

# A Complete Bibliography of the *Journal of Computational and Graphical Statistics*

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01 March 2022  
Version 2.03

## Title word cross-reference

Tsi02].  $T_3$  [GB00].  $\tau$  [SBWZ08].  $U$  [WDB96, VC21].  $X$  [XMY13].  $Y$  [XMY13].

**-An** [HR11]. **-Fold** [YK09]. **-Learning** [LSD05]. **-Likelihood** [HPOL14]. **-mean-directions** [MR10]. **-Means** [MSS08]. **-Norm** [LZ08]. **-Penalization** [SMB14]. **-Penalized** [NST12]. **-Priors** [FN16]. **-Regression** [SBY06]. **-Segmentation** [Joh13]. **-Stable** [FW13, LFT17]. **-Statistical** [VC21]. **-statistics** [WDB96]. **-value** [HB98]. **-Vines** [MC18]. **-Way** [Paa99, Sta95]. **-Wishart** [LD11].

**1** [Bak92a]. **15** [Ano12b]. **150-Year-Old** [VRH19].

( $m$ ) [KNN05].  $2$  [MBGO11].  $2 \times 2$  [HVRA96, LH95].  $3$  [Dri08, LTW<sup>+</sup>10].  $[0, 1]^d$  [WC94].  ${}_1$  [NST12].  $\chi^2$  [Sta95].  $\delta^{18}O$  [RL14].  $\ell_1$  [Kat10, Yua08].  $F$  [Mul98].  $G$  [LD11, FN16].  $H$  [HPOL14].  $H_0$  [Mul98].  $K$  [MSS08, Gho07, MR10, YK09].  $\kappa$  [LT94].  $L_0$  [FML19, Joh13, KCF21, LW07].  $L_1$  [LZ08, LW07, SMB14].  $R^2$  [GSP<sup>+</sup>06].  $n$  [HY17, OR99, Paa99].  $P$  [BCH05, HY17, HB98, NP01].  $p > 2$  [LMM19].  $\psi$  [LSD05].  $Q$  [LFZ97].  $R$  [JKD92, MC18, Sta95].  $\rho$  [VT94].  $R \times C$  [Fri00, LPM98, VT94].  $S$  [VT94, Rup92, SBY06].  $\sigma$  [FW13, LFT17].  $t$  [GB02, PLW01, Som98, TEG19, TMMB20,

20 [Goo11].

40 [Goo11]. 45 [Goo11].

‘50 [HJ17]. 523 [Ano12b]. 526 [OLN11a].

**ABC** [ER21, ILP19, NFMS14]. **ABC-CDE** [ILP19]. **ABC-SMC** [ER21]. **Aberrant** [MM09]. **Abrupt** [NST12]. **Accelerated** [KLH05, ZL16]. **Accelerating** [ASND19, HHC03, HV19]. **Acceleration** [HV19, KYW19, GS94]. **Accept** [CR98]. **Acceptance** [ER21, QTVK18, SGH17, Tan06]. **Acceptance-Rejection** [Tan06]. **Access** [SH03]. **Accompaniment** [Rap01]. **Accounting** [HDM02, ZHJ16]. **Accumulated** [BM19]. **Accurate** [CJ02, HAC<sup>+</sup>12, LH95, Mil19, TEG19, WK17, ZSW22]. **Acoustic** [BMO01]. **Across** [GHCU22, SQCK20]. **Active** [WBW21]. **Activity** [FCL10]. **Activity-Event** [FCL10]. **Acyclic** [KB08]. **Adaptation** [BCD11, GMTK13]. **Adaptive** [Ano08a, BMC05, Bil00, BJMD13, BK05, CKNK06, CTDKL21, CKR19, CGL11, CRC<sup>+</sup>07, CMJ11, DZ99, Efr05, EHW03, EH09, FG95, FT16, GK97, Gho07, GK10, GT11, Gou98, Gri99, HT17, JS13, JBJ<sup>+</sup>22, KSM14, KCK08, LGS13, LAJ13, LSV<sup>+</sup>09, LW09, LRFK21, LO16, MFMR19, MHDW19, MMV13, MS03, NW10, Oeh98, PTP03, PC06, Pit02, RR09, SG00, SGH17, SW18, SBR10, WB18a, WC06, WKC<sup>+</sup>08, WCR13, YLCR19, Zha97, ZJA16, vDE19]. **Adaptively** [WL13a]. **Addendum** [Ano12b]. **Adding** [DS21]. **Addition** [OSR<sup>+</sup>18]. **Additional** [SBE17]. **Additive** [Ano20, BHK15, CCL21, DMR20, DCV10, EM02, FM12, FNGW20, GKZ10, HY19, KO04, KLH99, KSM<sup>+</sup>18, LBCG16, MMRMGMC08, MHS<sup>+</sup>14, MH17, OR99, PWS16, PCG<sup>+</sup>14, SSG15, ST99, TL07, UKZ18, VN18, WYL14, YASR20].

**Adjusted** [BFM18, CVA08, DG14, DIR02, MK92, Tan17, ZCS<sup>+</sup>19]. **Adjustment** [BSZ22, RF17a, Sha14, YNTK21]. **Adjustments** [SS11]. **ADMM** [RT16, Zhu17]. **Advanced** [LYG<sup>+</sup>10]. **Advances** [EH15]. **AdWords** [LRR20]. **Affine** [KO05]. **AFT** [HJ04]. **After** [Hub99]. **Again** [HV17]. **Against** [PRS11, SSS07]. **Age** [SH17]. **Age-Specific** [SH17]. **Agglomerative** [Hea11]. **Aggregate** [OSR<sup>+</sup>18, Par11]. **Aggregated** [GY07, HCZMH21, Pro06, WBS21]. **Agreement** [LT94]. **Ahead** [Hic17]. **Aided** [HIT99]. **Aids** [TN14b]. **Air** [EO95]. **Airline** [Wic11c]. **Airports** [Wic11a]. **Akaike** [ST99]. **Algorithm** [AB17, ACG14, AT16, Bak92b, BCH09, BL04, BJMD13, CB01, Cap11, CCFM01, Che07a, CC18, CW00, CM08, DASR08, DH10, DZFZ18, DMP14, ER04, FSB11, Fea04, FM10, FH15, FN04, GJ97, Hob08, Hoe10, HGK10, HRV12, HL00a, HB16, JK00, Jan06, JS95, JL13, Joh13, Jon98, KB08, Kar21, KPC02, KKK08, KCSA20, LW08, LC01, LF16, LD06, LLZ09, Maa05, MR10, MHDW19, MM09, Mey03, MMV13, MR01, Mül99, NG04, OT11, PKH15, Pan99b, PW15, PNLL21, Pie04, QE96, RAM19, RL14, SBM22, SBY06, SZ08, SMB14, Smi95, Smy02, SDL19, TMvD18, VM04, VG01, Wan18, WH98, WK00, XGTB18, YZ13, YH17, YSD13, YZ06, YLW17, ZNYJ14, ZL16, Zho05, ZL13, Zhu17, dSCL21, Bak92a]. **Algorithmic** [CKR19, WNA20]. **Algorithms** [AE92, Béd08, BF02, BQS94, BDR97, Cai99, CZ16, FDC<sup>+</sup>19, GD21, GKZ18, GK06, GV01, GR93, GJR05, HMP96, HV19, HLH06, HHH12, JO02, KMOS92, KA13, KSR19, KSSL21, KYW19, LMST18, LGS09, LB15, MM10, OSR<sup>+</sup>18, PLW01, PC06, Pit02, RT16, SS19, SBEG94, Tan15, Tar99, VDC21, WR93, XBW15, XCSP16, Yen20, Yu12, YNTK21, ZJ04, ZC15, ZBS<sup>+</sup>21, ZL10,

