL19, DPSV17,

DB13, Dro14, ERS18, ETT15, ELX13,

GKL13, HP11, HMZZ19, HK14, KL18a,

LY15, LLC14, LLYG14, MMM12, MB10,

OV14, RLL14, RW13, SHVC19, SMSY11,

TM18, WSL13, WLTC12, XY13, YPC17,

YOGD08, ZCO18, Zhu16]. **Applied** [ALKÖP19, BCMO08]. **Approach** [BZNC16, BDMS15, BDM15, BCP13a, BK18, CT17, CDP19, CCP12, CLC13, CJPT13, CJPT15, CP16, DSYT10, DD13, DLW16, DAG11, FLZ14, FH11, GH18, GDF15, GBFA10, GBFA12, HHK<sup>+</sup>18, HNAC<sup>+</sup>15, JLN14, KGB15, KP13, MTWB14, MQLC16, MWBB12, MGKR15, NW13b, PG19, PCCP19, PPE<sup>+</sup>09, PYA<sup>+</sup>12, RDG09, RB18, RW09, SDZ15, STY11, SV08, WN13a, Wan16b, YK16, YZL<sup>+</sup>18]. **Approaches** [LS11]. **Approximating** [BHV12, KN14]. **Approximation** [FRV18, GT15, Han12, HR15, JHSX11, LdGKW19, MF13, Pey15, Tsy09b, WE17]. **Approximations** [BCD<sup>+</sup>12, FF13, ZCO18]. **Arbitrary** [BFJQ18, LDCG14, WDCT09]. **Area** [CE12, CAT08, OAUC<sup>+</sup>20]. **Arises** [GSC12]. **Arising** [JM16, MH17, YCU19]. **Array** [GP14, GPST15]. **Artifact** [ZDL18]. **Artifacts** [BFJQ18, HF12, PUW17, Pal16, YCF<sup>+</sup>16]. **Artist** [HMS17]. **ASIFT** [MY09]. **Aspects** [HVW15]. **Aspherical** [GS16]. **Assess** [AKLS17]. **Assignment** [HSÅS18, KMDL19]. **Assimilation** [PM08]. **Associated** [FSV10, LVEB09]. **Assumptions** [RVCB19]. **Astronomical** [PPE<sup>+</sup>09]. **Astronomy** [BCP13a]. **Asymptotic** [GK14, MHP17, TM16a]. **Atlas** [ADK15, DAB<sup>+</sup>20, DL14]. **Atrophy** [AMY16]. **Attenuated** [LQS14]. **Attenuation** [LQS14]. **Augmented** [LY13, LLS<sup>+</sup>13, MGKR15, THC11, WT10]. **Autocorrelation** [LMSY13]. **Automated** [CLPS19]. **Automatic** [BAA14, CJK10, Fou10, KHD<sup>+</sup>15]. **Automatically** [TAF<sup>+</sup>20]. **Averaged** [LH18]. **Averaging** [RW09]. **Away** [Mil18].

**B** [Sdi13]. **B-Spline** [Sdi13]. **Back** [ACN16]. **Back-Projection** [ACN16]. **Background** [YPC17]. **Background/Foreground** [YPC17]. **Backprojection** [DMZ18, HF12]. **Backpropagation** [AGM14]. **Backscatter** [KKN19]. **Backscattered** [SSSW09]. **Backscattering** [TBKF15]. **Backward** [GKL13, RFP13, RL15]. **Balanced** [STY11]. **Ball** [CWR19]. **Banach** [MD15]. **Banach-Like** [MD15]. **Band** [Her19, SM16]. **Band-Limited** [Her19, SM16]. **Bandwidth** [SDR20]. **Bar** [AM16, CvG10, HRSZ16, ISW13]. **Barcode** [LEZX14]. **Barrier** [WH15]. **Based** [ABG<sup>+</sup>13c, ACSW12, AT11, BAA14, BCP13a, BS15, BH12, BH15a, BH15b, COS09, CCMS13, CGMP11, CLL11, CTY13, CTWY15, CLDM18, Che14, CBZ18, CGN<sup>+</sup>13, DSYT10, DL18a, DD13, DL14, DPC13, DLW16, DHP19, DMTZ16, FA09, FGS12, FGPT17, GLR18, GB11, GPST13, GSXH18, GEB15, GLQ15, GDT18, GM10, HPZ11, HDH16, HW13, HSÅS18, ISW13, LL14, Lan19, LMSY13, LAZ<sup>+</sup>18, LS19, LNZZ10, LCS<sup>+</sup>16, LLC14, LLS<sup>+</sup>13, LWY16, LY18, Mär11, MPM<sup>+</sup>17, MPGMD19, NNYZ17, NS17, PG19, PPE<sup>+</sup>09, PYA<sup>+</sup>12, QSUZ11, SHB<sup>+</sup>18, SKJ<sup>+</sup>19, STY11, SEMS19, SDA15, TZS13, TM18, VF13, Wah15, WZ17, YGS<sup>+</sup>19, ZBN17, LTW<sup>+</sup>10, Mah12, NT11, RGLB14, MYZ13]. **Bases** [HLKH14, YGLD17]. **Basis** [CJ14, GH18]. **Bayesian** [ADK15, DMP18, FR14, GDF15, LBM13, LKW<sup>+</sup>19, LDS20, Per17, PCP<sup>+</sup>16, RPW19, SLS19, SN11, SNM17, TAR<sup>+</sup>19, ZYZL20]. **Be** [SMA11]. **Beam** [LSC<sup>+</sup>18]. **Beamforming** [SDR20]. **Beams** [SDR20]. **Beltrami** [LZ17a, LLWG13, RDSK09, WZYX13, WkZ14]. **Benchmark** [ELB18]. **Bertozzi** [CFM15]. **Best** [ADGM14]. **between** [BGV09, FAS<sup>+</sup>15, MMT18, SHS10]. **Beyond** [ZTO15, GT15]. **Bézier** [AGSW16]. **Bias** [DAG11, MHP17]. **Bias-Variance** [DAG11]. **Biclustering** [TS14]. **Bijjective** [Lip14]. **Bilateral** [Ang13]. **Bilevel** [KP13].

**Bilinear** [LS18b]. **BinaryRelax** [YZL<sup>+</sup>18]. **Biperiodic** [LN13]. **Bistatic** [WY14]. **Black** [Mil18]. **Blind** [BR15, BGG19, Car10, CEM19, CB18, CHM13, GS13, Gil14b, HBFA14, HLST15, HH18, JBS17, LEZX14, Mar09, RKT<sup>+</sup>13, RB15, SX12, WSL13, Yan13]. **Blind-Spot** [CHM13]. **Blob** [RK19]. **Block** [BWB14, HLST15, LP19, LZ17b, RNH19, SMA11, XY13]. **Block-Constrained** [BWB14]. **Blur** [LEZX14, YY17, ZWN14]. **Blurred** [DZ13, SDZ15]. **Blurring** [EW15]. **Blurry** [CYZ14]. **BM3D** [ET18]. **Bochner** [Car10]. **Bodies** [HLLS14]. **Boltzmann** [NTDB19]. **Boosting** [RE15]. **Born** [GT15]. **Both** [LQS14]. **Boundaries** [APST19]. **Boundary** [DHSS13, HP15, Lip14, OAUC<sup>+</sup>20, ZC15]. **Bounded** [NPV16]. **Bounds** [ADGM14]. **Box** [GL13, Mil18]. **Brain** [BCD19, CLL15, DL14, KT14, LPP<sup>+</sup>09, StTBRV12]. **Breast** [CNS10]. **Bregman** [COS09, GO09, LSW14, MBBS14, WT10, YOGD08, Yin10, ZvDT<sup>+</sup>17]. **Bregmanized** [ZBBO10]. **Brightness** [Lan19]. **Budget** [HNAC<sup>+</sup>15]. **Bundles** [Bat10]. **Buried** [KKN19, TBKF15]. **Butterfly** [DFM<sup>+</sup>12]. **BV** [BP18].

**Cahn** [CFM15, BKS14, BS15, BHS09, GLS18]. **Calculus** [RW13]. **Calibration** [CJK10, EST20, LS18b, WHY<sup>+</sup>15]. **Camera** [JM16, KT16, LSZ18, ÖSB15, RVCB19]. **Cameras** [GOF16, MH17, SXS<sup>+</sup>15]. **Can** [SMA11]. **Capacitance** [BAA14]. **Cardiac** [LKW<sup>+</sup>19]. **Cardinal** [AR15]. **Carlo** [DMP18]. **Carrier** [ST11]. **Cartoon** [JK15, Kut13]. **Cascadic** [MRSS08]. **Case** [LRP17]. **Cauchy** [SDZ15]. **Cavity** [NK16, QYZ19]. **CELO** [SBFA15, SBFA16]. **Cerebral** [CHPS09]. **Chain** [DMP18]. **Chan** [NPJI17]. **Change** [FH11, PCP<sup>+</sup>16, WFBFA11]. **Changes** [BG14]. **Characterization** [DL18a, GL09, SJD<sup>+</sup>15]. **Cheeger** [CFM09]. **Chief** [Sap08]. **Chirps** [NDM<sup>+</sup>11]. **Choice** [CJK10, NLH<sup>+</sup>16]. **Chrominance** [PAB<sup>+</sup>15]. **Chromoscopy** [FFA11]. **Circle** [SC10]. **Circular** [CE12, HP15, OAUC<sup>+</sup>20]. **Class** [EJC10, GKL13, HL13, KK08, YPC17]. **Classes** [BMP13, KT14]. **Classification** [AZ13, ATW14, CCFBY13, GH15, MKB13, SZSH11, WMT<sup>+</sup>09]. **CLEAR** [DPSV17]. **Clifford** [Bat10]. **Closed** [CLL15]. **Cloud** [DPH<sup>+</sup>13, LZ17a, MMT18]. **Clouds** [CHL16, MCL16]. **Cluster** [MPGMD19]. **Clustered** [Kut13]. **Clustering** [SX12, TV17]. **Clutter** [BPT11, YY15]. **Coded** [RKT<sup>+</sup>13]. **Codes** [CvG10, ISW13, NDM<sup>+</sup>11]. **Coding** [GTU14, PG19, WMT<sup>+</sup>09]. **Coefficient** [KKN<sup>+</sup>18]. **Coherence** [BBJ<sup>+</sup>18, FL12, HR15, Mär11]. **Coherent** [FH11, MNP16]. **Collaborative** [DMSC16, ZLD<sup>+</sup>18]. **Color** [ABR10, HP11, JNW19, MBBS14, SZGW18]. **Colorization** [PAB<sup>+</sup>15, PABT17]. **Combinatorial** [CGTN11]. **Combining** [Lou08]. **Comet** [HF12]. **Cometric** [MMM12]. **Common** [Bat10, RVCB19, SS11]. **Communications** [CCR<sup>+</sup>12]. **Communications-Inspired** [CCR<sup>+</sup>12]. **Compact** [MD15]. **Compactly** [HMZZ19]. **Comparative** [Her19]. **Comparison** [MY09, RDM18]. **Compartmental** [CK09]. **Compensated** [ZCO18]. **Competition** [LNZS10]. **Completion** [BZNC16, BBP09, CESV13, HCCS20, XY13, ZN19]. **Complex** [HZ14, HMZZ19, NAF<sup>+</sup>14, PYW<sup>+</sup>14, TAR<sup>+</sup>19]. **Component** [BCP13b, HPPZ19]. **Components** [LS17]. **Composite** [GM18, HPZ16, PYW<sup>+</sup>14]. **Composition** [AR15]. **Compressed** [ADD12, BH17, DPVW14, FSY10, LHB<sup>+</sup>18, NDM<sup>+</sup>11, Poo15, RB15, YOGD08].

**Compression**

[LLWG13, MPGMD19, SZGW18].

**Compressive** [CCR<sup>+</sup>12, CCBB14, Fan09, FL12, GY12, HPPZ19, KL18b, LLC14, MJC<sup>+</sup>19, Mui09, RKT<sup>+</sup>13, Rom09, STCB13, SXS<sup>+</sup>15, SJD<sup>+</sup>15, WHY<sup>+</sup>15, ZLD<sup>+</sup>18].**Compton** [JM16, KT16, MH17, Rig17].**Computation**[DMP18, FN17, KBW13, OAUC<sup>+</sup>20, WkZ14].**Computational**[CJT<sup>+</sup>12, DATP17, HNAC<sup>+</sup>15, KGC11].**Computed**[LSC<sup>+</sup>18, MPL<sup>+</sup>18, MPM<sup>+</sup>17, WZ17].**Computer** [ODBP15]. **Computing**[KLS<sup>+</sup>17, QLL19, StTBRV12]. **Concave**[Per19]. **Concise** [KO16]. **Condition**[CLC13, Sdi13]. **Conditional** [GL17].**Conditionally** [CHPS09]. **Conditions**[ZC15]. **Conductivities**[BGM14, CFdGK09]. **Conductivity**[RB18, WR14]. **Cone** [JM16, LSC<sup>+</sup>18].**Cone-Beam** [LSC<sup>+</sup>18]. **Confidence**[Per17]. **Conformal** [AKZ13, CHL16,LTW<sup>+</sup>10, QLL19, SWGL15, WkZ14, LL14].**Conical** [MH17]. **Conjugate** [CZ10].**Connected** [CR18]. **Connectedness**[NL10]. **Connections** [NPJI17, StTBRV12].**Connectivity** [HSF<sup>+</sup>19, LPP<sup>+</sup>09].**Consensus** [BCSB18, TS14]. **Conservation**[Lan19]. **Conservative** [FPM17].**Consistent** [DATP17]. **Consisting** [JM16].**Constant** [LO17, NS14, NNZC08, OJ16].**Constrained** [ATTY16, BC15, BWB14,CTY13, CPP09, CCMY15, CGN<sup>+</sup>13,

DGJS16, GS13, Her19, MB15, MB16].

**Constrains** [KZ14]. **Constraint**[HP11, LLBS14]. **Constraints**

[AB10, AMY16, KR13, SNB13, TV20].

**Content** [AE08]. **Continuation** [RM10].**Continuous**

[CCKW14, CGTN11, Gol11, GL09, LS11,

PWSU16, SBFA15, SBFA16, WY14].

**Continuum** [HFE19]. **Contour**[Get11, NTV10, ZCO18]. **Contours**

[ARY10, BBP09, JPC12, KZ18, SDM17].

**Contraction** [HY12]. **Contractive** [LY15].**Contrario** [CCBR13, LRP17, SNB13].**Contrast** [DD10, HSY20, WN13b]. **Control**[ATTY16, BMW09, LPP<sup>+</sup>09]. **Controlled**[BV16, TAF<sup>+</sup>20, WR14]. **Convergence**

[ACL16, CTWY15, GH18, GBFA10,

GBFA12, HY12, HYY14, HMY16, Ish14,

Naj17, RB15, LDCG14]. **Convergent**

[CMLZ18, CEM19, HW13, LY13, TBKF15].

**Conversion** [HMS17]. **Convex**

[AR15, BR15, BK17, CCZ13, CCP12,

CPP09, CCMY15, CJPT15, CG19, CAT08,

Dar15, DZ13, EZC10, GSC13, HHR08, HL13,

HPZ16, KYW13, KLS<sup>+</sup>17, LMSS19, LY15,LWM<sup>+</sup>18, ÖSB15, PYAC13, PCBC10,PCCP19, PYA<sup>+</sup>12, RPW19, SO08, SCC14,SS13, TSG<sup>+</sup>11, ZWN14]. **Convexification**[KKN19]. **Convexity** [ACL16, ZCO18].**Convolution** [ACN16, BP18, CDS17, GB18,

HK14, LLLX17, Rom09, YGLD17].

**Convolutional** [LGCWY18, PG19, YHC18].**Coordinate** [FW10, RNH19, XY13].**Cormack** [RLL14]. **Cormack-Type**[RLL14]. **Corner** [KZS14]. **Corners** [GB11].**Corrected** [ZN19]. **Correcting** [MHP17].**Correction**

[BZNC16, CN17, DD10, HL13, KT14].

**Correlated** [AC12]. **Correlation** [FGPT17,

GS10, GPST13, IVW16, SEMS19, Voc15].

**Correlation-Based** [FGPT17, GPST13].**Correlations** [GP09]. **Corresponding**[CFdGK09]. **Corrupted** [Yan13]. **Could**[REM17]. **Coupled** [PCP<sup>+</sup>16, SCC14].**Covariance** [CLMT15, KKS15]. **Covariant**[BB14, FAS<sup>+</sup>15, DPSV17]. **Covering**[RDM18]. **Cradle** [YCF<sup>+</sup>16]. **CRFs**[JDA<sup>+</sup>19]. **Criterion** [ROD15]. **Critical**[KZ18]. **Cross** [GP09, GS10]. **Cryo**

[BGPS17, SS12, SS11, SZSH11, WSW13,

KKS15]. **Cryo-Electron** [SZSH11].**Cryo-EM**

[BGPS17, SS12, SS11, WSW13, KKS15].

**Crystal** [LY18]. **Crystalline** [HSSP09]. **CT**

[BFJQ18, ZD16, ZDL18]. **Curl** [PS11]. **Current** [BGM14]. **Curvature** [BL14b, CLK14, CFSS16, MMM12, MGKR15, ZC12]. **Curve** [BG14, RG16]. **Curvelet** [EHB09, Sto11]. **Curvelets** [GTO14]. **Curves** [BBHMA17, BMP13, CAT08, Get11, KK08, NK20, RLL14, SMSY11]. **Curvilinear** [FW10, GWY09]. **Cut** [LO17]. **Cycles** [RG16]. **Cyclic** [BLSW14]. **Cylinder** [MH17]. **Cylindrical** [Hal11].

**D** [GBFA12, CCBB14, DSYT10, EST20, GS13, GTO14, GBFA10, HRSZ16, HMS17, LHW<sup>+</sup>15, LHB<sup>+</sup>18, NTDB19, PS11, SM18, TAR<sup>+</sup>19, TAF<sup>+</sup>20, UC13, WLYU15, YY13]. **D-Bar** [HRSZ16]. **Data** [ABK15, AAB<sup>+</sup>11, ARYZ18a, ARYZ18b, BDMS15, BLSW14, BT18, BFJQ18, BG15, BHSW18, CDS17, Car10, CH16, CJK10, DPH<sup>+</sup>13, DLL14, DLY17, DLL19, ETT15, FA09, GPPM15, GSZ17, HQ16, HP15, HL13, Hub13, JGM<sup>+</sup>12, JLZ19a, Kla11, KKN<sup>+</sup>18, KKN19, KT16, KL18b, SAS17, SX12, TAR<sup>+</sup>19, TM18, TP18, WDS14, XZZ19, ZD16, ZCO18, ZYZL20]. **Data-Driven** [BDMS15, ZD16]. **Data-Fidelity** [HL13]. **Datasets** [LS18a, RR15]. **Deblurring** [BAS15, COS09, CTY13, Che14, CvG10, FKLS12, KL18a, LLS<sup>+</sup>13, LEZX14, MYZ13, MRSS08, OV14]. **Decay** [WCU13]. **Decoding** [ISW13]. **Decolorization** [JLN14]. **Decomposition** [AdHW15, AT11, CTWY15, FKLS12, OV14, Sto11, YY13]. **Decompositions** [BGM<sup>+</sup>16, HKBH13, TM18, Tii14]. **Decompression** [BH12, BH15a, BH15b, SYO15]. **Deconvolution** [BR15, BCP13a, Car10, EHB09, GS10, GS13, HH18, JBS17, Mar09, ShDC<sup>+</sup>19, ZBBO10]. **Dedicated** [DAB<sup>+</sup>20]. **Deep** [ALKÖP19, LAZ<sup>+</sup>18, YHC18, YZL<sup>+</sup>18]. **Definite** [CKA17]. **Definition** [Con17]. **Deflection** [SJD<sup>+</sup>15]. **Deformable** [BGH18]. **Deformation** [ADK15, SY14, SWGL15]. **Deformations** [CÖ18, LL14, Wol09]. **Deforming** [SMSY11]. **Degeneration** [SZGW18]. **Degree** [Lip14]. **Dehazing** [FLZ14, GVCPB15]. **Denoising** [All09, BLSW14, BL14b, BLC10, DPN18, ET18, FPM17, FLZ14, FQXC17, HMZZ19, HBD18, KYW13, KSS19, LMSY13, LMM17, LNPS17, LBM13, MGKR15, RE15, REM17, SSN09, TM16a, WSL13, WM13, Wan16a, ZC12, All08]. **Dense** [JDA<sup>+</sup>19, KGC11, Lin18]. **Densities** [BGM14]. **Density** [BJM15, BWB14, CFdGK09, CCKW14, CKA17, CR18, MJC<sup>+</sup>19]. **Density-Equalizing** [CR18]. **Dependent** [BDM15, BMPT16, TBKF15]. **Depth** [BP14]. **Derivative** [ABG<sup>+</sup>13c, PYW<sup>+</sup>14, Wah15]. **Derivatives** [BB14]. **Descent** [HPZ16, HH18, RNH19, VF13, XY13]. **Descent-Based** [VF13]. **Description** [Nik13]. **Descriptors** [DL18a, DL18b, SCM<sup>+</sup>12]. **Design** [CCR<sup>+</sup>12, GPB17, GS16, HP17, KSZ12, LWY16, SN11, ZLD<sup>+</sup>18]. **Designs** [CW18]. **Detail** [FPM17, GQY14]. **Detail-Preserving** [GQY14]. **Details** [ARYZ18a, ARYZ18b]. **Detectable** [HQ16]. **Detection** [BPT11, BP14, BMW09, DKP09, Dro14, FH11, GBFA10, GBFA12, HNAC<sup>+</sup>15, LRP17, LWY16, Mah12, PYW<sup>+</sup>14, PCP<sup>+</sup>16, RK19, SDA15, WY10, WFBFA11]. **Detectors** [ES15, JM16, PFA<sup>+</sup>19, ROD15, SRG10]. **Determination** [KHD<sup>+</sup>15, SS11, WSW13]. **Deterministic** [NDM<sup>+</sup>11]. **Deviations** [LSZ18, WSW13]. **Device** [LWY16]. **Devil** [FPM17]. **Dictionaries** [ADD12, FF13]. **Dictionary** [AE08, BKBD16, LLS<sup>+</sup>13, LGCWY18, SHB<sup>+</sup>18, SHVC19, SUFU20, XZC<sup>+</sup>12]. **Dielectric** [BL14a]. **Diffeomorphic**

[ADK15, AMY16, ARY10, BJM15, CT13, CÖ18, MB15, MB16, Sdi13].

**Diffeomorphism** [GDT18].

**Diffeomorphism-Based** [GDT18].

**Difference** [CLL11, LZOX15]. **Differences** [BLSW14, HP17, TSG<sup>+</sup>11]. **Different** [DAMM12, Her19]. **Differentiable** [AGSW16]. **Differential** [AT11, MTWB14]. **Differentiation** [Bel13]. **Diffraction** [HLST15]. **Diffusion** [BCGR14, Car10, CDHS13, FQXC17, FFA11, GPB17, GKL13, HR15, QYW10, SHVC19, StTBRV12, SZGW18, SSN09, VBK13, YGS<sup>+</sup>19]. **Digital** [ALKÖP19, CNS10, KSZ12, SG15, Zhu16]. **Dimensional** [PYAC13, LDCG14]. **Dimensional** [AM16, CDRS16, CvG10, DGH11, Dar15, EKOÁ10, FR14, Gri10, HCCS20, HBD18, KGV14, KL19, KT16, LR18, LdGKW19, Lou08, MWBB12, OSZ17, SS11, SW13, SUFU20, TMP13, WCN<sup>+</sup>19, Wol09, YCU19, LR17]. **Dimensions** [BGM14, BLM14, BG15, BGG17, FST20].

**Dipoles** [CV17]. **Direct** [ACI08, CH16, DMTZ16, JLZ19a, LZZ18, MTWB14, XZZ19]. **Directed** [WFBFA11]. **Direction** [BMPT16, CYY11, CTY13, CEM19, GOSB14, OCLP15, SS12, YPC17]. **Direction-** [BMPT16]. **Directional** [CY09, HMZZ19, LCS<sup>+</sup>16, PMS20, Sto11, WT13]. **Directionality** [HZ14]. **Directions** [SW13]. **Discrepancies** [CDS17]. **Discrepancy** [LLSV14]. **Discrete** [BER15, Con17, ERS18, FPPA14, GLR18, HR15, MC16, NPS18, RLS18, RW13, SWGL15, WkZ14, WDCT09]. **Discretization** [KK17, WR14]. **Dispersed** [Ish14]. **Dispersed-Dot** [Ish14]. **Displacement** [BI15, HSNS18]. **Dissipative** [NK16]. **Distance** [LZ17a, Mär11, VF14]. **Distances** [CAT08, DAMM12, MD15, NS17, ZvDT<sup>+</sup>17]. **Distortion** [SCGAF<sup>+</sup>15]. **Distributed** [AC12, WY12]. **Distribution** [CDH16, DHSS13, DPC13, HSSP09, PYA<sup>+</sup>12]. **Distribution-Based** [PYA<sup>+</sup>12].

**Distributions** [CKA17, LS19, MPL<sup>+</sup>18, SNDP13]. **Dithering** [TSG<sup>+</sup>11]. **Divergence** [PS11]. **Diverse** [CB11]. **Diversity** [PFS10]. **Division** [SCGAF<sup>+</sup>15]. **Document** [BGG19, MPGMD19]. **Domain** [ABK15, CTWY15, EHB09, KZ15, LZ16, WZ17, ZD16, ZDL18]. **Domains** [APST19, CYY11, CB18, Gri10, HP15, RBLS14, Wol09]. **Dot** [Ish14]. **Double** [GLS18]. **Douglas** [ACL16, BPS16]. **Douglas-Rachford** [BPS16]. **Driven** [BDMS15, FFA11, ZD16]. **Dual** [CTWY15, CY09, CGN<sup>+</sup>13, CP16, DHN09, EZC10, Gol11, HY12, HYY14, KZ15, LP19, MSMC15, OV14, ST11, WT10]. **Dual-Domain** [KZ15]. **Dyadic** [AdHW15]. **Dynamic** [AARW19, BP18, CV13, HQ16, TA14]. **Dynamical** [STCB13]. **Dynamics** [HSH13].

**Earth** [Tsy09a]. **Echo** [FA09]. **Echo-Based** [FA09]. **Echolocation** [ATW14]. **Edge** [BPG08, GY12, GL13, KGB15, Mah12, PYW<sup>+</sup>14, RK19, SRG10, YYZW09]. **Edge-Matching** [KGB15]. **Edge-Preserving** [YYZW09]. **Edges** [BMW09, DB13, GL09, HNAC<sup>+</sup>15]. **Editor** [Sap08]. **Editor-in-Chief** [Sap08]. **Effect** [ADK15, ES15]. **Effective** [YK16]. **Effects** [DD10, KSPR17]. **Efficient** [ACN16, BG14, CWR19, DHN09, DMP18, Fou10, GL17, HHMT16, HDH16, JDA<sup>+</sup>19, Lan19, NDM<sup>+</sup>11, NNZC08, QSUZ11, RB15, RDSK09, SZW14]. **Efficiently** [PKCS18]. **Eigenfunctions** [AGP18]. **Eigenmap** [LZ17a]. **Eigenvalues** [GPB17]. **Eigenvectors** [SS11, SZSH11]. **Eikonal** [GLQ15]. **Elastic** [ACI08, DLL19, HLLS14, LLS19, MPM<sup>+</sup>17, NK20, RW09, YJL<sup>+</sup>17]. **Elastica** [DGT19, RLS18, THC11, YK16]. **Elasticity** [ABG<sup>+</sup>13c, OGL15]. **Elastography** [BI15]. **Electric** [ABG13a, HHR08, RB18]. **Electrical**

[AAJ<sup>+</sup>16, AM16, AKLS17, DHSS13, GH18, Gri10, HRSZ16, PAM12, SAS17, WR14].  
**Electrolocation** [ABG13a].  
**Electromagnetic** [BLM14, CH16, LN13, LLW13, Wah15].  
**Electromagnetism** [LR17, LR18].  
**Electron** [Kla11, SZSH11]. **Element** [BGH18]. **Ellipses** [CF18]. **Ellipsoid** [LWM<sup>+</sup>18]. **Elliptic** [AB10]. **Ellipticity** [AZ13]. **Empirical** [GTO14]. **Endowed** [MCL16]. **Energy** [CvG10, DL14, DB13, Ish14, SSSW09, BS09].  
**Engine** [REM17]. **Enhanced** [GVCPB15].  
**Enhancement** [GM10, GKL13, HSY20, WN13b].  
**Enhancing** [GM15, HR15, LHB<sup>+</sup>18].  
**Ensembles** [GDT18]. **Ensuring** [NL10].  
**Entropic** [EHL17, Pey15]. **Entropy** [MPGMD19]. **Entropy-Based** [MPGMD19].  
**Enumeration** [LWM<sup>+</sup>18]. **Equalization** [WN13b]. **Equalizing** [CR18]. **Equation** [BS15, CFM15, Hub13, MPM<sup>+</sup>17].  
**Equations** [AT11, Car10, Dar15, GKL13, MS17, STV09, YGS<sup>+</sup>19]. **Equilibrium** [BCSB18]. **Erratum** [GBFA12, SBFA16].  
**Esedoglu** [CFM15]. **Essential** [TD17].  
**Estimating** [AGP18]. **Estimation** [ADK15, BGV09, BCP13b, BDS18, CDH16, CGÖ19, CKA17, CN17, CLMT15, DSYT10, DAMM12, DPC13, DATP17, FA09, FFA11, GPST13, HSNS18, KSZ11, KKS15, KBW13, Lan19, LS19, LHB<sup>+</sup>18, MHP17, ÖSB15, Per17, Per19, SCGAF<sup>+</sup>15, SS12, SY14, SDA15]. **estimator** [DVFP14]. **Euclidean** [ZCO18]. **Euler** [DGT19, HP11, RLS18, THC11, YK16].  
**Even** [BHV12]. **Evolution** [BG14, SV08].  
**Evolving** [Lan19]. **Exact** [CJPT15, JM16, LSZ18, SBFA15, SBFA16, YY19]. **Example** [LRP17]. **Examples** [All08, All09].  
**Exchangeable** [FH11]. **Exemplar** [CGMP11]. **Exemplar-Based** [CGMP11].  
**Existence** [ERS18]. **Expansion** [FH15].  
**Expansions** [RLL14]. **Expectation** [LLSZ09, LM13].  
**Expectation-Maximization** [LLSZ09].  
**Experimental** [KKN<sup>+</sup>18, KKN19, SN11, TBKF15].  
**Experiments** [GPB17, LM13, SWGL15].  
**Explicit** [HLST15]. **Exposures** [RVCB19].  
**Expression** [DL14]. **Extended** [AGK<sup>+</sup>12, BPG08, GM10, LDS20, LLS19, TMP13, TMP18].  
**Extended-Sampling-Bayesian** [LDS20].  
**Extending** [Naj17]. **Exterior** [SM16].  
**Extraction** [ALKÖP19, BAA14, WLTC12, YPC17].  
**Extrapolation** [ERS18, RDSK09].  
**Extremal** [MCL16].  
**Fabric** [NNYZ17]. **Fabry** [Aco19]. **Faces** [LRP17]. **Facet** [LWM<sup>+</sup>18]. **Facial** [HKBH13]. **Factor** [AKZ13]. **Factorization** [GS17, LN13, LWM<sup>+</sup>18, PKCS18, TV20, XY13]. **Fading** [FSY09]. **Family** [AZ13, RLL14]. **Far** [DLL19, GS17, HLLS14, JLZ19a, JLZ19b, LLW13]. **Far-Field** [DLL19, HLLS14, LLW13]. **Faraday** [KK17].  
**Fast** [AB10, ACN16, BT09, BBC11, BAA14, BAS15, BGP<sup>+</sup>17, BKSW14, CTY13, CHH<sup>+</sup>12, FLZ14, FGPT17, GS13, GOSB14, HPPZ19, IVW16, KBW13, LO17, LY12, LP19, SAS17, SW14, THC11, TM18, YYZW09, YK16, Zhu16, CLL15]. **Faster** [FK10]. **Fatemi** [CTWY15, LP19, NPJ117].  
**Fatness** [AKLS17]. **Feasibility** [LSW14].  
**Feature** [DB10, FH15, MCL16, PFA<sup>+</sup>19, ROD15, Rig17, WLTC12].  
**Feature-Endowed** [MCL16].  
**Feature-Preserving** [DB10]. **Features** [DGH11, Far19, RDG09]. **Few** [OJ16].  
**Fiber** [CDH16]. **Fidelity** [HL13, WZYX13].  
**Fidelity-Beltrami-Sparsity** [WZYX13].  
**Field** [BL14a, Bat10, DLLY17, DLL19, FA09, Fou10, GS17, HLLS14, HSNS18, JLZ19a, JLZ19b, LLW13, MWBK14, NS17, NTDB19, NL10, PCP<sup>+</sup>16, Sdi13, SSSW09, WCA<sup>+</sup>18, XZZ19]. **Fields**