ZHZL19, dVTP<sup>+</sup>17, vLM97, vD00].  
**Alignment** [RG09]. **All-Pairwise** [Pie04].  
**Allocation** [BP98, CD19, LF16, XD20].  
**Allocation-Based** [LF16]. **Allocations**  
 [PI10]. **Allowing** [MC18, NST12].  
**Alternating** [CHW08, ZY21, ZYZ10].  
**Alternative** [EM18, Fos01, JU00].  
**Alternatives** [SŠS07, Tuk93a]. **Always**  
 [PLIK02]. **AMlet** [ST04]. **Among**  
 [HM11, Hob01b]. **Amplitude** [ZKS18].  
**Analyses** [Bri94, GL07, MBS04, PCP11].  
**Analysis**  
 [ACG14, BZ07, BM19, BRS<sup>+</sup>08, BK03a,  
 BZ97, BG00, Buj04, CRGS17, CCS03,  
 CCHS08, CZSL10, CKT21, CH99, CW00,  
 DDM20, DH03b, EH17, ES96, Fal99, FG05,  
 Far92, Far99, Far12, FS99, Fie12, FIK19,  
 GVBM04, GEGM03, Gel04a, Gel04b, GD09,  
 GR12b, GM99, GJL<sup>+</sup>10, GAZ15, HLH15,  
 HT17, HM15, HV05, Hob08, HM16, HLZH05,  
 Hub00, IG96, IKL08, JCZG19, Jör09,  
 KXY20, KTZQ20, Koo98, LW08, LRB12,  
 LW09, LPS99, LSH16, LRFK21, LO16,  
 LP14, LH00, MS18a, MHH15, MAJ<sup>+</sup>98,  
 MM09, MW96, MY94, MVR02, MDD<sup>+</sup>12,  
 NP01, NYC15, NW10, NAB16, NFMS14,  
 NBH<sup>+</sup>15, OC01, Paa99, PM20, PI10, PLH10,  
 Par11, PL12, PTP03, QLCZ15, QN00, RA01,  
 ROY20, RDL07, RT98, STM15, SJH<sup>+</sup>15,  
 Sco99, SS01, SSB<sup>+</sup>14, Smi01, SC98, Tan15,  
 Tan17, Tre06, TU11, Tu94]. **Analysis**  
 [TN14b, WH17, WCDS03, WK00, WCSY21,  
 YBDS02, YLM17, Zha97, ZYKC08, ZP14,  
 ZH03, ZCY<sup>+</sup>11, ZHT06, dLM04]. **Analysts**  
 [YL95]. **Analytic**  
 [Ano06a, Hsu92, KGMT06]. **Analytical**  
 [YT99]. **Analyzing**  
 [HMP96, Mci99, OFR<sup>+</sup>18, VG01]. **Anchors**  
 [NJM20]. **Ancillarity** [HR11, YM11b].  
**Anderson** [HV19]. **Angle**  
 [Gra13, HK10, XWZ15, ZLWZ16].  
**Angle-Based** [ZLWZ16]. **Angular**  
 [RIC<sup>+</sup>16]. **Animated** [SVC<sup>+</sup>19].  
**Animation** [Far04]. **Animations**  
 [LTW<sup>+</sup>10]. **Anisotropic** [BMR15].  
**Annealed** [KA13]. **Annealing**  
 [Glu00, Glu04, HW21, IP04, Kar21].  
**Annotation** [MI00]. **Anomalous**  
 [LCSL14, SMN15]. **Anomaly**  
 [OBGC21, THSM<sup>+</sup>20, THSM21]. **ANOVA**  
 [GW93, Hoo07, QG06, YT21a]. **Anthrax**  
 [LBM<sup>+</sup>14]. **Antithetic** [HJ09]. **APL2**  
 [FF94]. **Application** [Ano07a, AG18, BK05,  
 DASR08, DXL12, EH15, Fea04, Fea05,  
 FHVW03, GVBM04, GM15, GJ09, Glu04,  
 Gol09, GX20, GRM09, HMW06, JYYZ18,  
 KTZQ20, Koo98, LYHM15, LBM<sup>+</sup>14, Lia07,  
 LMS19, MC05, PAP22, RHC<sup>+</sup>14, RL14,  
 Rya03, SH17, SM13, TNKK16, Wan20,  
 XP07, YL99, ZRL14, ZL16, Zhu17, WDB96].  
**Applications**  
 [BM19, CDM<sup>+</sup>20, Hof09, HHTB10, Ish99,  
 JKD92, Jör09, KS08, LS93, LPS99, LJ19,  
 MPR<sup>+</sup>12, MMN<sup>+</sup>13, Mey03, NP01, NYC15,  
 PvD09, QN00, RRH18, RW10, Wan18,  
 WCKL19, WIR01, Wu08, ZCI<sup>+</sup>17].  
**Applying** [LL15]. **Approach**  
 [ACS17, ABvS09, ACCQ19, BCD11, BBW20,  
 BEGS17, BK20, Bra21, BDR97, BR02, CS98,  
 CAR<sup>+</sup>10, CH16, CTW20, CH99, EM18,  
 GD16, GK02, GY07, GKZ10, GH18, GLC20,  
 GB12, HYL<sup>+</sup>17, Hsu92, KK09, KGM18,  
 LSV<sup>+</sup>09, LM19, LAB22, LGL16, MVR02,  
 MXM<sup>+</sup>21, MI00, NM98, Par01, Par05, PH20,  
 PP09, PRHP14, RA01, SS01, SL99, SSBW17,  
 SDBD21, SW18, TZ12, Tre06, Tu94, WW12,  
 WCKL19, WSM<sup>+</sup>20, WK00, YNH18, ZHZ12,  
 ZZW21, ZJA16, ZDM20, ZF18].  
**Approaches** [KS04, XW18, ZCO15].  
**Appropriateness** [Zha03]. **Approximate**  
 [Ano06a, BSZ22, Bra99, BC19, FD21, GX01,  
 GF17, HM16, IJ02, ILP19, KGMT06,  
 MMF<sup>+</sup>19, NFMS14, OW12, Pic14, RNHY12,  
 RS01, SG17, TA12, YNTK21].  
**Approximating** [Bor11, CB01].  
**Approximation**  
 [BCE20, BRS<sup>+</sup>08, BRS12, BBvdW16,  
 CKHG15, CJ02, CHW08, CF05, Fea04, GJ09,

GA15, HS18, HB16, Jan06, JL13, KSR19, MPR<sup>+</sup>12, Mil19, Mul98, NTVK12, ONS18, RYY00, RF17b, SLMN20, SY07, TN14a, ZZW21, ZSW22, ZGTG21, ZLW21, ZBY09].

**Approximations** [Bor11, Hes95, HLL07, HWO<sup>+</sup>17, HK98, KSM14, NFM16, PB95, RO94, SLBV18, WM19]. **Approximator** [Hoe10]. **Arbitrarily** [KLH05, Zho05].