[AC12, CY09, CCFBY13, FW10, Her19, KvD12, NPJI17, PS11]. **Figure** [PYA<sup>+</sup>12]. **Figure-Ground** [PYA<sup>+</sup>12]. **Film** [HMS17]. **Filter** [BHI11, FGPT17, LR16, LM11, Mah12]. **Filtering** [Ang13, Bel13, BPT11, BCMO08, GZC<sup>+</sup>15, KZ15, LS18a, NT11, RDSK09, SMSY11, WDCT09]. **Filters** [LS19, Mil13, SSN09]. **Filtrated** [TV17]. **Finding** [ELX13, PKCS18]. **Fine** [ARYZ18a, ARYZ18b, Dro14]. **Fingerprinting** [DPVW14, DHP19, WE17]. **Finite** [BGH18, CLL11, Dar15, HP17]. **Finite-Difference** [CLL11]. **Finite-Dimensional** [Dar15]. **Finsler** [HSF<sup>+</sup>19]. **First** [BBC11, EZC10, GT15, LGCWY18]. **First-LGCWY18**. **First-Order** [BBC11]. **Fish** [ABG13a]. **Fisher** [VHO20]. **Fitting** [CJK10]. **Flares** [SLS19]. **FLASH** [CLL15]. **Flexible** [CLPS19, CSS08]. **Flicker** [DD10]. **Flicker-Like** [DD10]. **Flickering** [SG15]. **Flow** [BGK15, BMW09, CFSS16, CGTN11, HP11, KGC11, KZ18, PYA<sup>+</sup>12, SXS<sup>+</sup>15, LDCG14, WkZ14, YY19]. **Flows** [ACDG18, AGP18, CMY10, FSV10, Pey15, GWY09]. **Fluctuations** [SSSW09]. **Fluid** [PM08]. **Fluidic** [RW13]. **Fluorescence** [DLW16, RZ13]. **Flutter** [TMR13, TM16b]. **fMRI** [JGM<sup>+</sup>12]. **Focus** [LEZX14]. **Focusing** [ES15]. **Folds** [QLL19]. **Foreground** [YPC17]. **Formal** [GBFA10, GBFA12]. **Formation** [GPPM15]. **Formula** [FAS<sup>+</sup>15]. **Formulas** [Hal11, HF12]. **Formulation** [CTWY15, CBB14]. **formulations** [BS09]. **Forward** [GKL13, HP17, KL18a, MPM<sup>+</sup>17, RFP13, RL15]. **Forward-Adjoint** [MPM<sup>+</sup>17]. **Forward-Backward** [RFP13, RL15]. **Foundation** [WLYU15]. **Fourier** [BCP13a, AGH14, BGV09, GSZ17, KL18b, MJC<sup>+</sup>19, OJ16]. **Fourier-Based** [BCP13a]. **Fourth** [Dro14]. **Fractal** [LVEB09]. **Fractional** [BS15, YGS<sup>+</sup>19, ZC15]. **Fractional-Order** [ZC15]. **Frame** [Bat10, COS09, CCMS13, Che14, CBZ18, LZD<sup>+</sup>16, STY11, TZS13, ZD16]. **Frame-Based** [COS09, Che14, STY11]. **Framelet** [LCS<sup>+</sup>16]. **Framelet-Based** [LCS<sup>+</sup>16]. **Framelets** [HZ14, HMZZ19, YHC18, YGLD17]. **Frames** [GL13, PWSU16]. **Framework** [AKLS17, Bat10, BBHMA17, BT18, BH15a, BH15b, DPVW14, DDGL19, DMSC16, EZC10, Gil14a, GDT18, GSZ17, HSNS18, Lan19, LZ16, LWM<sup>+</sup>18, MY09, Naj17, PABT17, SNM17, TS14, UC13, YHC18, YJL<sup>+</sup>17, ZLD<sup>+</sup>18, ZTO15]. **Fréchet** [DATP17]. **Fredholm** [CCBB14]. **Free** [BCSB18, FH11, Rig17]. **Frequency** [BGPS17, BPT11, BMPT16, BG15, FPM17, LS17, PS19]. **Frequency-Dependent** [BMPT16]. **Frobenius** [CHM13]. **Full** [EGvL<sup>+</sup>18]. **Full-Waveform** [EGvL<sup>+</sup>18]. **Fully** [MY09]. **Function** [BHI11, DAMM12, HP15, Mah12, NS17, NL10, SDA15, WCN<sup>+</sup>19]. **Functionals** [ABG<sup>+</sup>13c, AGP18, BPS16, BGM<sup>+</sup>16, HK14, KR13, WH15]. **Functions** [AL15, CG19, HSSP09, LO17, Mär11, TSG<sup>+</sup>11, ZCO18]. **Fundamental** [LLLX17]. **Fusion** [DBCS14, HBM12, KZS14]. **Fuzzy** [LNZS10].

**Galaxy** [AZ13]. **Gamma** [AC12, CYZ14, WCA<sup>+</sup>18]. **Gauge** [KvD12]. **Gaussian** [DD13, CHPS09, CKA17, CJPT15, DPN18, GL17, GPB17, WM13, XFPA14, Yan13]. **Gaussian-Impulse** [DD13]. **GCV** [GS13]. **Gene** [DL14]. **General** [DMSC16, EHB09, EZC10, KK08, LO17, NK20, SHS10, YHC18]. **Generalization** [BHS09, YY19]. **Generalizations** [LSW14, Yin10]. **Generalized** [ABG<sup>+</sup>13b, APST19, AH17, BS09, BKP10, BHSW18, CDHS13, Che14, CLMT15,

DPN18, GB18, KR17, LHW<sup>+</sup>15, LLC14, RFP13, RL15, SSSW09, VBK13, WLYU15].

**Generation** [ADGM14, AC12, BCC<sup>+</sup>16, DAB<sup>+</sup>20].

**Generic** [RZ15]. **Genus** [CLL15, CHL16, LW14]. **Genus-Geodesic** [CLL15, CHL16]. **Geodesic** [BER15, CKL17, Mon14, RW13, StTBRV12, SV08, YCU19]. **Geodesics** [BDMS15, FN17, KN14, NPV16, NPS18, ZBO14]. **Geometric** [ACDG18, BGL13, DSYT10, DGH11, DB10, FH15, GSC12, HMS17, HSÅS18, LW14, SMSY11, SNB13]. **Geometrically** [CGMP11]. **Geometries** [BAA14].

**Geometry** [AKR13, CLMT15, HSF<sup>+</sup>19, LPP<sup>+</sup>09].

**Gesture** [LWY16]. **Gesture-Based** [LWY16]. **Gillette** [CFM15]. **Ginzburg** [DB13]. **Global** [CK09, EKOÅ10, KGB15, Nik13, NL10, PCBC10, SHVC19, TM16a].

**Globally** [CMLZ18, LY13, TBKF15]. **GPU** [ACN16, HMS17]. **GrAdient** [DVFP14, ABR10, CMY10, CZ10, Dro14, HPZ11, HYY14, HPZ16, LAZ<sup>+</sup>18, MSMC15, Pey15, RLS18, STY11, TV20].

**Gradient-Based** [HPZ11, LAZ<sup>+</sup>18].

**Gradients** [KD12, NW13b]. **Grain** [HSSP09]. **Graph** [BT18, EHL17, LS18a].

**Graphical** [HSÅS18]. **Graphs** [CE12, CGN<sup>+</sup>13, ETT15, HFE19, KSS19, LO17, MKB13, RL15, SDM17]. **Gravity** [HQ19]. **Grayvalue** [BHS09]. **Greedy** [PG19]. **Green** [Mah12]. **Grid** [CDP19, Fou10, OJ16]. **Grids** [FL12, SC10].

**Ground** [PYA<sup>+</sup>12]. **Group** [GSXH18].

**Groups** [ZBO14]. **Guarantees** [KBW13, RB15]. **Guided** [CGMP11, EB16, FL12, GY12, HMS17, WM13]. **Guidefill** [HMS17].

**Haar** [CSS08, LCS<sup>+</sup>16]. **Haar-Wavelet** [CSS08]. **Hadamard** [BPS16]. **Half** [RZ15, RYZ18]. **Half-Quadratic** [RZ15, RYZ18]. **Halftoning** [Ish14].

**Hamilton** [Dar15]. **Hard** [GLS20].

**Harmonic** [AGM14, ALKÖP19, BCD19, GWY09, CLL15]. **HDMI** [HBD18]. **HDR** [ADGM14, RVCB19]. **Head** [BP14]. **Heavy** [BPT11]. **Helmholtz** [FH11]. **Hessian** [LPSS15, WE17]. **Heterogeneity** [KKS15].

**Heterogeneous** [HLST15, MQLC16, PCP<sup>+</sup>16]. **Hidden** [HLKH14]. **Hierarchical** [JGM<sup>+</sup>12]. **High** [BG20, BGG17, BLC10, FPM17, FPT20, HBD18, LW14, MWBB12, PYAC13, PAM12, TA14, WZ17, WT10]. **High-Dimension** [PYAC13]. **High-Dimensional** [HBD18].

**High-Genus** [LW14]. **High-Order** [FPT20, PAM12]. **High-Resolution** [BG20].

**High-Speed** [WZ17]. **Higher** [DB10, FQC16, JDA<sup>+</sup>19, JK15, PMS20, QYW10, SNDP13, SRG10]. **Higher-Order** [DB10, FQC16, JDA<sup>+</sup>19, JK15, PMS20, SNDP13]. **Highly** [Far19, SAS17]. **Hilliard** [BKSW14, BS15, BHS09, CFM15, GLS18].

**Hippocampal** [WLTC12]. **Histogram** [SS13, WN13b]. **Holography** [AGM14, CDSV18]. **Homodyned** [DPC13].

**Homogeneous** [AGP18, BGM<sup>+</sup>16, SDA15]. **Homography** [LLLX17]. **Horn** [LDCG14].

**Hough** [BMP13]. **Hubble** [Car10]. **Human** [BCGR14]. **Hybrid** [HRSZ16, HYY14, MSMC15, RGZ13, ZZ19].

**Hyperbolic** [DMTZ16]. **Hyperfields** [GTU14]. **Hypermodels** [CHPS09].

**Hyperspectral** [RKT<sup>+</sup>13, ShDC<sup>+</sup>19, XZC<sup>+</sup>12].

**Hypersurfaces** [BHM12]. **Hypoelliptic** [BCGR14]. **Hypothesis** [Dem09].

**Identifiability** [BR15]. **Identification** [AB10, ATW14, CJ12, GM15, HK19, LQS14, SNM17]. **II** [All08, ARYZ18b, BH15b, DGH11, LR18, LHW<sup>+</sup>15, NW13b]. **III** [All09]. **III** [KR13, RNH19, SKJ<sup>+</sup>19].

**Ill-Posed** [KR13, RNH19, SKJ<sup>+</sup>19].

**Illumination** [BPG08, DGH11, NMP15, SG15, WFBFA11].

**Illusory** [KZS14]. **Image**

[AC09, ADGM14, AE08, All09, AT11, ABR10, ADD12, BGH18, Bat10, BB14, Bel13, BG14, BL14b, BAS15, BC15, BDM15, BCP13a, BH15a, BH15b, BDS18, COS09, CCZ13, CLPS19, CMY10, CCBR13, CLK14, CLL11, CYY11, CYZ14, CPP09, CZ10, CHH<sup>+</sup>12, Che14, CÖ18, CGÖ19, CLY19, CJPT13, CJPT15, CFSS16, CG19, DGH11, DPSV17, DPN18, DD10, DGT19, DL18b, DB13, DHN09, DGJS16, DBCS14, EHB09, ERS18, ETT15, FPT20, FLZ14, FF13, FQC16, FQXC17, FFA11, FKLS12, FRV18, GVCBP15, GSXH18, Get11, Gol11, GKL13, GL13, GSZ17, HBFA14, HP11, HMZZ19, HBM12, HHK<sup>+</sup>18, HW13, HL13, HK14, HBD18, HSÅS18, JNW19, JLN14, JK15, KD12, KGV14, KvD18, KL18a, KRW10, KT16, KSPR17, KZ18, LS18a, LMSY13, LMSS19, LBM12, LLBS14, LNZZ10, LZ16, LLS<sup>+</sup>13, LZ17b, LR16]. **Image**

[LZOX15, Lou08, LY18, MYZ13, MB15, MB16, MS17, Mär11, MKB13, MY09, MRSS08, MPGMD19, MGKR15, Nat16, NW13a, NPS18, NW13b, NPJI17, OV14, OSZ17, PM08, PAB<sup>+</sup>15, PV14, RLS18, RZ15, RDM18, RE15, RDSK09, STY11, SZGW18, SDA15, SS13, TZS13, TPG16, TM12, Tii14, VZE16, VSU15, VF13, VF14, WYYZ08, WZYX13, WSL13, WM13, WN13a, WN13b, YYZW09, YK16, YGLD17, ZWJ19, ZD16, ZC15, ZBN17, ZDL18, ZYZL20, ZC12, Zhu16, All08, BS09, MSKL09].

**Image-Driven** [FFA11].

**Image-Signature-Dictionary** [AE08].

**Image/Video** [Zhu16]. **Imagery**

[Car10, WY17]. **Images**

[AC12, BHI11, BPS16, BER15, BGL13, BP14, BHS09, CC14, CYZ14, CBB14, DDGL19, Dem09, DZ13, FBU15, FAS<sup>+</sup>15, GB18, GBFA10, HSY20, KT14, LVEB09, LS17, LY12, LNPS17, MWBB12, MB10, NPS18, NTDB19, NDM<sup>+</sup>11, NNZC08, OJ16, PCCP19, PCP<sup>+</sup>16, SDZ15, SM16, SZSH11,

SW14, SG15, WSW13, Wan16b, WCA<sup>+</sup>18, XZC<sup>+</sup>12, Yan13, YGS<sup>+</sup>19, YCF<sup>+</sup>16, BGV09, GBFA12]. **Imaging**

[AARW19, ACI08, AAB<sup>+</sup>11, AGK<sup>+</sup>12, ABG<sup>+</sup>13c, AGM14, AdHW15, ACL16, BR15, BGM14, BL14a, BV16, BPG08, BPT11, BCP13b, BK15, BMPT16, BK17, BGP<sup>+</sup>17, BK18, BG20, BCC<sup>+</sup>16, BCMO08, CCMS13, CFdGK09, CDRS16, CV17, CMP14, CHH<sup>+</sup>12, CDHS13, CH16, CGÖ19, CK09, Dar15, DFM<sup>+</sup>12, DLLY17, DHP19, Dro14, DMZ18, ES15, EZC10, Fan09, FSY09, FGPT17, GP09, GPST13, GP14, GP15, GPST15, GPB17, GT15, GPPM15, GH15, GM10, GY12, GS16, HLST15, HP17, KK17, KL18b, LKR18, LKW<sup>+</sup>19, LLSV14, LY15, LCS<sup>+</sup>16, LZZ18, MNP16, MNPT17, MB10, Mui09, NMP15, PPE<sup>+</sup>09, QYW10, RKT<sup>+</sup>13, RB15, RPW19, RVCB19, Sap10, SLS19, StTBRV12, ST11, SSSW09, ShDC<sup>+</sup>19, SDR20, SJD<sup>+</sup>15, SG15, TM18, TBKF15, TA14, TMP13, TMP18, Tsy09a, Tsy09b, VBK13, Voc15, WY12, WY14, XZZ19].

**Impact** [RVCB19]. **Impedance**

[AAJ<sup>+</sup>16, AM16, AKLS17, DHSS13, GH18, Gri10, GH15, HRSZ16, HHR08, PAM12, SAS17, WR14]. **Imperfect** [KL18a].

**Implementation** [LHW<sup>+</sup>15, Mon14].

**Implementations** [ACN16]. **Implicit**

[Bel13, Fou10, HLST15]. **Implicit-Explicit**

[HLST15]. **Improper** [CAT08]. **Improved**

[BAS15, SRG10]. **Improvement** [CBB14].

**Impulse**

[DD13, MYZ13, Yan13, ZWJ19, ZBN17].

**Impulsive** [CJ12]. **In-Line** [CDSV18].

**Incidence** [BZ18, BG15]. **Incident** [LLS19].

**Inclusion** [ACI08, HHMT16]. **Inclusions**

[BLM14, Gri10, Wah15, YJL<sup>+</sup>17].

**Incompatibility** [BCD19]. **Incomplete**

[BFJQ18, CCBB14, XZC<sup>+</sup>12].

**Incompressible** [HLKH14, Wol09].

**Increasing** [HZ14]. **Incremental**

[WMT<sup>+</sup>09]. **Independently** [GOF16].

**Indicator** [AL15]. **Indirect** [CÖ18].

**Inducing** [LMSS19]. **Induction** [QS15].  
**Industrial** [ShDC<sup>+</sup>19]. **Inequalities**  
 [ACSW12, LLBS14]. **Inertial**  
 [CCMY15, OCBP14, PS16]. **Inexact**  
 [MB15, RYZ18]. **Inf** [BP18].  
**Inf-Convolution** [BP18]. **Inference**  
 [LAZ<sup>+</sup>18, SN11, ZYZL20]. **Infimal**  
 [CDS17, GB18, HK14]. **Infinite**  
 [BL14a, BZ18]. **Influence** [SM16].  
**Information**  
 [AM16, BJM15, CH16, KLS<sup>+</sup>17, VHO20].  
**Information-Theoretic** [KLS<sup>+</sup>17].  
**Inhomogeneous** [QYZ19]. **Initial**  
 [MPL<sup>+</sup>18]. **Inpainting**  
 [BKSW14, BS15, BHS09, CGMP11, CSS08,  
 CYY11, GL17, GLS18, GK14, HP11,  
 HMZZ19, HMS17, LZ16, Mär11, NAF<sup>+</sup>14,  
 WSL13, Yan13, YK16, ZCO18]. **Input**  
 [LWY16]. **Inscribed** [LWM<sup>+</sup>18].  
**Inspection** [NNYZ17]. **Inspired**  
 [CCR<sup>+</sup>12, NPS18]. **Instance** [SZW14].  
**Instantaneous** [MB10]. **Instruction**  
 [LWY16]. **Instruction/Input** [LWY16].  
**Integrability** [CHM13, Tii14]. **Integral**  
 [CCBB14, FGS12]. **Integrals** [OAUC<sup>+</sup>20].  
**Integrated** [DHP19]. **Integro** [AT11].  
**Integro-Differential** [AT11]. **Intended**  
 [MB10]. **Intensity** [BMW09, DPC13, KT14,  
 KSPR17, LL14, LY12, MNPT17, NMP15].  
**Intensity-Based** [LL14]. **Intensity-Only**  
 [MNPT17, NMP15]. **Interaction**  
 [ARYZ18b]. **Interactions** [NL10].  
**Interactive** [PABT17]. **Interest** [SNB13].  
**Interferometric** [BG20, MNPT17, YY19].  
**Interferometry** [MJC<sup>+</sup>19]. **Interior**  
 [HHK<sup>+</sup>18, LHW<sup>+</sup>15, SZGW18, WLYU15].  
**Interior-Point** [HHK<sup>+</sup>18]. **Internal**  
 [QYZ19]. **Interpolated** [SM16].  
**Interpolation**  
 [CLK14, CF18, Get11, KD12, Sdi13].  
**Interpolations** [ZCO18]. **Interpretation**  
 [SO13, SSN09]. **Interslice** [Sdi13]. **Intrinsic**  
 [ST19, WLTC12]. **Invariance** [WFBFA11].  
**Invariant** [AKR13, KSS19, KZ18, LZ17a,  
 LLLX17, MY09, RR15, RDM18, SCM<sup>+</sup>12,  
 VSU15, ZBO14]. **Invariants**  
 [FGS12, OAUC<sup>+</sup>20]. **Inverse**  
 [AKM11, AAJ<sup>+</sup>16, BZ18, BT09, BG15,  
 BGG17, Che14, CPW<sup>+</sup>14, CJT<sup>+</sup>12, DLL19,  
 GLS20, GS17, Han12, HP17, HLLS14, HQ19,  
 HSNS18, JLZ19a, KR17, KKN<sup>+</sup>18, KKN19,  
 LR17, LR18, LN13, LH18, LDS20, LS18b,  
 LZZ18, LLS19, Mar09, QYZ19, RPW19,  
 RYZ18, SKJ<sup>+</sup>19, SO08, TBKF15, VZE16,  
 WZYX13, XZZ19, YHC18]. **Inversion**  
 [DLW16, DMTZ16, EGvL<sup>+</sup>18, Hal11, JM16,  
 Mon14, MH17, YY15, YCU19, YY19].  
**Invertibility** [SCGAF<sup>+</sup>15, Sdi13].  
**Ionosphere** [Tsy09a]. **iPALM** [PS16].  
**iPiano** [OCBP14]. **Isometric**  
 [ST19, Wol09]. **Isometry** [BH17]. **Isotropic**  
 [GPB17, LZOX15]. **Issues** [RVCB19].  
**Iterated** [BHI11]. **Iteration** [LH18, WT10].  
**Iterations** [COS09, KR17]. **Iterative**  
 [BT09, BAS15, CLK14, CPP09, GLS20,  
 HN17, LR18, WY10, YOGD08]. **Iteratively**  
 [ODBP15].  
**Jacobi** [Dar15, LP19]. **Joint**  
 [BDS18, CGÖ19, CLY19, CBZ18, DSYT10,  
 DL18a, DAB<sup>+</sup>20, DLW16, JHSX11, JBS17,  
 MPL<sup>+</sup>18, OGL15, YJL<sup>+</sup>17, ZDL18]. **JPEG**  
 [BH12]. **Junctions** [BG14].  
**Kaczmarz** [LZ18, LH18]. **Kalman**  
 [GZC<sup>+</sup>15]. **Kantorovich**  
 [HQ19, LLSV14, MSKL09]. **KDE** [FK10].  
**Kendall** [SUFU20]. **Kernel**  
 [ACSW12, CKA17, RLL14, RG16].  
**Kernel-Based** [ACSW12]. **Kernels**  
 [FSV10]. **Kirchhoff** [DL14]. **Knowledge**  
 [FGS12, KZ14]. **Known** [KT14]. **Krylov**  
 [Her19, MB15, YY17].  
**Labeling** [GSC13, HSÅS18, LAZ<sup>+</sup>18, LS11].  
**Lagrangian**  
 [LLS<sup>+</sup>13, MGKR15, THC11, WT10].  
**Lagrangian-Based** [LLS<sup>+</sup>13]. **Lambertian**

[CT17]. **Lamé** [HSNS18]. **Landau** [DB13]. **Landmark** [CKL17, CLL15, LL14, LTW<sup>+</sup>10, LLYG14, MS17]. **Landmark-LL14**. **Landmarks** [MMM12]. **Langevin** [DMP18, MS17]. **Laplace** [LZ17a]. **Laplacian** [ETT15, HFE19, LS18a]. **Large** [CÓ18, FR14, FD20, HPZ16, LL14, LKW<sup>+</sup>19, SN11, WE17]. **Large-Scale** [FD20, HPZ16, LKW<sup>+</sup>19, WE17]. **Larger** [HMY16]. **Lattice** [HK19, NNYZ17, NTDB19]. **Lattice-Based** [NNYZ17]. **Law** [KK17]. **Laws** [Lan19, SV08]. **Layered** [GS10]. **Layover** [WY17]. **LDDMM** [Her19, SNDP13]. **Learn** [LO17]. **Learning** [BKBD16, KP13, LZ18, LGCWY18, NS17, PFS10, SHB<sup>+</sup>18, SHVC19, ST19, SKJ<sup>+</sup>19, SUFU20, XZC<sup>+</sup>12, YHC18]. **Learning-Based** [SKJ<sup>+</sup>19]. **LEAst** [DPSV17, ELX13, LSZ18, LS18b, Nik13, SBFA15, SBFA16, WSW13]. **LEAst-Square** [DPSV17]. **Left** [ZBO14]. **Left-Invariant** [ZBO14]. **Length** [WMT<sup>+</sup>09]. **Lens** [GS16, SCGAF<sup>+</sup>15]. **Level** [AKM11, ACDG18, EST20, FPT20, GB11, KYW13, KBW13, LAZ<sup>+</sup>18, RGLB14, SV08, SDA15, WFBFA11]. **Level-Set** [FPT20, SV08]. **Level-Set-based** [RGLB14]. **Levels** [BH17]. **Lidar** [TAR<sup>+</sup>19]. **Lifted** [KMDL19]. **Lifting** [BR15]. **Light** [HSY20, KZ14, MWBK14, SJD<sup>+</sup>15, WFBFA11]. **Like** [DD10, DL18b, Kla11, Lan19, MD15, BPS16]. **Likelihood** [CJPT15]. **Likely** [KSPR17]. **Limited** [AAB<sup>+</sup>11, AH17, Her19, Kla11, KRW10, LDS20, SM16]. **Limited-View** [AAB<sup>+</sup>11]. **Limiting** [HVW15]. **Limits** [HFE19]. **Line** [CDSV18, HF12, JM16, KGC11]. **Linear** [AL15, ACL16, AH17, BT09, BCMO08, DLLY17, FAS<sup>+</sup>15, KR13, LS18b, RNH19, RYZ18, STCB13, SN11, SZGW18, WSL13]. **Linearization** [BG17]. **Linearized** [AAJ<sup>+</sup>16, COS09, Che14, LSW14, OCLP15, PS16, Yin10]. **Linearly** [BC15, CCMY15, LY13]. **Lines** [PCCP19, SS11, WFBFA11, ZCO18]. **Linking** [KZ18]. **Lipschitz** [BC15, ZWJ19]. **Lithography** [CJT<sup>+</sup>12]. **Little** [REM17]. **Lobe** [MQLC16]. **Local** [ACL16, BHM12, CFdGK09, DGH11, DD10, DLLY17, FH15, IVW16, KSZ11, KvD18, LLSZ09, LM11, RDG09, YGLD17, ZTO15]. **Local-Nonlocal** [YGLD17]. **Localization** [ABG<sup>+</sup>13c, CHPS09, ST19, Wah15, WCN<sup>+</sup>19]. **Localized** [CMP14, Far19, LS17]. **Locally** [MAP11, SNDP13, WSL13, XZZ19]. **Locating** [LLW13]. **Location** [LSZ18]. **Log** [DPC13, Per19, RB18]. **Log-Concave** [Per19]. **Log-Conductivity** [RB18]. **Log-Moments** [DPC13]. **Logarithmic** [Car10, CFM15]. **Long** [HNAC<sup>+</sup>15]. **Loss** [TPG16]. **Low** [CDP19, HSY20, JHSX11, NNYZ17, OSZ17, PKCS18, SO13, ZN19]. **Low-Light** [HSY20]. **Low-Rank** [CDP19, NNYZ17, PKCS18, ZN19]. **Luminance** [PAB<sup>+</sup>15]. **Luminance-Chrominance** [PAB<sup>+</sup>15]. **Lung** [SKJ<sup>+</sup>19]. **MacAdam** [CF18]. **MAGMA** [HPZ16]. **Magnetic** [BCC<sup>+</sup>16, DPVW14, DHP19, HCCS20, LCS<sup>+</sup>16, QS15, RB15, SAS17, WE17, GH18]. **Magnetoacoustic** [QS15]. **Majorization** [GM18]. **Majorize** [CJPT13]. **Majorize-Minimize** [CJPT13]. **Malik** [GKL13]. **Manhattan** [BAA14]. **Manifold** [BT18, BHSW18, EHL17, HH18, LNPS17, NPS18, OSZ17, ST19, TD17, WDS14]. **Manifold-Valued** [BT18, BHSW18, LNPS17, NPS18, WDS14]. **Manifolds** [AGSW16, BGK15, BPS16, CC14, FAS<sup>+</sup>15, MMM12, SHS10, YLLY19]. **Many** [BH17]. **Map** [LLWG13, LLYG14]. **Mapped** [CBB14]. **Mapping** [AKZ13, BCD19, CPW<sup>+</sup>14, DL14, LPP<sup>+</sup>09, LLLX17, LLYG14, Nat16, PUW17, Pal16].

**Mapping-Adaptive** [LLLX17]. **Mappings** [Lip14, MCL16]. **Maps** [CR18, LL14, SJD<sup>+</sup>15, WkZ14]. **Marching** [BGPS17, BAA14]. **Markov** [CCFBY13, DMP18, PCP<sup>+</sup>16, WCA<sup>+</sup>18]. **Mask** [BR15]. **Mass** [CLC13, KR17, Lan19]. **Match** [CLC13]. **Matched** [FGPT17]. **Matched-Filter** [FGPT17]. **Matches** [SMA11]. **Matching** [BJM15, BF15, CKL17, CLC13, FH15, Far19, KGB15, LLLX17, LTW<sup>+</sup>10, LLYG14, NT11, RDG09, RG16, SNB13]. **Material** [DL14, MQLC16, NS14]. **Materials** [HSSP09]. **Mathematical** [AKLS17, GT15, LWY16, WLYU15]. **Matrices** [CV13, CKA17, GPB17, TD17]. **Matrix** [CESV13, JHSX11, KKS15, LWM<sup>+</sup>18, PKCS18, TV20, VHO20, WT13]. **Max** [PYA<sup>+</sup>12]. **Max-Flow** [PYA<sup>+</sup>12]. **Maximization** [JLN14, LLSZ09]. **Maximum** [CGTN11, LWM<sup>+</sup>18, Per17, Per19]. **Maximum-a-Posteriori** [Per17, Per19]. **MaxPol** [HP17]. **MBO** [MKB13]. **Mean** [CFSS16, DPC13, FK10, NPJI17, ZC12, MGKR15]. **Means** [ACSW12, DATP17, DAG11, HP15, JGKL17, LSC<sup>+</sup>18]. **Measure** [CLMT15, FR14, GSC12, Ish14, LVEB09]. **Measure-Theoretic** [FR14]. **Measure-Valued** [LVEB09]. **Measurement** [AGM14, BK18, KKN<sup>+</sup>18, LLW13]. **Measurements** [AGH14, AH17, CfGdGK09, CCBB14, GS17, HSNS18, IVW16, KBW13, MNPT17, PS19, PV14, QYZ19, TBKF15, WHY<sup>+</sup>15]. **Measures** [AZ13, LdGKW19]. **Measuring** [SG15]. **Media** [BL14a, BK17, BG20, FSY09, GS10, YJL<sup>+</sup>17]. **Median** [LR16]. **Medical** [BCMO08, CCMS13, Dem09, ZYZL20]. **Medium** [AGM14, FST20, GP09]. **Meets** [DMP18]. **Mellin** [BGV09]. **Mesh** [Lip14]. **Meshes** [Lip14]. **Meshing** [CHL16]. **Message** [Sap08]. **Messages** [HSAS18]. **Metal** [ZDL18]. **Metamorphosis** [ERS18]. **Method** [AL15, AH17, ABR10, BBC11, CCZ13, CLL11, CYY11, CTY13, CYZ14, CEM19, CWR19, CZ10, CH16, CDH16, CJK10, CJ12, DGT19, DPC13, DLY17, DHN09, Dro14, DMZ18, ELX13, FPT20, FKLS12, GLQ15, GS17, HRSZ16, HLST15, HNW09, Kla11, KKN<sup>+</sup>18, KKN19, LY12, LR17, LR18, LN13, LP19, LZ18, LNzs10, LY15, LDS20, LLS<sup>+</sup>13, LZD<sup>+</sup>16, LZ17b, LZZ18, LLS19, LSW14, LQS14, MSMC15, NLH<sup>+</sup>16, OCLP15, Pal16, RNH19, RGZ13, SKJ<sup>+</sup>19, SO08, THC11, WN13b, WT10, WE17, XY13, XZZ19, YPC17, YK16, Yin10, ZN19, ZZ19, GWY09, GO09]. **Methods** [AKM11, ACSW12, BGH18, CDRS16, CDSV18, CTWY15, Dar15, DGJS16, EST20, FW14, GEB15, Gol11, GOSB14, GM10, HPZ11, HN17, HL13, JLZ19a, KGC11, LKR18, LLLX17, LGCWY18, Mar09, MRSS08, RDSK09, TV20, WT10, ZCO18, BS09]. **Metric** [HQ19, KN14, MD15, SMSY11]. **Metrics** [BHM12, BBHMA17, FAS<sup>+</sup>15, KvD18, NPV16, NK20, RR15, RG16]. **Micro** [CDRS16]. **Microscopy** [SZSH11, SEMS19]. **Migration** [AdHW15]. **Minimal** [CCP12, KLS<sup>+</sup>17, KSS19]. **Minimax** [ACSW12]. **Minimization** [CZ10, Che14, CW18, CvG10, Con17, GM18, GSXH18, HPZ16, KHD<sup>+</sup>15, LLC14, MLH17, NW13a, NNZC08, OGL15, PS16, SX12, WYYZ08, YOGD08, ZN19]. **Minimize** [CJPT13]. **Minimizer** [Nik13]. **Minimizers** [Nik13]. **Minimizing** [BPS16]. **Minimum** [Ish14, WMT<sup>+</sup>09]. **Mining** [JGM<sup>+</sup>12]. **Mirror** [HPZ16]. **Missing** [CJ14]. **Mixed** [AAD<sup>+</sup>08, ADK15, BGH18, CDS17, CWR19, CCFBY13, DD13, HL13, Yan13]. **Mixed-Norm** [CWR19]. **Mixed-State** [CCFBY13]. **Mixing** [XFPA14]. **Mixture** [BP14, DPN18, HBD18, WM13]. **Mobile** [ABG<sup>+</sup>13b]. **Modality** [Rig17]. **Mode**