**Arbitrary** [EM07, HHL19, OLN11a, OLN11b].

**Architecture** [CCS03, YVMFB03].

**ArcView<sup>TM</sup>** [SCLK<sup>+</sup>00]. **Area** [GGvdV10, XW20]. **Area-Proportional** [XW20]. **Areal** [Hug15, VF09]. **Areas** [JWH16]. **Argumentation** [Hig01, Hob01a, HJT01, Lev01, Liu01, MG01, WZ01, vDM01b]. **ARIES** [EFLT94].

**ARMA** [dLG01]. **Arms** [PRS11].

**Arranging** [Mur99]. **Array** [LVH17].

**Arrays** [MM14]. **Arrows** [PRS11]. **Art** [Hig01, Hob01a, HJT01, Lev01, Liu01, MG01, WZ01, vDM01a, vDM01b]. **Artery** [BM19]. **Article** [Ano01b]. **Artifacts** [BML19]. **Artificial** [PI10]. **ASA** [Wic11b].

**ASIS** [HR11, YM11b]. **Aspects** [BC93, CRL13, EGO92, JMY<sup>+</sup>16, LD11, LPS99, QN00, Tuk93a]. **Assessing** [Laz05, PMB12, RFVJ21, RHM18, TSH16, YKZ18].

**Assessment** [BG00, BGP03, FBG06, KM03, QM04, SK10, SG17, Yan21, YNTK21, ZJRI10, ZCI<sup>+</sup>17].

**Assignment** [MR01]. **Assimilation** [LPS99]. **Assisted** [GdTv96, Wan20, ZGTG21]. **Association** [CTW20, KNN05, MLP07]. **Assumptions** [WW12]. **Asymmetric** [Hen04, LO16, LL15, RB02]. **Asymptotic** [BF02, Hof19, Tho93, XSC19].

**Asymptotically** [VDC21]. **Asymptotics** [BB03, BO05, SR12]. **Asynchronous** [SDL19]. **Atmosphere** [HMN<sup>+</sup>03].

**Atmosphere-Ocean** [HMN<sup>+</sup>03].

**Atmospheric** [LPS99]. **Attracting** [TMvd18]. **Auctions** [SJ05].

**Augmentation** [FCWM17, HW21, Kel11, PKH15, PRS13, RDL07, VDC21, Wu11, vDM01a, TYG<sup>+</sup>20].

**Augmentations** [XMY13]. **Augmented** [Zhu17]. **author** [Tuk93a]. **authors** [FB94].

**Autocorrelated** [PP96]. **Autocorrelation** [CP16]. **Autocovariance** [LPHK16].

**Autocovariances** [McE22]. **Autoencoder** [FX21]. **Autoencoder-Based** [FX21].

**Autologistic** [FP04, MPR<sup>+</sup>12, ZZ08].

**Automated** [FHIT20, TGHL14].

**Automatic** [All13, BJMD13, EN20, HMJ11, HDK<sup>+</sup>20, PGR19, Rap01, RH94, SAT04, Ska02, ZJA16].

**Automating** [Sta94]. **Autoregressive** [DZZ16, HHT21, KC20, MT03, MC05, VM04, WRK11].

**Auxiliary** [FDBS10, MMF<sup>+</sup>19, PL12, Tü08, TW96, WRT21, ZDM20]. **Available** [BCE20].

**Averages** [HCB04, Moc98]. **Averaging** [CGL11, VHSG20, YKW03, YSK<sup>+</sup>10].

**B** [FB94, ERPG11]. **B-Spline** [ERPG11].

**Baccalaureate** [MHB17]. **Backfitting** [HY19, KO04, OR99]. **Backscoring** [Far12].

**Backward** [PRHP14, WC06]. **Baddeley** [FR97]. **Bagplots** [HS10]. **Balancing** [JS20]. **BAMLSS** [UKZ18]. **Band** [BMR15].

**Bands** [DJ04, HO93, Hut02, LJZD05, LS97, RW99].

**Bandwidth** [FG95, GG17, Her97, KO04, MMRMGMG08]. **Barrier** [PL22]. **BART** [PCGM20]. **Bartlett** [Mul98]. **Barycenters** [LZ18].

**Based** [Ano20, ABG<sup>+</sup>21, ACG14, BCD11, Big06, BH02, CHW02, CGEMIR18, CS20, CTB19, CHW08, Chr04, CBC93, De 05, DMR20, DCV10, ERPG11, ES19, EH09, FX21, FRW05, GR12b, GM20, GG17, GH18, HSM09, HK10, HHKS11, HHH12, HB16, IW10, JRS11, JTU03, JO02, KKLN20, KK09, KKK08, LG07, LL12, Li05, LF16, LZ18, LJZD05, LD06, LS97, MMF<sup>+</sup>19, MHDW19, MB18, Mey18, MRCM18, NGH17, OR07, OKL21, PI10, PP05, Pie04, Pos01,