[YY13]. **Model**  
 [ADK15, BP18, BS15, BP14, BH12, BDS18, CCZ13, CTWY15, CGÖ19, DL18a, DAB<sup>+</sup>20, DPN18, DGT19, DZ13, DMTZ16, DMZ18, DBCS14, ERS18, FW14, FQC16, GLR18, GT15, GDF15, HDH16, HSY20, KYW13, LP19, LLC14, LZOX15, LM13, MF13, NW11, OSZ17, OGL15, PAB<sup>+</sup>15, PCP<sup>+</sup>16, SO08, SX12, SNB13, THC11, WZYX13, WH15, ZC15, ZDL18, ZWN14].  
**Model-Based** [LLC14]. **Modeling**  
 [AE08, ABG13a, CCFBY13, MAP11, SY14].  
**Modelling** [ES15]. **Models**  
 [CT17, CTY13, CK09, DL18b, DHP19, Dro14, DMSC16, FQXC17, FFA11, GDF15, HW13, HVW15, HBD18, HSÅS18, KL18a, KP13, LY13, LAZ<sup>+</sup>18, MLH17, NTDB19, NPJI17, NL10, Per19, PCBC10, SXS<sup>+</sup>15, SCGAF<sup>+</sup>15, SN11, TM16b, WT10, XFPA14, ZWJ19].  
**Modification** [CfdGK09]. **Modified**  
 [FPT20]. **Modular** [GDT18]. **Modulus**  
 [DGJS16]. **Molecules** [RK19, VHO20].  
**Moments** [DPC13]. **Momentum**  
 [SNDP13]. **Monge** [MSKL09, STV09].  
**Monogenic** [Sto11]. **Monte** [DMP18].  
**Moreau** [DMP18]. **Morphing**  
 [NPS18, RGLB14, TAF<sup>+</sup>20].  
**Morphological** [Ang13, PFS10].  
**Morphology** [PH14]. **Most** [KSPR17].  
**Motion** [BCP13b, BMW09, BDS18, CGÖ19, CN17, CCFBY13, EKOÅ10, FA09, FH11, GOF16, HLKH14, KSZ11, Lan19, LHB<sup>+</sup>18, ÖSB15, PM08, SM18, SXS<sup>+</sup>15, SNM17].  
**Motion-Flow** [SXS<sup>+</sup>15]. **Motor** [CHM13].  
**Mouse** [DL14]. **Movement** [DGH11].  
**Moving** [BGK15, BGP<sup>+</sup>17, CB11, DKP09, FGPT17, GOF16, WY12, WY14].  
**Moving-Target** [CB11]. **MR**  
 [CHH<sup>+</sup>12, KT14, LKW<sup>+</sup>19]. **MR-Perfusion**  
 [LKW<sup>+</sup>19]. **MREIT** [GH18]. **MRI**  
 [CBZ18, EB16, ET18, HR15, SHVC19].  
**Muller** [NDM<sup>+</sup>11]. **Multi** [WZ17].  
**Multi-Domain** [WZ17]. **Multiatlas**  
 [GZC<sup>+</sup>15]. **Multichannel**  
 [JBS17, MB10, WZYX13, YYZW09].  
**Multiclass** [LS11]. **Multicontrast** [EB16].  
**Multiconvex** [XY13]. **Multidimensional**  
 [BMW09]. **Multienergy** [LSC<sup>+</sup>18].  
**Multifractal** [WCA<sup>+</sup>18]. **Multifrequency**  
 [AAJ<sup>+</sup>16, GH15, GS17, MNPT17].  
**Multigrid** [BLC10, FD20, NTDB19].  
**Multilabel** [PYAC13]. **Multilevel**  
 [HPZ16, HPPZ19, KGC11]. **Multimodal**  
 [CLY19, EST20]. **Multiphase**  
 [BFG19, LNzs10, TZS13]. **Multiple**  
 [ATTY16, ARF16, BK18, BG15, DVFP14, FSY09, GH15, LR17, LR18, LLW13, NTDB19, RVCB19, SC10, WHY<sup>+</sup>15].  
**Multiple-Secret** [SC10]. **Multiplexing**  
 [SXS<sup>+</sup>15]. **Multiplicative**  
 [CYZ14, DZ13, HNW09, KYW13, LNS10, SO08, YGS<sup>+</sup>19, ZWN14]. **Multipliers**  
 [CTY13, CEM19, OCLP15, YPC17].  
**Multiresolution** [MRSS08, NLH<sup>+</sup>16].  
**Multiscale**  
 [AdHW15, BF15, CC14, FPM17, FAS<sup>+</sup>15, FQXC17, HLLS14, JGM<sup>+</sup>12, KRW10, LZ17a, LHW<sup>+</sup>15, LLW13, Sto11, ZvDT<sup>+</sup>17].  
**Multispectral** [GB11]. **Multistatic**  
 [AGK<sup>+</sup>12]. **Multivalued** [StTBRV12].  
**Multivariate** [LS19, WCA<sup>+</sup>18]. **Multiview**  
 [PV14]. **Multiwindow** [BF15]. **Mumford**  
 [BFG19, CCZ13, HP11, Kla11, KR13, Mah12].  
**Myriad** [LS19].  
**Nanostructures** [CDRS16]. **Narrowband**  
 [WY14]. **Natural** [FQC16, GSC12]. **Near**  
 [BL14a, DLLY17, FA09, MWBK14, XZZ19].  
**Near-Field** [BL14a, DLLY17, FA09, XZZ19].  
**Neighborhood** [SSN09]. **NESTA** [BBC11].  
**Nested** [CPP09]. **Network**  
 [FGPT17, KK17]. **Networks**  
 [ALKÖP19, Wan16a, YZL<sup>+</sup>18]. **Neumann**  
 [QSUZ11]. **Neural**  
 [ALKÖP19, Wan16a, YZL<sup>+</sup>18].  
**Neuroanatomical** [DL14, RGLB14].  
**Newton**  
 [BS09, CWR19, CJK10, CJ12, Her19, MB15].

**Newton-type** [BS09]. **NMF** [RBLS14]. **NMR** [SX12]. **Noise** [CDS17, CYZ14, CLDM18, CJK10, CJ12, DD13, DZ13, FW14, FQC16, GS10, GPST13, GPST15, GPB17, HNW09, JGKL17, KHD<sup>+</sup>15, KGV14, LNS10, MYZ13, SDZ15, SO08, SG15, SDA15, WT13, Yan13, YGS<sup>+</sup>19, ZWJ19, ZBN17, ZWN14]. **Noises** [AGM14]. **Noisy** [AS18, GP09, LR16, SW13, Wan16b, XZC<sup>+</sup>12, ZN19, BGV09]. **Non** [BAA14, BC15, CT17, ZWJ19, ZTO15]. **Non-Lambertian** [CT17]. **Non-Lipschitz** [BC15, ZWJ19]. **Non-Local** [ZTO15]. **Non-Manhattan** [BAA14]. **Nonadditive** [HL13]. **Nonasymptotic** [LKR18]. **Nonconvex** [CZ10, CW18, GM18, HW13, HVW15, KLS<sup>+</sup>17, LMSS19, NNZC08, OCBP14, ODBP15, PYAC13, PKCS18, PS16, WCN<sup>+</sup>19, YPC17, ZBN17]. **Nonconvex-TV** [ZBN17]. **Nondiffusing** [FST20]. **Nonhomogeneous** [ZC15]. **Noninvasive** [CDRS16]. **Nonlinear** [AC09, AGM14, CZ10, CFM15, CJ12, DMTZ16, DMZ17, FQXC17, GLS20, HSNS18, Mar09, OGL15, RW09, SHB<sup>+</sup>18, SKJ<sup>+</sup>19, SO08, ZvDT<sup>+</sup>17]. **Nonlocal** [ACSW12, CJ14, CBB14, DL18a, DBCS14, DAG11, HFE19, JGKL17, JPC12, LNPS17, LBM13, LPSS15, LSC<sup>+</sup>18, LZ17b, SSN09, YGLD17, ZBBO10]. **Nonnegative** [ELX13, Gil14b, SX12, TV20, XY13]. **Nonnegatively** [DGJS16]. **Nonoriented** [CT13]. **Nonoverlapping** [LP19]. **Nonparametric** [PCP<sup>+</sup>16, SHS10, SDA15]. **Nonrigid** [AKR13, LZ17a]. **Nonseparable** [LMSS19]. **Nonsmooth** [CZ10, HL13, KLS<sup>+</sup>17, NNZC08, ODBP15, PS16, YPC17]. **Nonstationary** [YY15]. **Nonuniform** [AGH14]. **Nonuniformity** [KT14]. **Norm** [CWR19, GSXH18, KGV14, KR13, LY13, ZN19, Nik13]. **Normal** [RG16, YK16]. **Norms** [CY09]. **Note** [Wan16a]. **Novel** [CV13, GSZ17, LWY16, TV20, YLLY19]. **Nuclear** [GSXH18, HCCS20, LY13, ZN19]. **Nuclear-Norm** [LY13]. **Nullity** [BKBD16]. **Nullspace** [BH17]. **Numerical** [BLM14, BBHMA17, BCD<sup>+</sup>12, CFdGK09, CNS10, Dro14, FN17, FST20, Hub13, KKN<sup>+</sup>18, Lan19, Mon14, YCU19, ZC15]. **Numerics** [BH15b]. **Object** [AAD<sup>+</sup>08, SY14, SZW14]. **Objects** [ARYZ18a, ARYZ18b, BGP<sup>+</sup>17, DKP09, FSY10, FGPT17, RW13, SMSY11, TBKF15, WZ17]. **Observer** [NTV10]. **Obstacle** [BG15, DLL19, GLS18]. **Occluded** [NT11]. **Occlusions** [TCH08]. **Off** [CDP19, OJ16]. **Off-the-Grid** [CDP19, OJ16]. **One** [AGP18, BGM<sup>+</sup>16, CvG10, EKOÅ10, FW10, Han12, KGV14, LR17, LLS19]. **One-Dimensional** [EKOÅ10, KGV14]. **One-Homogeneous** [AGP18, BGM<sup>+</sup>16]. **One-Way** [FW10]. **Online** [LGCWY18, NTV10, ShDC<sup>+</sup>19]. **Only** [MNPT17, NMP15]. **onto** [CWR19]. **Open** [CR18]. **Operations** [TM18]. **Operator** [ACN16, DGT19, GLQ15, MPM<sup>+</sup>17, OV14]. **Operators** [ACN16, EW15]. **Optical** [BGK15, BMW09, CJT<sup>+</sup>12, KGC11, SSSW09, LDCG14]. **Optimal** [ATTY16, BJM15, CCBR13, CLC13, FPPA14, GLR18, JGKL17, KR17, KL18b, LdGKW19, MMT18, NS17, PPO14, SHB<sup>+</sup>18, TM16b]. **Optimality** [ABK15, SHVC19]. **Optimization** [AAD<sup>+</sup>08, BC15, BK15, BK17, BCSB18, CDSV18, CMP14, CCMY15, DLW16, EKOÅ10, EZC10, FD20, GM18, GOSB14, KGC11, KLS<sup>+</sup>17, KP13, LWM<sup>+</sup>18, OCBP14, ODBP15, RL15, RPW19, RM10, RZ15, RYZ18, RB18, Sap10, WCN<sup>+</sup>19, WE17, XY13, ZWN14]. **Optimization-Based** [DLW16]. **Optimization-Free** [BCSB18]. **Optimized** [LTW<sup>+</sup>10]. **Oracle** [ACSW12]. **Orbiter** [GPPM15]. **Order** [BHV12, BBC11, BLSW14, BLC10, Dro14, DB10, DMZ18, EZC10, FPT20, FQC16, JDA<sup>+</sup>19, JK15, LNPS17, LGCWY18, PMS20, PAM12,



QYW10, SNDP13, SRG10, WT10, ZC15]. **Ordering** [VZE16]. **Organization** [KZ18]. **Orientation** [CDH16, HSSP09, WSW13]. **Orthonormal** [Bat10]. **Oscillation** [GB18]. **Osher** [CTWY15, LP19, NPJI17]. **Other** [Car10]. **Out-of-Focus** [LEZX14]. **Outer** [DHSS13]. **Outliers** [CB18]. **Over-** [HJS13]. **Over-/Underexposed** [HJS13]. **Overlapping** [CTWY15]. **Overparameterized** [GEB15].