RAM19, SS19, SH03, Sew21, Smi01, SHL12, TSG92, TG13, VM04, WCH20a, Wil96, XBW15, YK09, ZMH07, ZHH08, ZZW21, ZJRI10, ZLWZ16, ZOR12, ZRL14, ZCO15, ZW10, dLG01, FS18, MXM<sup>+</sup>21, VHSG20]. **Bases** [Dob12, Fos01, Kei96]. **Basic** [Tan15]. **Basis** [BRS<sup>+</sup>08, HLL07, KKB21]. **Bayes** [BBW20, DH10, Fri13a, Ho06, KDM16, LMS19, MPR<sup>+</sup>12, NFMS14, SL99, SS05, TNKK16, TNK17, WR05]. **Bayesian** [Ano08a, AB21, ASND19, AVW13, ACCQ19, BMC05, BS19, BC16, BRB17, BSZ22, Bil00, BRS<sup>+</sup>08, BFM18, BHK15, Bra21, BZ97, BHF02, BK03b, BC19, CDM<sup>+</sup>20, CD12, CS99, CCYW16, CD19, CRL13, CGL11, CGR06, CYS09, CRC<sup>+</sup>07, CM13, DV04, De 05, DK18, DGM17, DH03b, DMP14, DCS16, EH05, Eve12, EB02, FDBS10, FK16, FDC<sup>+</sup>19, FD21, FPRW09, FR97, GD21, GD16, GK02, GD09, GHC14, Gol09, GM18, GW93, GQD18, HAC<sup>+</sup>12, HJ04, HK22, Hil11, HMN<sup>+</sup>03, HRM02, HLB<sup>+</sup>21, HDRM05, Ish99, ILP19, JS13, JKD92, JBJ<sup>+</sup>22, JT21, Kar21, KFSL17, KNN05, Kle19, KO05, KSM14, KMQ05, KB20, KC20, KY95, LGS09, LGS13, LB04, LG07, Len03, LCRG21, LF16, LRFK21, LG20, LS05, LHK17, MP16, MWFSG17, MVR14, MKE<sup>+</sup>21, MMF<sup>+</sup>19, MHDW19, MMN<sup>+</sup>13, MW15]. **Bayesian** [MKK18, MV98, MQ17, NMD<sup>+</sup>20, NW10, NG04, NL04, NFMS14, OKL21, PM20, PI10, Par01, PVH05, Par11, PL12, PMI20, Pic14, PL22, PCG<sup>+</sup>14, PDLN18, PSF<sup>+</sup>22, QN00, QM04, RSKZ19, RF17a, RW14, RT21, RL14, RT98, SMS<sup>+</sup>14, SG03, Sco99, SR00, SR12, SG17, SBJ17, SM13, SL10, SX21, SSL17, TDM12, TH09, TPA19, TF20a, TRWB16, TFS20, TNNK20, Tsi02, Tüc08, UKZ18, VHSG20, WW12, Wan08, WD11, WRK11, WTW07, XCSP16, YK01, YKW03, ZBB06, ZCI<sup>+</sup>17, ZDM20, ZICT12]. **Be** [YM11a]. **Beat** [VH17]. **Beautiful** [BY18]. **Becker** [Tuk93a]. **Before** [HV17]. **Behavior** [Dia99, Par11, RT21]. **behind** [SCLK<sup>+</sup>00]. **Belief** [MMA97]. **Benchmark** [GMP04, HLZH05]. **Best** [GK06, KPC02, Mül99]. **Best-Subset** [GK06]. **BET** [DCS16]. **Beta** [DW01, EB02, MS18a]. **Beta-Binomial** [EB02, MS18a]. **Better** [Bri11, DS21, FK11, Gel11a, Gel11b, LT94, Wai11, Wil11]. **Between** [BM99, God01, LT94]. **Beyond** [UKZ18, WM19]. **Bi** [CDM<sup>+</sup>20]. **Bi-Level** [CDM<sup>+</sup>20]. **Biadditive** [dR07]. **Bias** [FG95, Fri13b, GH21, Len09, SZ08]. **Biclustered** [CHSR19]. **Biclustering** [MM14, TW14]. **Big** [BW17, FLY21, HLB<sup>+</sup>21, SBM22, SSBW17]. **Binary** [ADY10, BRB17, FPRW09, LT94, MN97, MM09, MPS92, QN00, QM04, SS06, TL92, TA12, TG13, WKC<sup>+</sup>08, YK01]. **Bingham** [Hof09]. **Binomial** [AC95, BHF02, EB02, MS18a]. **Biological** [FCL10, Mic12]. **Bipartite** [MCF<sup>+</sup>20]. **Biplot** [CGL13]. **Biplots** [GGvdV10, Gre13]. **Bivariate** [AG05, BL04, GMC02, Gu15, GHCU22, HMS97, KL03, Koo98, LGL16, Maa05, MS93a, MHD20, Mül99, WH98]. **BIVAS** [CDM<sup>+</sup>20]. **Black** [CS98, GKBP15, TVZ<sup>+</sup>22]. **Black-Box** [CS98]. **Blind** [Kan20]. **blink** [MKE<sup>+</sup>21]. **Block** [BR02, CC13, DV04, DBS06, ESR<sup>+</sup>14, PKH15, QTV<sup>+</sup>21, RW10, SBT00, SLL22, TH09, Yen20, ZCS<sup>+</sup>19]. **Block-Poisson** [QTV<sup>+</sup>21]. **Block-Wise** [SLL22]. **Blockmodels** [RAM19]. **Blocks** [LBM<sup>+</sup>14]. **Blockwise** [Efr05]. **Board** [Ano12a, Ano15a, Ano16b, Ano17a, Ano18b, Ano92b, Ano92c, Ano92d, Ano92e, Ano93a, Ano93b, Ano93c, Ano93d, Ano94b, Ano94c, Ano94d, Ano94e, Ano95a, Ano95b, Ano95c, Ano95d, Ano96c, Ano96d, Ano96e, Ano96f, Ano97a, Ano97b, Ano97c, Ano97d, Ano98a, Ano98b, Ano98c, Ano98d, Ano99a, Ano99b, Ano99c, Ano99d, Ano00b, Ano00c, Ano00d, Ano00e, Ano13b, Ano14b]. **Boolean** [CSY00]. **BOOST** [KCF21]. **Boosted**

[GH21, WH14]. **Boosting** [ADY10, BMW17, CKPT04, CMJ11, GH21, HR11, HHKS11, LB06, TG10, TG13, Wan13, Wan18, YM11b]. **Boosts** [HLB<sup>+</sup>21]. **Bootstrap** [BP98, CC13, DW02, EN20, Fon19, Hes95, Hut02, KLH99, KS04, LL11, MMRMGMG08, TK99]. **Bootstrapping** [KCO09, Pan99a]. **Both** [SQ07]. **Bound** [GK06, SR00]. **Boundaries** [FKH07, MB18]. **Boundary** [DS94]. **Bounded** [WSM<sup>+</sup>20]. **Bounds** [Coz99]. **Box** [CS98, GKBP15, TVZ<sup>+</sup>22]. **Boxplot** [BC00, RK22]. **Boxplots** [HWK17, HS10, RMR<sup>+</sup>17, SG11]. **Bradley** [CD12]. **Brain** [BM19, Dri08, RHC<sup>+</sup>14, SSL<sup>+</sup>16]. **Branch** [GK06]. **Branch-and-Bound** [GK06]. **Breakdown** [JP95]. **Breaks** [SBM22]. **Bridge** [Fu98, GLC20, MS02]. **Brief** [Fie12, Fri02, Lev12, Lev13b]. **Brownian** [BMR15, Ste02]. **Brunelleschi** [GVBM04]. **Build** [KSR19]. **Building** [BVZ20, HABV06]. **Bump** [DR10, HH01]. **Bumping** [TK99]. **Bumpy** [MMW98]. **Burning** [LCL22].

**C** [HLH15]. **C-MPPCA** [HLH15]. **Calculating** [BPW93]. **Calculation** [BCH05, Coz99, Kab93, McE22]. **Calculations** [Sta95, TA12]. **Calendar** [WCH20a]. **Calendar-Based** [WCH20a]. **Calibrated** [KNS21]. **Calibration** [BRS<sup>+</sup>08, TSH16]. **Can** [MMO01, Zhe17]. **Cancelations** [Wic11c]. **Canceled** [HCK<sup>+</sup>11]. **Cancer** [ZCI<sup>+</sup>17]. **Canonical** [CKT21]. **Capture** [BBLG13]. **Capture-Recapture** [BBLG13]. **Cards** [LYG<sup>+</sup>10]. **Care** [VH15]. **Carlo** [Ano07a, BGD16, BP98, Bro06, BG00, BC19, CB01, Can99, CGMR04, CS99, CF05, Chr04, CRS06, DG14, DH03b, DBS06, DMP14, FBG06, FKH07, Fea02, Fea05, FHIT20, Fis12, FWR12, GS94, Gel95, Gey95, GVDP99, God01, GF16, GLW07, GR08, Gra07, GMP04, GJR05, HT17, Hel04, Hob08, HLH06, HW21, HK98, Ish99, JN04, JB03, JHD21, JS13, JT21, JO02, Kit96, Kle19, LGS13, LSSG15, LYG<sup>+</sup>10, LC01, Lia07, LJN<sup>+</sup>17, MP00, MFMR19, MN97, MDS20, ML08, NJM20, OKL21, PP14, PCP11, PH21, RJLW21, SHC00, SNR17, SS06, Spa05, SBF19, Tan06, Tan15, WJG11, XBW15, YSDJ15, YT99, ZC15, ZZ08, ZJA16, dV08]. **Carlo-Adjusted** [DG14]. **Carlo-Based** [XBW15]. **Carlson** [JKD92]. **Carr** [FB94]. **CART** [WTW07]. **Cartography** [WS02b]. **CARTscans** [NEL04]. **Case** [AvD20, BZ97, HK17, MK92, RNHY12, SSL<sup>+</sup>16, WM03, XNN16, ZICT12]. **Case-Control** [RNHY12]. **Case-Specific** [XNN16]. **Casting** [CSS<sup>+</sup>09]. **Cataloging** [FS99]. **Categorical** [ACC18, Bak92b, FB11, Fri99, LG03, MPS92, SS01, TS13, Bak92a]. **Category** [PGR19]. **Causal** [Hil11]. **Cave** [BCL94]. **CDE** [ILP19]. **cDNA** [YBDS02]. **Censored** [AB17, AE92, BL04, CGL13, De 05, GV01, HJ04, KLH05, KS92, LG92, LS05, Maa05, Pan99b, Tu94, VL09, YNH18, ZJ04, Zho05, ZZL18]. **Censored-Data** [GV01]. **Censored/Truncated** [Zho05]. **Censoring** [DMR20, Ano20]. **Census** [MK92]. **Center** [HR11, YM11b]. **Central** [Ano06a, KGMT06, PSY09]. **Certain** [MS93a]. **Chain** [BG00, CB01, Can99, CS98, Fea02, FHIT20, Fis12, FWR12, GVDP99, God01, GF16, GR08, JS13, JT21, JO02, JV01, LSSG15, MP00, MFMR19, MN97, MDS20, ML08, Nea00, Owe17, SHC00, SK21, SNR17, Tan15, YT99, dV08, Bro06, CF05, CRS06, GS94, Gey95, Gra07, GMP04, GJR05, Hob08, HLH06, JN04, SS06, ZZ08]. **Chains** [Gué03, HK22, HC98, MB04, MDS20, TDH15]. **Challenge** [EFG<sup>+</sup>99]. **Challenges** [Fie12, Goo11, KP03, Mic12]. **Change** [CR08, LKB21, MW04, RL14, ZY21]. **Change-Point** [LKB21, ZY21]. **Change-Points** [CR08]. **Changepoint** [HEF17, HT17, SHL19, TEFH20, YSD13].

**Changepoints** [YK01]. **Changes** [FML19, MW04, NST12]. **Changing** [Gri99]. **Characteristics** [MBM18, MM20]. **Characterization** [ABvS09]. **Characterizing** [MS93a, RMR<sup>+</sup>17, ZH17]. **Chart** [SSP<sup>+</sup>18]. **Charts** [VRH19]. **Cheaper** [SD03]. **Checking** [BWZO20, Par01]. **Chernoff** [GW01]. **Chi** [SPV22]. **Chi-Square** [SPV22]. **Child** [ZJRI10]. **Choice** [CWZ21, FH15, Gho07, Her97, LHC17, Par11, PW14]. **Choices** [CCHM18]. **Cholesky** [Smi95, Smi01]. **Chosen** [Ros12]. **Circulant** [CP18, GF17, HPA14, HKP16]. **Circular** [XW20]. **Circus** [BW17]. **Class** [ACJ21, DH10, JHL09, KGM18, KYW19, LAB22, MHS11, SAT04, WP13, WRT21, ZW10]. **Classes** [SQCK20, SSP<sup>+</sup>18]. **Classical** [HY19]. **Classification** [ADY10, BMO01, BOW02, CS14, DG05, FHVW03, FR97, GTZH16, Gho07, GAZ15, Hen04, Kar21, KL03, KM03, LGS09, LCKL05, MR19, NMD<sup>+</sup>20, SZ08, TMMB20, TL92, Vel08, WR05, Wan13, Wu08, dSCL21]. **Classifiers** [WL13a]. **Cleveland** [Tuk93a]. **Climate** [RS19]. **Clinical** [HS08, WC06, ZCI<sup>+</sup>17]. **Closed** [SY07]. **Closed-Form** [SY07]. **Cloud** [LZ18, MGL18]. **Cluster** [ACG14, Cai99, CW00, Jör09, LCSL14, LFS<sup>+</sup>17, PMS21, RMH21, SN10, TW05]. **Clustered** [CC13, GM15, LRBS03]. **Clusteredness** [RHM18]. **Clustering** [ACC18, ACK19, BCDL17, BRC<sup>+</sup>10, BT18, BK03a, CGEMIR18, CH12, CTDKL21, CL15, CBL20, DCS16, ES19, FRW05, GR12a, GM20, GLW07, HH11, Hea11, Hof19, HLYM15, Hur04, HB16, LG07, LL12, Li05, MR10, MM10, MJ18, Mel16, ML08, MQ15, MSS08, MW14, NMD<sup>+</sup>20, OR07, Pos01, PM16, RT21, SS12, SLL22, Sew21, VC21, WZSF18, WNA20, XP07, YPPM21, ZSK19]. **Clustering-by-Segmentation** [BCDL17]. **Clusters** [DKH06, DCT08, FSMV02, FRW05, FP20, Kou14, VH17]. **Clutter** [MLP07]. **Co** [CBL20, MDC17]. **Co-Clustering** [CBL20]. **Co-Sparse** [MDC17]. **Code** [CH93]. **Coding** [Hes98, JH98]. **Coefficient** [AGV12, CS20, DXL12, KW21, LG20, WH14]. **Coefficients** [BRMC19, CDFB11]. **Cokriging** [HCB04]. **Collaborators** [Ano92f, Ano93e, Ano94f, Ano95e, Ano96g, Ano97e, Ano98e, Ano99e, Ano00f, Ano03a, Ano06b, Ano07b, Ano08b, Ano09a, Ano10a, Ano11a, Ano13a, Ano14a, Ano15b, Ano16c, Ano17b, Ano21]. **Collapse** [SR00]. **Collapsed** [MJVB18, PvD09, VJ15]. **Collinearity** [LWM21]. **Color** [GM93]. **Column** [HM16]. **Column-Sampling** [HM16]. **COM** [CS20, Tie00]. **COM-Poisson** [CS20]. **Combination** [LW07, PGR19]. **Combinatorial** [MVR02]. **Combining** [BRC<sup>+</sup>10, DCV10, EH17, PP07]. **Comment** [Bri11, FK11, Fri14, HR11, Hol93, Kel11, Kos13, McC99, Mur13, Pen17, Tre93, Wai11, Wil93, Wil11]. **Comments** [Wai93, Tuk93a]. **Common** [IKL08, LH95, TEFH20]. **Communication** [RAM19]. **Communities** [SYF17]. **Comparative** [PCP11]. **Comparing** [BCL94, TZ12]. **Comparison** [GB02, GB00, GB04, GR93, HH06a, HP94, KS04, PHK14, SS05, SY07, YBDS02, ZJA16]. **Comparisons** [BC93, HN98, Pie04, Tan15, Wai93, Tuk93a]. **Compatibility** [HC98]. **Competing** [KK09, KSSL21]. **Completion** [CHSR19, CKR19]. **Complex** [ABG<sup>+</sup>21, BY18, Buj04, CP18, CYS09, EM18, Gel04a, Gel04b, GW15, ILP19, SH97, SHMD<sup>+</sup>14]. **Complex-Valued** [CP18]. **Complexity** [ES02, FKLW08, YPPM21]. **Component** [CRGS17, CCFM01, CTB19, Fal99, GW93, GJL<sup>+</sup>10, GAZ15, HLH15, JCZG19, JU00, JTU03, KXY20, KTZQ20, LRB12, LW09, LSH16, LO16, PNLL21, WH17, YLCR19, ZP14, ZCY<sup>+</sup>11, ZHT06].