**Packet** [YY13]. **Paintings** [HBM12, YCF<sup>+</sup>16]. **Pair** [MPM<sup>+</sup>17]. **Pairs** [BV16]. **Pansharpening** [DBCS14]. **Parabolic** [AdHW15, HP15, KSZ12]. **Paradigms** [BKBD16]. **Paradox** [TMR13]. **Parallel** [BPS16, CHH<sup>+</sup>12, KL19, LCS<sup>+</sup>16, MAP11]. **Parameter** [CLPS19, CJ12, DVFP14, FW14, FFA11, FH11, HSNS18, KP13, LS19, NLH<sup>+</sup>16, SCGAF<sup>+</sup>15]. **Parameterization** [CLL15, CHL16]. **Parameterizations** [YLLY19]. **Parameterized** [Her19, MPL<sup>+</sup>18]. **Parameters** [CJK10, LNS10, NS14]. **Parametric** [AKM11, BG14, EST20, FF13, UC13]. **Parametrization** [KO16]. **Paring** [FK10]. **Part** [ARYZ18b, BH15a, BH15b, LR17, LR18, LHW<sup>+</sup>15, WLYU15]. **Partial** [Hub13]. **Partially** [CHH<sup>+</sup>12, LEZX14, NT11]. **Particle** [NT11]. **Partitioning** [SW14]. **Partitions** [CCBR13, CCP12, KLS<sup>+</sup>17]. **Passive** [BGP<sup>+</sup>17, GP09, GPST13, GP15, LKR18, WY12]. **PAT** [RGZ13]. **Patch** [DDGL19, DPN18, DD13, GLR18, SO13, VZE16]. **Patch-Based** [DD13]. **Patch-Rank** [SO13]. **Patches** [AC09, KZ14, TM12, YGLD17]. **Paths** [BER15]. **Pattern** [FL12, HLLS14]. **Pattern-Guided** [FL12]. **Patterned** [NNYZ17]. **Patterns** [JLZ19b]. **PCA** [BGL13, VSU15]. **PCM** [GSZ17]. **PDE** [AB10, BDMS15, Her19]. **PDE-Constrained** [Her19]. **PDEs** [LPP<sup>+</sup>09]. **Peaceman** [CDH16, LY15]. **Penalization** [GLQ15]. **Penalization-Regularization-Operator** [GLQ15]. **Penalty** [HR15, SBFA15, SBFA16]. **Perfect** [CLC13]. **Performance** [ADGM14, GM15, KKN19, KBW13, LKR18, TM16a]. **Perfusion** [LKW<sup>+</sup>19]. **Perimeter** [KR13]. **Periodicity** [TP18]. **Perona** [GKL13]. **Perot** [Aco19]. **Perspective** [BCD<sup>+</sup>12, GZC<sup>+</sup>15, HY12, LLLX17, MTWB14]. **PET** [CBZ18, CK09]. **Peterson** [FN17]. **Petersson** [KN14]. **Pharmacokinetic** [CK09]. **Phase** [ABFM14, AdHW15, CESV13, CLDM18, CMLZ18, CEM19, CH16, ELB18, FD20, IVW16, JLZ19a, LY18, NTDB19, PS19, Sto11, ZZ19]. **Phase-Field** [NTDB19]. **Phase-Space** [LY18]. **Phased** [DLL19]. **Phaseless** [DLL19, JLZ19a, JLZ19b, KKN<sup>+</sup>18, XZZ19]. **Phases** [MNP16]. **Photoacoustic** [Aco19, CN17, ES15, FRV18, HN17, HHMT16, Kow14, LHB<sup>+</sup>18, MPL<sup>+</sup>18, MPM<sup>+</sup>17, NS14, NK16, QSUZ11, RZ13]. **Photographing** [HBM12]. **Photographs** [DAMM12, HJS13]. **Photomask** [CJT<sup>+</sup>12]. **Photometric** [MF13, MTWB14, MWBK14, MQLC16, SNB13]. **Photon** [KRW10, TAR<sup>+</sup>19]. **Photon-Limited** [KRW10]. **Physics** [DHP19]. **Physics-Based** [DHP19]. **Pictorial** [KvD12]. **Piecewise** [AGSW16, LO17, NS14, NNZC08, OJ16]. **Piecewise-Bézier** [AGSW16]. **Pipeline** [RVCB19]. **Pixel** [GM15, LAZ<sup>+</sup>18]. **Pixel-Level** [LAZ<sup>+</sup>18]. **Planar** [HSH13]. **Plane** [CAT08, NK20]. **Plasmonic** [ARYZ18a, ARYZ18b]. **Play** [BCSB18]. **Plug** [BCSB18]. **Plug-and-Play** [BCSB18]. **Point** [CLC13, CHL16, DPH<sup>+</sup>13, DAMM12, FSY09, HY12, HHK<sup>+</sup>18, JLZ19b, LZ17a, MWBK14, MCL16, MMT18, NS17, SZW14, WCN<sup>+</sup>19]. **Point-Set** [CLC13]. **Point-to-Subspace**

[SZW14]. **Points**  
 [GBFA10, GBFA12, SNB13]. **Poisson**  
 [CYZ14, CLDM18, CJPT15, FQC16, GTU14, KHD<sup>+</sup>15, WHY<sup>+</sup>15, ZYZL20]. **Poissonian**  
 [Che14]. **Polarizable** [CV17]. **Polarization**  
 [ABFM14, ABG<sup>+</sup>13b, APST19]. **Polyenergetic** [CNS10]. **Polynomial**  
 [SCGAF<sup>+</sup>15]. **Pose** [DSYT10]. **Posed**  
 [KR13, RNH19, SKJ<sup>+</sup>19]. **Posedness**  
 [Aco19, CT17]. **Positive**  
 [BHV12, CDHS13, CKA17, MC16, QYW10]. **Possible** [AKZ13]. **Posterior** [LM13]. **Posteriori** [Per17, Per19]. **Postreconstructed** [Dem09]. **Postregistered** [Dem09]. **Potential**  
 [GLS18, NL10]. **Potentials** [JDA<sup>+</sup>19]. **Power** [BV16, CFdGK09, Naj17]. **Practical**  
 [FAS<sup>+</sup>15]. **Preconditioned** [CMLZ18]. **Preconditioning** [GM15, RL15]. **Prediction** [SMSY11]. **Presence** [AGM14]. **Preserving** [BCMO08, DB10, GQY14, SY14, YYZW09, YLLY19]. **Pressure**  
 [MPL<sup>+</sup>18]. **Primal**  
 [BGH18, DHN09, EZC10, Gol11, HY12, HYY14, MSMC15, OV14]. **Primal-Dual**  
 [DHN09, EZC10, Gol11, HY12, HYY14, MSMC15, OV14]. **Principal**  
 [BCP13b, HPPZ19, LS17]. **Principle**  
 [FH11]. **Prior** [DSYT10, FQC16, HLKH14, LZD<sup>+</sup>16, MYZ13, TCH08]. **Priori**  
 [FGS12, AM16]. **Priors**  
 [DPN18, HHMT16, SS13, WCA<sup>+</sup>18]. **Probabilistic** [NTV10, NPJI17, TM16b]. **Probing** [ST11]. **Problem** [AAJ<sup>+</sup>16, BGPS17, BFG19, CPW<sup>+</sup>14, CHM13, DL14, HY12, KSZ11, KKS15, KKN<sup>+</sup>18, KKN19, LQS14, SBFA15, MSKL09, SBFA16]. **Problems** [AB10, AKM11, BGH18, BT09, CPP09, CLC13, CJ12, CP16, DMTZ16, ELB18, EKOÅ10, ELX13, FR14, GEB15, GS17, HFE19, HHK<sup>+</sup>18, HL13, HP17, HQ19, HSNS18, KR17, KR13, KMDL19, LR17, LR18, LH18, LDS20, LS18b, LLS19, LSW14, PYAC13, PS16, RNH19, RPW19, RYZ18, SKJ<sup>+</sup>19, SCC14, TS14, VZE16, WZYX13, YPC17, YHC18, GO09]. **Process**  
 [GPPM15]. **Processing**  
 [CFSS16, DPH<sup>+</sup>13, ETT15, FW14, Gol11, HL13, LMSS19, Lip14, LZOX15, MKB13, OSZ17, VZE16, WZYX13, Zhu16, BS09]. **Procrustes** [KvD18]. **Product**  
 [HZ14, HMZZ19, TM18]. **Profiles** [KGV14]. **Programming**  
 [CDHS13, KLS<sup>+</sup>17, LY15, ÖSB15, SS11]. **Projection**  
 [ACN16, CCR<sup>+</sup>12, CWR19, CJT<sup>+</sup>12, DMTZ16, Gil14b, HSH13, KBW13, LLC14]. **Projection-Based** [DMTZ16]. **Projections**  
 [AS18, SW13]. **Promoting** [CMP14]. **Proof**  
 [LDCG14]. **Properties**  
 [KR13, LM13, WCU13]. **Property**  
 [BH17, HR15]. **Provably** [PKCS18]. **Proximal** [CMLZ18, CCMY15, CG19, DMP18, HLST15, LY15, OCBP14, PPO14, PS16, STY11, TV20]. **Ptychographic**  
 [CEM19, FD20, HLST15]. **Pure** [GM15]. **Pure-Pixel** [GM15]. **Pursuit**  
 [HPPZ19, LO17]. **Puzzles** [KGB15].

**Quadratic** [CDHS13, RZ15, RYZ18]. **Quantification** [RPW19, TP18, ZYZL20]. **Quantitative** [AAD<sup>+</sup>08, CPW<sup>+</sup>14, DHP19, FRV18, HHMT16, NS14, Nat16, PUW17, Pal16, RGZ13, RZ13]. **Quantized** [YZL<sup>+</sup>18]. **Quasi** [LL14, LLBS14, QLL19, TP18, Wol09, WkZ14]. **Quasi-Conformal**  
 [QLL19, WkZ14, LL14]. **Quasi-Isometric**  
 [Wol09]. **Quasi-Variational** [LLBS14]. **Query** [SZW14]. **Quotient**  
 [DATP17, HH18, TD17].

**Rachford** [ACL16, BPS16, CDH16, LY15]. **Radar** [AC12, BCP13b, BK18, CB11, DFM<sup>+</sup>12, Voc15, WY14]. **Radiative**  
 [FST20, Hub13]. **Radon** [ACN16, HQ16, Hal11, MH17, RLL14, ZD16, ZDL18]. **Random** [AC12, BR15, BK17, CCFBY13, FH11, GPB17, NL10, PCP<sup>+</sup>16, Rom09,

SC10, SW13, TM12, WCA<sup>+</sup>18].  
**Randomized** [LZ18, SDR20, TM18].  
**Randomly** [GS10]. **Range** [AC09, TA14].  
**Rank** [CDP19, JHSX11, MLH17, NNYZ17, PKCS18, SO13, ZN19]. **Ranking** [ROD15].  
**Rapid** [BGPS17]. **Rate** [CTWY15]. **Rates** [ACSW12]. **Ratio** [GPST13, GPST15].  
**Rational** [Han12, KSZ12]. **Raw** [SG15].  
**Ray** [AAD<sup>+</sup>08, DLW16, LQS14, Mon14, StTBRV12, YCU19, YCF<sup>+</sup>16, BFJQ18].  
**Ray-Tracing** [StTBRV12]. **rays** [GPPM15].  
**Reaction** [SZGW18]. **Real** [BH17].  
**Real-World** [BH17]. **Realization** [Zhu16].  
**Receivers** [FGPT17]. **Reciprocity** [FW10].  
**Reclaiming** [Mil18]. **Recognition** [HKBH13, SZW14, VSU15].  
**Recomposition** [FPM17]. **Reconstructing** [ARYZ18a, ARYZ18b]. **Reconstruction** [AAD<sup>+</sup>08, AR13, APST19, AL15, BLM14, BGPS17, BP18, BFJQ18, BH15a, BH15b, BDM17, BDS18, BCSB18, CFdGK09, CJ14, CHH<sup>+</sup>12, CGÖ19, CLY19, CBZ18, CNS10, CN17, DHSS13, EB16, ET18, EST20, ESS16, FGS12, FRV18, FST20, Gri10, GY12, GSZ17, HSSP09, HF12, HHK<sup>+</sup>18, HK14, HSH13, JLZ19b, KL19, KL18a, KRW10, KT16, LCS<sup>+</sup>16, LSC<sup>+</sup>18, Lou08, MPL<sup>+</sup>18, Nat16, NW13a, NNZC08, PS11, PV14, QYZ19, RGZ13, RLL14, Rig17, RZ15, RB18, SNM17, TAR<sup>+</sup>19, WYYZ08, WY10, YJL<sup>+</sup>17, ZD16, ZBBO10, ZDL18, ZYZL20].  
**Reconstructions** [AGH14, BI15].  
**Recovering** [HP15, HJS13]. **Recovery** [BH17, BBC11, CPP09, CW18, CG19, GB18, GOF16, HPZ11, Hub13, LSZ18, LQS14, MLH17, OJ16, WHY<sup>+</sup>15, YJL<sup>+</sup>17].  
**Recursive** [BGG17]. **RED** [REM17].  
**Reduced** [DMZ18, GH18]. **Reducing** [PUW17]. **Reduction** [DMTZ16, FQC16, Pal16, SX12, ZDL18].  
**Redundancy** [DDGL19]. **Redundant** [AE08]. **Reed** [NDM<sup>+</sup>11]. **Reference** [JLZ19b]. **Refinement** [CLK14]. **Refitting** [DPSV17]. **Reflection** [ZZ19].  
**Reflectivities** [BMPT16]. **Reflectors** [BPG08, TMP13, TMP18]. **Refractions** [PS11]. **Regime** [ARYZ18b]. **Region** [DSYT10, HW13, LNYS10, NT11].  
**Region-Based** [DSYT10, NT11]. **Regions** [HF12, HJS13, Per17, SDA15]. **Registration** [AMY16, ATTY16, BGH18, CT13, CÖ18, DL18a, DAB<sup>+</sup>20, DL14, FF13, KSPR17, LZ17a, LL14, LTW<sup>+</sup>10, LW14, LLYG14, MB15, MB16, MS17, OGL15, Sdi13, SNDP13, VF13, VF14, MSKL09].  
**Regression** [LKW<sup>+</sup>19, PAM12, SHS10].  
**Regularization** [All09, ACDG18, BBJ<sup>+</sup>18, Bat10, BB14, CLPS19, CBZ18, CJPT13, CJK10, CGN<sup>+</sup>13, DB10, EGvL<sup>+</sup>18, GLQ15, GQY14, HW13, JK15, KR13, LMSS19, LNS10, MB16, PCBC10, PCCP19, RLS18, REM17, SYO15, SRG10, SCC14, TA14, VZE16, WZ17, WDS14, YGLD17, ZD16, ZBBO10, All08].  
**Regularization-Based** [HW13].  
**Regularizations** [RBLS14]. **Regularized** [Che14, FPPA14, HQ19, NLH<sup>+</sup>16, Nik13, PAM12, PPE<sup>+</sup>09, SBFA15, SBFA16, XY13, GO09]. **Regularizing** [HR15, KR17].  
**Reinterpretation** [GM10]. **Related** [AL15, ACSW12, SCM<sup>+</sup>12]. **Relaxation** [BR15, NTDB19, PYAC13, SCC14, YZL<sup>+</sup>18].  
**Relaxations** [GSC13, JDA<sup>+</sup>19]. **Relaxed** [DL14, KYW13, YK16]. **Relaxometry** [HCCS20]. **Relevance** [KHD<sup>+</sup>15]. **Reliable** [BF15]. **Remote** [FSY10, PCP<sup>+</sup>16].  
**Removal** [BCD19, CDS17, CLDM18, HNW09, JGKL17, LNS10, YGS<sup>+</sup>19, ZWJ19, ZBN17, ZWN14]. **Removing** [DD13, YCF<sup>+</sup>16]. **Rendition** [Mil18].  
**Repeatability** [ROD15]. **Representation** [ABK15, CT13, GSXH18, LLS<sup>+</sup>13, LLWG13, MYZ13]. **Representations** [EW15, NNYZ17]. **Representatives** [MPGMD19]. **Represented** [ACN16].  
**Resistivity** [KK17]. **Resolution** [ABG<sup>+</sup>13c, BK15, BGP<sup>+</sup>17, BG20, BGG17, Fou10, MC16, Wah15, WR14, SEMS19].