**Component-Based** [CTB19].  
**Component-Wise**  
 [CCFM01, GW93, YLCR19]. **Components**  
 [BRC<sup>+</sup>10, Dan97, GCKP08, HM11, HM16,  
 JU00, MHH15, Mel16, Par05, PP09, YKZ18,  
 ZHZL19]. **Composite**  
 [BCDL17, CHG16, ESR<sup>+</sup>14, LO16].  
**Composition** [FQH16]. **Compositional**  
 [OPV22]. **Compound** [QYZ16].  
**Compressed** [HM20]. **Compressing**  
 [Bra02]. **Comput.** [Bak92a]. **Computation**  
 [BG92, BSZ22, BC19, CDP04, Cli05,  
 DGM17, FF94, GKT18, Gen92, GB02,  
 GD09, GG17, HAC<sup>+</sup>12, HHC03, HMN<sup>+</sup>03,  
 ILP19, JRS11, JKD92, JP95, KTS17, KY95,  
 LH95, LMM19, LH02, Mar10, MMF<sup>+</sup>19,  
 NFMS14, Pic14, RDZ10, SG17, Smi05,  
 Som98, Spa05, SWC<sup>+</sup>10, TW96, Wan94,  
 WNA20, YMG21, Yua08]. **Computational**  
 [Ano06a, Ano07a, Ano08a, Ano12b, CH12,  
 CRL13, CPV03, GK02, GV01, HKS12,  
 JMY<sup>+</sup>16, KGMT06, LD11, LPS99, LG92,  
 NFM16, OLN11a, QN00, RT98, SY02,  
 Wat11, Weg95]. **Computationally**  
 [BRS<sup>+</sup>08, BRS11, BRS12, GH18, HEF17,  
 KLH99, SS16, ZZL18]. **Computations**  
 [FCL10, GAS20, HB98, WFS11]. **Compute**  
 [LSV<sup>+</sup>09, SD03, SH97]. **Computer**  
 [BCE20, Dri08, GA15, GdTv96, HIT99,  
 JV01, Kab93, PW14, WL02, ZLR18].  
**Computer-Aided** [HIT99].  
**Computer-Assisted** [GdTv96].  
**Computers** [Šev04]. **Computing**  
 [Bak92b, BGD16, FCL10, GDS02, GK06,  
 GI00b, GW01, IJ02, JO02, Lan00, LS05,  
 Mül99, NP01, RTL07, Rup92, SS05, SRE06,  
 YZ13, YZ06, Bak92a]. **Concave**  
 [GT11, Tad17]. **Concave-Convex** [GT11].  
**Concavity** [ES98]. **Concept**  
 [LZ18, YSK<sup>+</sup>10]. **Concepts** [MS93a].  
**Conclique** [KKLN20]. **Conclique-Based**  
 [KKLN20]. **Concurvity** [GKZ10].  
**Conditional** [BCH05, Bra99, CB01, Che07b,  
 CDFB11, EC17, FN16, Fri99, GKBP15,  
 GQD18, Hes98, HBG96, IL16, JO02, LM19,  
 Mey18, Mil19, MS18b, MW14, SG20, WW12,  
 ZMH07, vIM97]. **Conditional-Potts**  
 [MW14]. **Conditionally** [DZZ06, SMS<sup>+</sup>14].  
**Conditioning** [Gey95]. **Conditions**  
 [TRWB16]. **Confidence**  
 [CDP04, DJ04, EN20, FSR20, Fon19, GJ09,  
 GW93, GB12, HO93, HMPP19, Hut02,  
 JWH16, KLH99, KHM05, KS04, Kwo98,  
 LT94, LH95, LJZD05, LS97, MS18b, RO94].  
**Confident** [Ros93]. **Configurations**  
 [RG09]. **Confounded** [LH15c]. **Conic**  
 [GG20]. **Conjugate** [KN97, LB06].  
**Connected** [ZC15]. **Connecting** [Tie00].  
**Connectivity** [SMN15]. **Conquer**  
 [BCD11, LJN<sup>+</sup>17, RAM19, XSC19].  
**Consensus** [NJM20, RJLW21, XP07].  
**Consider** [Kos13]. **Consistency**  
 [KMOS92, Tar99]. **Consistent**  
 [HCG02, Kan20, OR99, SBZ13]. **Constant**  
 [GN17, Lee02, WLZB07, ZF18]. **Constants**  
 [SRE06, dV08]. **Constrained**  
 [CDP04, CGEMIR18, CT01, GKZ18, GM15,  
 GBW17, Hof00, LJZD05, PA14, TRWB16,  
 ZBS<sup>+</sup>21, ZL13]. **Constraint**  
 [HHGG01, Wil96]. **Constraint-Based**  
 [Wil96]. **Constraints**  
 [BH01, CGH99, EM00, HP99, LL15, LWZ14,  
 OC01, Ros17, SMN15, ZNR21, WDB96].  
**Constructing** [HM02]. **Construction**  
 [DS94, EN20, FSR20, HMPP19, ZKS22].  
**Constructions** [VN18]. **Contaminated**  
 [PM16]. **Contamination** [SK10].  
**Contingency** [EC17, Fis12, Fri00, HM02,  
 LPM98, Sta95, VT94]. **Continuous**  
 [Big06, BHS00, CMN21, CBL20, Fon19,  
 Lia07, PM20, Zha07]. **Contour**  
 [BL17, Lia07]. **Contrast** [Mül99].  
**Contrasts** [HH06a]. **Contribution** [Gre13].  
**Control** [BCS96a, BGLM18, GPR99, HV19,  
 LX16, LR04, MDS20, RNHY12]. **Controls**  
 [CB97, MR01]. **Conventional** [QS09].  
**Convergence** [AE92, BF02, BDR97, BG98,  
 BG00, BGP03, Can99, CKT21, GVDP99,



GM20, PMB12, RS01, SC92, TH09, VS17]. **Convex** [AE92, BGLM18, CL15, Coz99, GT11, HWS16, HKP16, Jon98, LJ19, Mül99, Pan99b, Som98, WZSF18, WNA20, YT21b]. **ConvexLAR** [XWZ15]. **Convolution** [ZW10]. **Convolution-Based** [ZW10]. **Convolutions** [LCSL14]. **Cook** [Gel17]. **Coordinate** [LPJ13, Mou09, PW15, SBT00, YH17, ZYKC08]. **Coordinates** [Far12, RMWH17]. **copCAR** [Hug15]. **Copula** [AB21, BC16, Gu15, LMS19, MD13, SLMN20, TPA19, TGM<sup>+</sup>14, VN18]. **Copula-Type** [TGM<sup>+</sup>14]. **Copulas** [AG05]. **Cordillera** [RHM18]. **Corners** [LHC17]. **Corrected** [CB20]. **Correction** [Ano92a, Ano94a, Ano96a, Ano96b, Ano00a, Ano01a, Ano06a, Ano07a, Ano08a, Ano16a, Ano18a, Ano19a, Ano19b, Ano19c, Ano19d, Ano20, Bak92a, Gel17, Len09, LR15, OLN11a, SZ08]. **Corrections** [Tho93]. **Corrective** [SS11]. **Correlated** [ADY10, HY17, KDM16, LP07, SBZ13, TZ12, ZBB06]. **Correlation** [CAR<sup>+</sup>10, CL12, CKT21, Fal99, GDM14, Gra13, HM09, HWQ15, LP14, LD06, MMGG16, SPV22, TDM12, Tro05, ZBB06, ZRL14]. **Correlations** [YMG21]. **Correspondence** [dLM04]. **CorrPlot** [MMGG16]. **Cost** [Far92, NFM16, Wan13]. **Cost-Sensitive** [Wan13]. **Costs** [BRS11]. **Count** [Wan20, ZZZS17]. **Counting** [Fis12, ZBY09]. **Counts** [MOPW20]. **Coupled** [TFS20]. **Covariance** [Ano12b, AAN17, CJ09, CHH10, Cli05, DY09, DT13, DRG19, FGN06, GD16, HLH15, HAC<sup>+</sup>12, HLL07, KSM14, LRB12, LCB19, LWZ14, MWDR21, NT17, ONS18, RLZ10, SR12, SY16, SLBV18, Ste13, WL09, WP13, YT21b, vW19]. **Covariance-Guided** [HLH15]. **Covariances** [GF17]. **Covariate** [BCST13, SHFT18]. **Covariates** [JS20, MQR11, RAM19, ZDM20]. **Covariation** [Ram17]. **Covariogram** [OM19]. **Coverage** [HGK10, MS18b]. **Cow** [LYHM15]. **Cox** [CCL21, JK00, Pan99b]. **Crack** [GVBM04]. **Create** [FF94]. **Creating** [BY18]. **Creation** [Wil00]. **Credible** [CS99, SHL19]. **Credit** [BO05]. **CReSS** [SHMD<sup>+</sup>14]. **CriSP** [HH01]. **Criterion** [CS14, LPPT17, RW10, ST99, SHL12]. **Criticism** [Wic13]. **Cross** [BEGS17, CSS<sup>+</sup>09, FP20, Gv97, Gu92, GX01, KO04, KPC02, LY16, LHL03, SD03, TSG92, XSC19, YK09, YF14, Zha03, vdWvNR21]. **Cross-Entropy** [BEGS17]. **Cross-Validating** [Gu92, GX01, Zha03]. **Cross-Validation** [CSS<sup>+</sup>09, FP20, Gv97, GX01, KO04, KPC02, LY16, LHL03, SD03, TSG92, XSC19, YF14, vdWvNR21]. **Cross-Validations** [YK09]. **Crowd** [CCHM18]. **Crowd-Sourced** [CCHM18]. **Cubature** [MHDW19]. **Cubic** [Wan08]. **Cucumbers** [FW11]. **Cumulant** [Sta95]. **Cure** [ZZL18]. **Curriculum** [Zhe17]. **Curse** [LCL22]. **Curve** [DGW09, FM94, FDBS10, Mül99, SBEG94, TZ12, WH98]. **Curved** [HH06b]. **Curves** [Big06, DJ04, GR12a, LX16, PHK14, SG03, Seg94, STZM09]. **Cut** [Hof19]. **Cycles** [FCL10]. **Cyclic** [GHCU22]. **D** [Dri08, LTw<sup>+</sup>10, MBGO11, MKE<sup>+</sup>21]. **d-blink** [MKE<sup>+</sup>21]. **DAGs** [MC18]. **Daily** [WCH20a]. **Damped** [HV19]. **Daniel** [FB94]. **Data** [ACC18, AE92, Bak92b, BC00, BY18, BS19, Bau19, BML19, BM19, BL04, BK03a, BB06, BH01, BFE<sup>+</sup>03, Bri94, BW17, BCS96b, Buj04, BSL<sup>+</sup>08, CRGS17, CR99, CC13, COvS19, CCH16, CH99, CCHM18, CB97, CBL20, CSK10, DG18, DDM20, De 05, DH03a, Don17, DH03b, DCS16, EH17, ES96, EC14, EFLT94, FLY21, Far92, Far99, FS99, FCWM17, FB11, FN16, FPRW09, Fri99, GEGM03, GDM14, GD16, Gel04a, Gel04b, GV01, GRG10, Goo99, GY07, GW15, Gu92, GX01, Gu15, GG20, GF17, GLMZ15, HQT92, HLP07, HJ04, HHC03, HYL<sup>+</sup>17, Hic17, Hig01, HY17, Hob01a, Hof09, HV17,