**Resolution-Controlled** [WR14].  
**Resonance**  
 [BCC<sup>+</sup>16, DPVW14, DHP19, GH18, HCCS20, LCS<sup>+</sup>16, RB15, SAS17, WE17].  
**Restoration** [ABR10, BG14, BC15, BGG19, BDM15, BCP13a, CLPS19, CZ10, CJPT15, DPSV17, DHN09, DGJS16, GSXH18, GKL13, HBFA14, HW13, JHSX11, JNW19, JK15, KGV14, LLBS14, LZ17b, STY11, SS13, TPG16, Yan13, YYZW09, YY17, ZWJ19, ZC15, ZBN17]. **Restoring** [DZ13, SDZ15]. **Restricted** [BH17].  
**Resulting** [DGH11]. **Results** [BZ18].  
**Retinex** [NW11, WH15, ZTO15]. **Retrieval** [ABFM14, BBJ<sup>+</sup>18, CESV13, CLDM18, CMLZ18, CEM19, ELB18, FD20, IVW16, JLZ19a, PS19, WT13]. **Reversal** [Kow14, NK16]. **Reverse** [AdHW15].  
**Reverse-Time-Migration-Type** [AdHW15]. **Revisited** [GTO14]. **Revisiting** [LAZ<sup>+</sup>18, Per19]. **Reweighted** [ODBP15, PH14, ZDL18]. **Rician** [FSY09].  
**Ridge** [RK19]. **Ridgelet** [EHB09].  
**Ridgelets** [GTO14]. **Riemannian** [AGSW16, BDMS15, CC14, CFSS16, FAS<sup>+</sup>15, GDT18, LPP<sup>+</sup>09, MMM12, SHS10, TD17, ZBO14]. **Riesz** [WCU13]. **Rigid** [HLLS14]. **Risk** [DVFP14]. **Robust** [BCP13b, CJT<sup>+</sup>12, CLMT15, ESS16, Gil14b, JHSX11, PS19, PV14, SZW14, WSL13, Wan16b]. **Robustness** [LKR18]. **ROF** [BPS16, WT10]. **ROF-like** [BPS16]. **Role** [GP14, Poo15]. **Root** [CWR19]. **Rotating** [WCN<sup>+</sup>19]. **Rotation** [LZ17a, Rig17, VSU15, WZ17, BGV09].  
**Rotation-Free** [Rig17].  
**Rotation-Invariant** [LZ17a, VSU15].  
**Rough**  
 [BL14a, BZ18, DLLY17, LZZ18, XZZ19].  
**Rubinstein** [HQ19, LLSV14]. **Rudin** [CTWY15, LP19, NPJI17].  
**Saddle** [HY12]. **Saddle-Point** [HY12].  
**Saint** [DL14]. **Salient** [KZ18]. **Sampled** [ZCO18]. **Samples** [OJ16, SM16].  
**Sampling**  
 [AL15, AH17, BWB14, BCC<sup>+</sup>16, CCKW14, DLLY17, JLZ19a, LDS20, LLS19, MJC<sup>+</sup>19].  
**SAR** [GT15, ST11, Tsy09a, Tsy09b].  
**Satellite** [GKL13]. **Saturation** [JNW19].  
**Saturation-Value** [JNW19]. **Scalable** [RPW19]. **Scale**  
 [AKR13, FPM17, FD20, Gil14a, HPZ16, LKW<sup>+</sup>19, Lin18, Mar09, PWSU16, RR15, SN11, SO08, WDCT09, WE17].  
**Scale-Space** [WDCT09]. **Scaled** [NT11].  
**Scaling** [KSZ12, BGV09]. **Scatterer** [JLZ19b]. **Scatterers**  
 [CMP14, GM10, LLW13]. **Scattering**  
 [BZ18, BG20, BG15, BGG17, CH16, DLL19, FST20, GP09, GP14, GLS20, Han12, HLLS14, JLZ19a, KKN19, LR17, LR18, LN13, LDS20, LZZ18, LLS19, QYZ19, Rig17, WT13, XZZ19]. **Scenes**  
 [DKP09, NAF<sup>+</sup>14, TAR<sup>+</sup>19, YY15].  
**Scheme**  
 [FPT20, GQY14, MKB13, MJC<sup>+</sup>19, RLS18].  
**Schemes** [BCC<sup>+</sup>16, MB16]. **Schunck** [LDCG14]. **Science** [EZC10]. **Sciences**  
 [Dar15, Sap10]. **Scientific** [Car10].  
**Screened** [GTU14]. **Search**  
 [CWR19, KGC11, GWY09]. **Second**  
 [BLSW14, LNPS17, LGCWY18].  
**Second-Order** [LGCWY18]. **Secret** [SC10].  
**Section** [Sap10]. **Sectional**  
 [ES15, MMM12]. **Segmentation**  
 [BG14, CCZ13, CCMS13, CCBR13, CYZ14, CCFBY13, DSYT10, DL18a, DAB<sup>+</sup>20, FPT20, GB11, GZC<sup>+</sup>15, HRSZ16, LNZS10, LZD<sup>+</sup>16, NTDB19, NPJI17, OGL15, TZS13, TCH08, Wan16b, ZvDT<sup>+</sup>17].  
**Segmentation/Registration**  
 [DL18a, OGL15]. **Segmenting** [LY12].  
**Seismic** [GS13]. **Selection**  
 [CLPS19, CCBR13, DVFP14, FW14, GDF15, Lin18, MPGMD19]. **Selective**  
 [TCH08, TMP13]. **Self**  
 [FBU15, HLKH14, LVEB09, LS18b].

**Self-Calibration** [LS18b]. **Self-Similar** [FBU15, HLKH14]. **Self-Similarity** [LVEB09]. **Semi** [GLR18]. **Semi-Discrete** [GLR18]. **Semiblind** [BCP13a]. **Semiconvex** [MSMC15]. **Semidefinite** [BHV12, CDHS13, QYW10, SS11]. **Semidiscrete** [BCGR14]. **Semismooth** [CJK10, CJ12]. **Sensing** [ADD12, BH17, CCR<sup>+</sup>12, CCBB14, DPVW14, FSY10, FL12, LLC14, LHB<sup>+</sup>18, NDM<sup>+</sup>11, Poo15, PCP<sup>+</sup>16, RKT<sup>+</sup>13, RB15, Rom09, SXS<sup>+</sup>15, YOGD08, ZLD<sup>+</sup>18]. **Sensitivity** [LR17, LR18, MB10]. **Sensor** [FA09, GP09]. **Sensors** [Aco19, SG15]. **Separable** [CCMY15, SHVC19]. **Separation** [BGG19, CB18, Gil14b, HK19, JBS17, KSPR17, Kut13, PH14, PYA<sup>+</sup>12, SX12]. **Sequence** [PM08]. **Sequences** [DD10]. **Sequential** [HDH16, KLS<sup>+</sup>17]. **Series** [QSUZ11, RLL14]. **Series-Based** [QSUZ11]. **Set** [AKM11, ACDG18, CLC13, EST20, FPT20, GB11, KBW13, RGLB14, SV08]. **Sets** [ALKÖP19, CFM09, KSS19, LLBS14, MD15]. **Setup** [MC16]. **Shading** [BCD<sup>+</sup>12, CT17, KZ14, MF13]. **Shah** [HP11, BFG19, CCZ13, Kla11, KR13, Mah12]. **Shah-Like** [Kla11]. **Shah-Type** [KR13]. **Shape** [ABK15, AR13, AR15, AZ13, ATW14, AL15, BHM12, BCD<sup>+</sup>12, CT17, DSYT10, DHSS13, DL18a, DAB<sup>+</sup>20, EST20, FA09, FGS12, GDF15, GDT18, GTU14, LZD<sup>+</sup>16, LTW<sup>+</sup>10, MF13, MHP17, NPV16, OGL15, QYZ19, RGLB14, RW09, RW13, SY14, TCH08]. **Shape-based** [LTW<sup>+</sup>10]. **Shape-from-Shading** [CT17, MF13]. **Shapes** [AKR13, ATTY16, CT13, KZS14, SUFU20, TAF<sup>+</sup>20]. **Sharing** [SC10]. **Sharp** [Sdi13]. **Sharpening** [Bel13, CMY10, MWBB12]. **Shear** [Zhu16]. **ShearLab** [KSZ12]. **Shearlet** [GK14, GL09]. **Shift** [FK10]. **Shooting** [CKL17]. **Shot** [Han12]. **Shrinkage** [BT09, BAS15, CSS08]. **Shrinkage-Thresholding** [BT09]. **Shutter** [TMR13, TM16b]. **SIFT** [DL18b, SCM<sup>+</sup>12]. **SIFT-Like** [DL18b]. **Signal** [GPST13, GPST15, GH15, GM10, SSN09, WY10, WHY<sup>+</sup>15]. **Signal-Subspace-Based** [GM10]. **Signal-to-Noise** [GPST13]. **Signals** [CW18, GP09, GS10]. **Signature** [AE08, CE12]. **Similar** [FBU15, HLKH14, Kow14]. **Similarities** [FAS<sup>+</sup>15]. **Similarity** [EHL17, LVEB09]. **Simplex** [LWM<sup>+</sup>18, MMT18]. **Simplex-Structured** [LWM<sup>+</sup>18]. **Simplified** [FRV18]. **Simplifying** [NK20]. **Simply** [CR18]. **Simulation** [AC12, GL17, SKJ<sup>+</sup>19]. **Simultaneous** [DHSS13, JK15, LHB<sup>+</sup>18, TA14]. **Single** [FLZ14, HSSP09, HLLS14, KKN<sup>+</sup>18, LLW13, LR16, MQLC16, TAR<sup>+</sup>19, VHO20]. **Single-Grain** [HSSP09]. **Single-Lobe** [MQLC16]. **Single-Photon** [TAR<sup>+</sup>19]. **Singular** [KN14]. **Singularities** [HQ16, Hub13]. **Sinkhorn** [KR17, KMDL19]. **Size** [Wan16a]. **Sizes** [HMY16]. **Skeletons** [STV09]. **Sketching** [LY18]. **Sliced** [LZ17a]. **Sliced-Wasserstein** [LZ17a]. **Slices** [BDM17, KL19]. **Small** [ACI08, ARYZ18a, ARYZ18b, Wah15]. **Smooth** [CG19, HHK<sup>+</sup>18]. **Smoothed** [CP16]. **Smoothing** [CLL11, CZ10, CY09, DGT19, Mil13, SM18]. **Smoothness** [Tii14]. **Sobolev** [BBHMA17, CMY10, KD12, KGV14, NPV16]. **Solar** [GPPM15, SLS19]. **Solution** [BGPS17, ZC15]. **Solutions** [ELX13, KN14, PKCS18, PCBC10]. **Solve** [KKN<sup>+</sup>18]. **Solver** [HW13]. **Solvers** [BKSU14]. **Solving** [CCBB14, KGB15, LR17, LR18, LLBS14, LH18, SKJ<sup>+</sup>19]. **Some** [CT17, DDGL19]. **Sound** [HN17, MPL<sup>+</sup>18, QSUZ11]. **Soup** [MMT18]. **Source**

[AB10, BV16, BGG19, CHPS09, CB18, GP14, GPST15, Gil14b, GS17, HHR08, Hub13, JBS17, LQS14, SX12, WCN<sup>+</sup>19].  
**Sources** [FST20, KZ14, MWBK14, MC16].  
**Space**  
 [AdHW15, BHM12, BBHMA17, BER15, CLPS19, Car10, CV13, FN17, GLR18, HBFA14, Her19, KvD12, KN14, LS17, Lin18, LY18, Mar09, NK20, RDM18, RW13, SYO15, SO08, SMSY11, TD17, WDCT09, ZZ19].  
**Space-Frequency** [LS17]. **Space-Time** [Lin18, SYO15]. **Space-Variant** [CLPS19].  
**Spaceborne** [ST11, Tsy09b]. **Spaces** [CKA17, DATP17, MD15, NPV16, NPS18, Tii14, ZCO18]. **SPARCOM** [SEMS19].  
**Sparse** [AR13, AE08, BBC11, CDP19, CW18, EW15, ELX13, FBU15, FSY10, FF13, FGPT17, GSXH18, GDF15, GS17, HPZ11, JHSX11, JDA<sup>+</sup>19, LZ18, LLS<sup>+</sup>13, MYZ13, MLH17, PG19, RBL14, RB18, SLS19, SN11, SJD<sup>+</sup>15, SX12, WY10, WY12, WE17, YJL<sup>+</sup>17, ZBBO10, ZCO18].  
**Sparsifying** [RB15]. **Sparsity** [BKBD16, CMP14, CBZ18, GEB15, JGM<sup>+</sup>12, Kut13, LMSS19, NNYZ17, SEMS19, TV20, WZYX13].  
**Sparsity-Inducing** [LMSS19]. **Spatial** [LKW<sup>+</sup>19, LSC<sup>+</sup>18, SXS<sup>+</sup>15, ZBO14, ZD16, ZDL18]. **Spatial-Radon** [ZD16, ZDL18].  
**Spatial-Temporal** [LKW<sup>+</sup>19]. **Spatially** [EW15, LNS10, YY17]. **Spatiotemporal** [CGÖ19, CK09]. **SPD** [CV13]. **Special** [BMP13, Sap10]. **SPECT** [CK09, LQS14].  
**Spectral** [ABK15, ARF16, BGM<sup>+</sup>16, Gil14a, KRW10, LKR18, LSC<sup>+</sup>18, ZvDT<sup>+</sup>17].  
**Spectrometer** [GPPM15].  
**Spectrometer/Telescope** [GPPM15].  
**Spectrometry** [MB10]. **Spectroscopic** [ARYZ18a, ARYZ18b]. **Spectroscopy** [PPE<sup>+</sup>09, SX12]. **Spectrum** [CJ14]. **Speed** [HN17, MPL<sup>+</sup>18, QSUZ11, WZ17]. **Sphere** [CW18, HP11, Lan19]. **Sphere-Like** [Lan19]. **Spheres** [CAT08, GWY09].  
**Spherical** [BP14, CW18, CLL15, CHL16, OAUC<sup>+</sup>20].  
**Spike** [AARW19]. **Spline** [GL13, Sdi13].  
**Split** [LSW14, WT10, YK16, GO09].  
**Splitting** [CDH16, CG19, DGT19, GLQ15, LY15, OV14, PPO14, RFP13, RL15].  
**Splittings** [MSMC15]. **Spot** [CHM13].  
**Spotlight** [CB11]. **Spread** [DAMM12, NS17, WCN<sup>+</sup>19]. **Square** [DPSV17]. **Squares** [ELX13, LS18b, Nik13, SBFA15, SBFA16].  
**Stability** [ABG<sup>+</sup>13c, Wah15].  
**Stabilization** [DD10, SM18]. **Stable** [AGH14, NW13a, ÖSB15]. **Stacking** [SG15].  
**Stage** [CCZ13, CYZ14, CLY19, GSZ17].  
**Start** [Tsy09b]. **Start-Stop** [Tsy09b].  
**State** [CCFBY13, LQS14]. **Static** [HSNS18].  
**Stationary** [FW14, XFPA14]. **Statistical** [ACL16, DDGL19, Dem09, GDF15, RDG09, RGLB14]. **Statistically** [YY15]. **Statistics** [AC09, FBU15, LNPS17]. **Steepest** [HH18].  
**Steerable** [LS17, LS18a, PFA<sup>+</sup>19, UC13, VSU15, WCU13]. **Steering** [PWSU16].  
**Stein** [DVFP14]. **Stencils** [Get11]. **Step** [HMY16, LR17]. **Stereo** [BF15, MTWB14, MWBK14, MQLC16, SMA11]. **Stitching** [NW13b, WN13a]. **STIX** [GPPM15].  
**Stochastic** [BAA14, DL18b, HSH13, RM10, VHO20].  
**Stokes** [Her19]. **Stop** [Tsy09b]. **Stored** [DL14]. **Strategies** [EGvL<sup>+</sup>18, NMP15, SM18]. **Streaking** [PUW17]. **Strictly** [LY15]. **Strong** [ARYZ18b, ACL16, CMP14]. **Structural** [AS18, HSF<sup>+</sup>19]. **Structure** [EB16, EKOÅ10, KvD18, LRMU15, SS11].  
**Structure-Guided** [EB16]. **Structured** [ELX13, GB18, JGM<sup>+</sup>12, LAZ<sup>+</sup>18, LWM<sup>+</sup>18, PS19]. **Structures** [Dro14, Fan09, LN13, RGLB14]. **Student** [LS19]. **Student-** [LS19]. **Study** [ADGM14, HMY16, Her19, KK08, SKJ<sup>+</sup>19].  
**Sub** [BDMS15, CFSS16, GDT18].  
**Sub-Riemannian** [BDMS15, CFSS16, GDT18]. **Subcellular**

[SNM17]. **Sublinear** [HNAC<sup>+</sup>15]. **Subordination** [Car10]. **Subpixel** [DAMM12]. **Subspace** [CJPT13, GM10, HL13, SZW14, TV17, YY17]. **Subwavelength** [Fan09]. **Successive** [Gil14b]. **Sufficient** [Sdi13]. **SUGAR** [DVFP14]. **Super** [MC16, SEMS19]. **Super-Resolution** [MC16, SEMS19]. **Superlinearly** [HW13]. **Superresolution** [AARW19, CDP19, HDH16, LR16, PCCP19, TA14]. **Support** [HHR08, WY10]. **Supported** [HMZZ19]. **SURE** [WM13]. **Surface** [AMY16, ESS16, HSH13, KZ14, KZ18, LTW<sup>+</sup>10, WkZ14, ZC12]. **Surfaces** [AGSW16, BL14a, BZ18, CLL15, CR18, DLLY17, HHK<sup>+</sup>18, Lan19, LZZ18, LW14, WLTC12, WDCT09, XZZ19]. **Susceptibility** [BCD19, CPW<sup>+</sup>14, Nat16, PUW17, Pal16]. **Symbol** [ISW13]. **Symbol-Based** [ISW13]. **Symmetric** [BHV12, BPS16, CKA17, HMY16, RK19]. **Symmetrizing** [Mil13]. **Synchronization** [ARF16, GOF16, SS12]. **Synchrosqueezed** [LY18, YY13]. **Synthesis** [CJT<sup>+</sup>12, GLR18, TPG16]. **Synthesizing** [XFPA14]. **Synthetic** [AC12, BCP13b, BMPT16, BGP<sup>+</sup>17, BK18, BG20, CB11, DFM<sup>+</sup>12, FSY09, GP15, Voc15, WY14, WY17, YY15]. **Synthetic-Aperture** [CB11]. **System** [CV13, SZGW18, WHY<sup>+</sup>15]. **Systems** [BHI11, FW10, GK14, STCB13, ShDC<sup>+</sup>19, ZLD<sup>+</sup>18].

**Tail** [HF12]. **Taken** [SW13]. **Takes** [Mil18]. **Taking** [PS11]. **Tale** [YGLD17]. **Tangent** [VF14]. **Tapered** [BZ18]. **Target** [ABG<sup>+</sup>13b, CB11, JLZ19b, YY15]. **Targets** [AGK<sup>+</sup>12, FSY09, KKN19, NT11, WY12, WY14]. **Technique** [BGG19, NK16]. **Teichmuller** [LLYG14, FN17, KN14, MCL16]. **Telescope** [GPPM15, Car10]. **Template** [CKL17, DATP17, MHP17]. **TEMPO** [MCL16]. **Temporal** [LKW<sup>+</sup>19]. **Tensor** [BZNC16, CDHS13, GPB17, HCCS20, HZ14, HMZZ19, HKBH13, KK17, LRMU15, QYW10, StTBRV12, TM18, VBK13, XY13, ZN19]. **Tensor-Tensor** [HKBH13]. **Tensors** [ABG<sup>+</sup>13b, APST19, BHV12]. **Terminating** [TMP18]. **Terms** [CFM15, MMM12]. **Terrain** [DPH<sup>+</sup>13]. **Testing** [DDGL19, Dem09]. **Texture** [GL17, GLR18, GB18, Gil14a, JK15, KGV14, Kut13, LLWG13, MAP11, SO13, XFPA14, YGS<sup>+</sup>19]. **Textured** [Wan16b]. **Textures** [CCFBY13, TAF<sup>+</sup>20]. **TFV** [GSZ17]. **TGV** [BH15a, BH15b]. **TGV-Based** [BH15a, BH15b]. **Thanks** [Naj17]. **Their** [BB14, Mon14, RVCB19]. **Theorem** [CHM13, SSSW09]. **Theorems** [FW10]. **Theoretic** [FR14, KLS<sup>+</sup>17]. **Theoretical** [AGP18, SDM17]. **Theory** [CT17, CB11, GSC12, HK19, LZ18, LPP<sup>+</sup>09, LLLX17, TM16b]. **Thermoacoustic** [QSUZ11]. **Thin** [Gri10]. **Three** [BLM14, CDRS16, Gri10, KL19, KT16, LR17, LR18, SS11, YCU19]. **Three-Dimensional** [CDRS16, Gri10, KL19, KT16, LR18, SS11, YCU19, LR17]. **Thresholding** [BT09, BAS15, CCZ13, GLS20]. **Tight** [CCMS13, CBZ18, GSC13, HZ14, HMZZ19, PWSU16, ZD16]. **Tight-Frame** [CCMS13]. **Tilts** [RDM18]. **Time** [AdHW15, BER15, BDM15, BPT11, ERS18, Kow14, Lin18, NK16, NTDB19, PS19, SYO15, TBKF15, YCU19]. **Time-Dependent** [TBKF15]. **Time-Frequency** [BPT11, PS19]. **Tissue** [Kow14]. **Tomographic** [AS18, CN17, DLW16, PS11]. **Tomography** [AAD<sup>+</sup>08, Aco19, AAJ<sup>+</sup>16, AM16, AKLS17, DHSS13, FRV18, GH18, GLQ15, Gri10, HN17, HRSZ16, HHR08, HHMT16, HF12, KHD<sup>+</sup>15, KSZ11, Kla11, Kow14, LHW<sup>+</sup>15, LSC<sup>+</sup>18, Lou08, LHB<sup>+</sup>18, MPL<sup>+</sup>18,

MPM<sup>+</sup>17, NS14, NK16, NLH<sup>+</sup>16, PAM12, QSUZ11, QS15, RZ13, RLL14, Rig17, RB18, SW13, SAS17, WZ17, WLYU15, WR14, YCU19, ZZ19]. **Tomosynthesis** [CNS10]. **Tone** [CBB14]. **Top** [DATP17]. **Topological** [ABG<sup>+</sup>13c, ABR10, CDRS16, Dro14, LR17, LR18, SNM17, Wah15]. **Topology** [BG14, BCMO08, SY14, TP18]. **Topology-Preserving** [SY14]. **Total** [All08, All09, BKP10, BH12, BHSW18, CLL11, CTY13, CLDM18, CvG10, Con17, DL18a, DMSC16, EB16, EGvL<sup>+</sup>18, GB18, Get11, GS13, Gil14a, GSC12, HHMT16, HNW09, JNW19, KSS19, KPR16, LMM17, LHW<sup>+</sup>15, LRMU15, LZOX15, LM11, LM13, MYZ13, Mar09, NW13a, NW11, NNYZ17, NLH<sup>+</sup>16, OGL15, PMS20, Poo15, SRG10, VBK13, WYYZ08, WLYU15, WDS14, YY17, ZC15]. **Trace** [BBJ<sup>+</sup>18]. **Tracing** [StTBRV12]. **Tracking** [ABG<sup>+</sup>13b, CV13, NT11, NTV10, SY14, SMSY11]. **Trading** [SDR20]. **Training** [YZL<sup>+</sup>18]. **Trajectories** [CCKW14, HSH13, VHO20]. **Transcranial** [MPM<sup>+</sup>17]. **Transfer** [Hub13]. **Transform** [AAD<sup>+</sup>08, ACN16, BHI11, BMP13, GL09, Hal11, JM16, LZ16, LR16, LQS14, MH17, MJC<sup>+</sup>19, RLL14, Sto11, YY13, YCU19, BGV09]. **Transformation** [KO16, ZBO14]. **Transformed** [CB18, RBLS14]. **Transforms** [GTO14, LVEB09, LY18, Mon14, NK20, RB15, UC13, WCU13, Zhu16]. **Transient** [AAB<sup>+</sup>11]. **translation** [BGV09]. **Transmission** [DLW16, KHD<sup>+</sup>15]. **Transport** [BJM15, CLC13, FPPA14, GLR18, KR17, LdGKW19, Mär11, MMT18, NS17, PPO14, SHB<sup>+</sup>18]. **Transport-Based** [SHB<sup>+</sup>18]. **Travel** [YCU19]. **Traveltime** [GLQ15, ZZ19]. **Tree** [KPR16]. **Triangulated** [WDCT09]. **Triangulation** [Fou10]. **Truncated** [GSXH18, MLH17]. **Trust** [HW13]. **Trust-Region** [HW13]. **Tubular** [Gri10]. **Tumors** [NTDB19]. **Turbulent** [HLKH14]. **TV** [GSZ17, CGN<sup>+</sup>13, DMSC16, HHK<sup>+</sup>18, HW13, HK14, LZ17b, MBBS14, WT10, YK16, ZBN17]. **TV-Based** [CGN<sup>+</sup>13]. **TV-Image** [FKLS12]. **TV-Type** [HK14]. **Twist** [BCGR14]. **Two** [BGM14, BG15, BGG17, CCZ13, CYZ14, CLY19, DAMM12, DPC13, FST20, GSZ17, KYW13, KL19, Lou08, SCGAF<sup>+</sup>15, SW13, SUFU20, TMP13, YK16, YGLD17]. **Two-Dimensional** [KL19, Lou08, SW13, SUFU20, TMP13]. **Two-Level** [KYW13]. **Two-Parameter** [SCGAF<sup>+</sup>15]. **Two-Stage** [CCZ13, CYZ14, CLY19, GSZ17]. **Type** [AdHW15, BP18, GKL13, HHMT16, HK14, RLL14, SRG10, BS09, KR13]. **Ultra** [WY14]. **Ultra-Narrowband** [WY14]. **Ultrafast** [AARW19]. **Ultrasound** [AARW19, BI15, LZD<sup>+</sup>16, NTDB19]. **Unbiased** [DVFP14, ROD15]. **Unbounded** [LZZ18]. **Uncertainty** [EST20, MS17, RPW19, ZYZL20]. **Underexposed** [HJS13]. **Undersampled** [SAS17]. **Unified** [CT17]. **Uniform** [AKZ13, BH17]. **Unifying** [UC13, ZTO15]. **Uniqueness** [BZ18, JLZ19a, MF13, Nik13, XZZ19]. **Universal** [FN17, GK14, KN14]. **Unknown** [SM16, SW13]. **Unplugged** [BCSB18]. **Unresolved** [FL12]. **Unsquarred** [LSZ18, WSW13]. **Unsupervised** [HBD18, SHB<sup>+</sup>18]. **Updating** [LLS<sup>+</sup>13]. **Upwind** [CLL11]. **Use** [MPM<sup>+</sup>17, Tsy09b]. **Using** [AAD<sup>+</sup>08, AE08, ACDG18, ABG<sup>+</sup>13b, ARYZ18a, ARYZ18b, AdHW15, ALKÖP19, ADD12, BBJ<sup>+</sup>18, BCD19, BHI11, BG14, BGG17, BGM<sup>+</sup>16, BCSB18, CCZ13, CCMS13, CWR19, CZ10, CLC13, CDH16, CY09, CCBB14, CCFBY13, CLMT15, DSYT10, EHB09, EST20, FH11, FGPT17, GL17, GP09, Gri10, GL09, HSF<sup>+</sup>19, HKBH13, HSÅS18, KR17, KGV14, KL19, LZ17a, LNPS17, LHW<sup>+</sup>15, LPP<sup>+</sup>09, LWY16, LLS19, LLWG13, NW13a, NW13b,



NNYZ17, NNZC08, ÖSB15, RB15, RLS18, SXS<sup>+</sup>15, StTBRV12, SS12, SZSH11, SRG10, THC11, TBKF15, TCH08, Tii14, TP18, WY12, WSW13, WY14, WCN<sup>+</sup>19, WLYU15, WCA<sup>+</sup>18, WkZ14, WE17, Yan13, ZC12, ATTY16, BGV09, JLZ19b].

**Value** [JNW19, LY12]. **Valued** [BT18, BS15, BHSW18, GSC13, LVEB09, LNPS17, NPS18, SW14, WDS14]. **Values** [BPS16, SM16]. **Variability** [AS18]. **Variable** [AAD<sup>+</sup>08, BWB14, CCKW14, HN17, MJC<sup>+</sup>19, QSUZ11, Tii14]. **Variables** [FH11]. **Variance** [DAG11, JLN14]. **Variant** [CCZ13, CLPS19, HBFA14, YY17]. **Variants** [Her19]. **Variation** [All09, BKP10, BH12, BHSW18, CLL11, CTY13, CLDM18, CvG10, Con17, DL18a, DMSC16, EB16, EGvL<sup>+</sup>18, GB18, Get11, GS13, Gil14a, GSC12, HHMT16, HNW09, JNW19, KSS19, KPR16, LMM17, LHW<sup>+</sup>15, LRMU15, LZOX15, LM11, LM13, Mar09, NPV16, NW13a, NW11, NNYZ17, NLH<sup>+</sup>16, OGL15, PMS20, Poo15, SRG10, VBK13, WYYZ08, WLYU15, WDS14, YY17, ZC15, All08, MYZ13]. **Variation-Based** [BH12, CLL11, CLDM18]. **Variation-Type** [SRG10]. **Variational** [BLSW14, BDM15, BH15a, BH15b, BDS18, CMLZ18, CGÖ19, CP16, CBB14, Dar15, DAB<sup>+</sup>20, DZ13, DBCS14, FLZ14, FW14, FR14, GVCBP15, GEB15, HFE19, HL13, HSY20, JLN14, KYW13, KP13, LMSY13, LLBS14, MWBB12, NW13b, PM08, PABT17, PCBC10, RLS18, SDZ15, SS13, WN13a, WN13b, WH15, YYZW09]. **Varifold** [CT13]. **Varying** [EW15, LNS10]. **Vector** [Bat10, BK18, BS15, CY09, Fou10, GSC13, Her19, PS11, RDSK09, Sdi13, SW14]. **Vector-Valued** [BS15, GSC13, SW14]. **Vectorial** [DMSC16, GSC12, SCC14, WT10]. **Vehicles** [CHM13]. **Velocity** [TM16b]. **Venant**

[DL14]. **Version** [HMY16]. **Vese** [NPJI17]. **Vessel** [CCMS13]. **Via** [DMZ18, BCP13b, BMW09, CMY10, CESV13, CEM19, CDHS13, CvG10, DMTZ16, FPT20, FQXC17, GOF16, GK14, GS13, GM15, Han12, Hub13, KZS14, KK17, LZ17a, LL14, LWM<sup>+</sup>18, LS18b, LSW14, OAUC<sup>+</sup>20, OGL15, PKCS18, RGLB14, RPW19, RDSK09, STY11, WY10, WMT<sup>+</sup>09, ZvDT<sup>+</sup>17]. **Vibrations** [SG15]. **Video** [DKP09, HDH16, HK14, JHSX11, LZD<sup>+</sup>16, LLWG13, NAF<sup>+</sup>14, PABT17, SM18, SXS<sup>+</sup>15, SYO15, TP18, Zhu16]. **View** [AAB<sup>+</sup>11]. **Viewing** [MTWB14, SS12, SZSH11]. **Views** [ARF16]. **Virtual** [GP14, GPST15]. **Viscous** [RW13]. **Visibility** [PPE<sup>+</sup>09]. **Visibility-Based** [PPE<sup>+</sup>09]. **Visible** [BBP09]. **Vision** [BCGR14, ODBP15, SMA11]. **Visual** [NTV10, SC10]. **Volume** [BDM17, KL19, LWM<sup>+</sup>18, OAUC<sup>+</sup>20, YLLY19]. **Volume-Preserving** [YLLY19]. **Volumetric** [RR15]. **Voronoi** [CLMT15]. **Voxel** [KT14]. **Walk** [TM12]. **Warping** [KSPR17]. **Wasserstein** [CP16, HSÅS18, LZ17a, Pey15, SHB<sup>+</sup>18, TPG16]. **Water** [Kow14]. **Watershed** [Naj17]. **Wave** [AAB<sup>+</sup>11, BZ18, FW10, HP15, LWY16, LLS19, MPM<sup>+</sup>17, YY13]. **Waveform** [CB11, EGvL<sup>+</sup>18]. **Waveform-Diverse** [CB11]. **Waveforms** [WY14]. **Wavefront** [ALKÖP19]. **Waveguide** [TMP18]. **Waveguides** [TMP13]. **Wavelet** [CSS08, CYY11, DB13, EW15, FBU15, FKLS12, GL13, HLKH14, LZD<sup>+</sup>16, PWSU16, TZS13, UC13]. **Wavelets** [WCU13, GTO14]. **Waves** [DLL19, DMZ18, SSSW09]. **Way** [FW10]. **Weak\*** [Ish14]. **Weak\*-Convergence** [Ish14]. **Weakly** [ABG13a, Far19]. **Weighted** [DL18a, LO17, LLC14, LZOX15, OGL15, YK16]. **Weighted-** [LLC14].

**Weights** [JGKL17, YZL<sup>+</sup>18]. **Weil** [FN17, KN14]. **Well** [Aco19, CT17]. **Well-Posedness** [Aco19, CT17]. **Which** [GSC12]. **Whiteness** [LMSY13]. **Whole** [BCD19]. **Windows** [DKP09]. **Wirtinger** [YY19]. **Within** [PABT17, BMW09]. **without** [ACL16, CH16, KZ14, MNP16, TA14]. **World** [BH17].

**X** [GPPM15, AAD<sup>+</sup>08, BFJQ18, DLW16, LQS14, Mon14, YCU19, YCF<sup>+</sup>16]. **X-Ray** [AAD<sup>+</sup>08, DLW16, LQS14, Mon14, YCU19, YCF<sup>+</sup>16, BFJQ18]. **X-rays** [GPPM15].

**Zooming** [BH15a, BH15b, CLK14].

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