HWK17, HJ17, HWQ15, HW21, HCG02, HLL07, HCZMH21, Hub00, HJT01, Hug15, Huh95, HDK<sup>+</sup>20, Hur93, Hur00, Hur04, HJNR19, HS10, IG96, ILP19, JBJ<sup>+</sup>22, JS20, Jör09, JK21, KDM16, KB99, KT03]. **Data** [KSSL21, Kei96, KTZQ20, Kle08, KLH05, KS92, KMQ05, KB20, KKB21, Kus06, LCV20, LCL22, LHL21, Laz05, LRB12, LAJ13, LYHM15, LG03, Lev01, LPS99, LRBS03, LO16, LG92, LP14, Liu01, LP07, LS05, LSF18, LH00, LQ21, MK20, MHH15, Maa05, MR10, MM10, MC17, MM14, MCF<sup>+</sup>20, MMO01, MN97, MM09, MHB17, Mci99, MPS92, MPS21, MK92, MG01, MGL18, Mou09, MHS11, MW04, MC05, NM98, OFR<sup>+</sup>18, OPV22, PKH15, Pan99b, PRS13, Par11, PP07, PP09, Pen17, PMI20, PAP22, QGL09, QTVK18, Rho03, ROY20, RRH18, RDL07, SH18, SS12, SJH<sup>+</sup>15, SK10, SR00, Seg94, SG00, SH03, SS01, SSB<sup>+</sup>14, SSBW17, SDBD21, SDL19, SC98, Ste92, SRL<sup>+</sup>00, SCB98, TYG<sup>+</sup>20, THSM<sup>+</sup>20, THSM21, TW14, TZ12, TQ16, TRS97, Tre06, TU11, Tu94, TG10, TS13, UHHS96]. **Data** [VF09, VDC21, WW12, WLZB07, WH17, Wan20, WCH20b, Weg95, WS02a, WM03, WBS21, WCDS03, Wic11b, WZ01, Wu11, WL13b, WW19, XP07, XCSP16, XW20, XL17, YBDS02, YMB14, YL95, YL99, YLM17, ZSK19, ZZW21, Zha97, ZJ04, ZCI<sup>+</sup>17, ZZZS17, ZW04, Zhe17, Zho05, ZP14, ZZL18, ZW10, ZICT12, ZCY<sup>+</sup>11, vDE19, vDM01a, vDM01b, Bak92a, Kel11]. **Data-Adaptive** [LO16, vDE19]. **Data-Dependent** [WLZB07]. **Data-Driven** [NM98]. **Database** [Lum19]. **Databases** [KLSR05]. **Datasets** [Ano12b, Bra02, BKM99, CW00, FS99, FRW05, FGN06, GMF16, Goo99, GB04, HM16, HS18, Hub99, HB16, IW10, KP03, KSM14, LCRG21, NBH<sup>+</sup>15, Par18, Pos01, SS12, SS16, TNKK16, XW18]. **Day** [YL99]. **Dealing** [GKZ10]. **Deblurring** [Kan20]. **Decision** [BK03b, DZfZ18]. **Decoding** [PAP22]. **Decomposable** [PAP22, TG09]. **Decomposition** [HLW22, HJNR19, MPS17, Smi01, YMB14, ZMSZ07]. **Decompositions** [GKT18, GB04, HAC<sup>+</sup>12, HO10, MPS21]. **Deconvolution** [LS04, OC01, SMS<sup>+</sup>14, YASR20]. **Deep** [CGLW21, FX21, KNS21, TNNK20]. **Default** [GD09, Rob19]. **Defect** [GM93]. **Defined** [FPRW09, TA12]. **Definite** [AHNC13, COvS19]. **Definition** [BF02]. **Deformations** [SJH<sup>+</sup>15]. **Degree** [ABG<sup>+</sup>21]. **Delay** [DPS11]. **Delayed** [ER21, HCK<sup>+</sup>11, QTVK18, SGH17]. **Delayed-Acceptance** [SGH17]. **Delays** [Wic11c]. **Deletion** [OSR<sup>+</sup>18]. **Deletion/Substitution/Addition** [OSR<sup>+</sup>18]. **Delft** [GdTv96]. **Delineation** [DCT08]. **Delta** [FR97]. **Demand** [WH14]. **Demography** [Bri94]. **Dendograms** [MN97]. **Dendrogram** [EH15]. **Denosing** [Gao98, MQ15, SBT00, SM19]. **Dense** [GM15]. **Densely** [LQ21, ZC15]. **Densities** [BMO01, BRS11, BRS12, Bor11, DW01, ES98, HBG96, LS05, SPW95, WL02, vDE19]. **Density** [ACG14, BJMD13, CGH99, CRL13, GW18, GMTK13, GMC02, GG17, Gu15, GQD18, HO93, HP99, HMW06, Ho06, HB16, IL16, Kle04, Kle06, KS08, KS92, Koo98, KS04, LW19, Len03, Lia07, LLZ09, MS93b, MV98, MSS08, NTVK12, Ooi02, RW10, SMS<sup>+</sup>14, SN10, Tok07, TGM<sup>+</sup>14, WCKL19, YASR20]. **Density-Based** [ACG14, HB16]. **Dependence** [CMG21, CM13, HM14, MPR<sup>+</sup>12, MS93a, MC18, OM19, QM04, VHSG20, ZH17]. **Dependencies** [Moc98]. **Dependent** [GRG10, Hob08, Hoo07, LG03, SG20, WLZB07]. **Depicting** [HM11]. **Depth** [COvS19, NGH17, ND21]. **Depth-Based** [NGH17]. **Derivative** [BRS12, Ste12]. **Derivative-Free** [BRS12]. **Derivatives** [CR08, SQ07]. **Descent** [PW15, YH17, Zha07]. **Describing** [DG14].

**Description** [TL92]. **Design** [BCS96a, BB03, DMP14, ES96, GM18, GP11, Gra07, HB92, HLZH05, HS08, MXM<sup>+</sup>21, SHL12]. **Design-based** [MXM<sup>+</sup>21]. **Designing** [HK17]. **Designs** [CLHW19, DGM17, HK06, KSR19, LACRM06, MJ18, MHDW19, Rya03, TN14b, WYZ19]. **Destination** [LA12]. **Detect** [CAR<sup>+</sup>10, HCZMH21, LN09, Qiu02]. **Detected** [WJZ09]. **Detecting** [FML19, FSMV02, MLP07, MM09]. **Detection** [BH02, CR99, CC18, DG18, GM93, GG20, HL06, HEF17, JV01, KH21, LCSL14, LKB21, OBGC21, PP07, QY97, SBM22, SSL<sup>+</sup>16, SMN15, SQ07, THSM<sup>+</sup>20, THSM21, TEFH20, WWG<sup>+</sup>97, ZB10]. **Detections** [MT03]. **Detectors** [QS09]. **Determinant** [Hut02]. **Determination** [HS08]. **Determining** [HM11]. **Deterministic** [BCE20, BB21, GR99, HRV12, PW14, PWPS97, RW14, Rou08, WJG11]. **Developing** [MC17, MDD<sup>+</sup>12]. **Development** [IKL08, ZJRI10]. **Developmental** [RHC<sup>+</sup>14]. **Developments** [Tie96]. **Deviance** [BY04]. **Diagnosing** [BDR97, Jan06, WW12, WJZ09]. **Diagnosis** [HIT99, LL11]. **Diagnostic** [GVDP99, LWM21, PV04, SS11, dSM04]. **Diagnosics** [BCST13, CK08, FB11, Hoo07, LHC17, NY14, RRSY19]. **Diagonal** [ROY20]. **Diagonally** [KXY20]. **Different** [GU13a, GY07]. **Differential** [CHW12, CGH17, Sin02]. **Differentially** [BRMC19]. **Differentiation** [Ska02, Smi95]. **Difficulties** [Lee02]. **Difficulty** [CCHM18]. **Diffuse** [NM98]. **Diffusion** [BB21, RIC<sup>+</sup>16, SY07]. **Diffusions** [Gol09, PRS13, WRT21]. **Dimension** [CL09, Hen04, HV05, HY17, KH21, LMM19, SY16, Vel08, WY15, XY14, YC04, ZYKC08, ZYZ10]. **Dimensional** [ACJ21, AG18, BB06, BCS96b, CLLZ17, CB97, DDM20, EO95, FM12, FSMV02, GKT18, GF16, HLP07, HM09, HM11, Hoo07, HO10, IW10, IL16, ILP19, JT21, KDM16, KB20, Kus06, LCV20, LCL22, LB15, LRFK21, LACRM06, LP14, MM14, MMZ22, MBS04, MS18b, NY14, NYC15, NFMS14, OFR<sup>+</sup>18, PH21, PP07, PW15, Pos95, RRSY19, RSKZ19, ROY20, SMB14, SBE17, SWZ14, SLMN20, SHFT18, SRL<sup>+</sup>00, THSM21, TSH16, WLWM16, WCM21, XGTB18, XL17, YMB14, YKW03, YF14, YWL<sup>+</sup>15, ZP14, ZCY<sup>+</sup>11, FB94, vdWvNR21]. **Dimensionality** [FX21, LCL22, SBJ17, YPPM21]. **Dimensions** [HM14, Oeh98, PMI20, SLR16]. **Diracs** [CKPT04]. **Direct** [CS18, WLZD11, XMY13]. **Directed** [ABG<sup>+</sup>21, KB08]. **Direction** [CS98, LB06, WLWM16]. **Direction-Projection-Permutation** [WLWM16]. **Directional** [ES19, KGM18, RRH18, SJH<sup>+</sup>15]. **Directions** [PP07, Tie96, YZ07, MR10]. **Dirichlet** [CD19, DH03b, GK02, GHW02, IJ02, JN04, MM98, MR16, Nea00, WD11, XD20, ZNYJ14]. **Discontinuous** [Koo97]. **Discoverability** [BML19]. **Discovering** [WL09]. **Discovery** [BGLM18, HCZMH21, HDK<sup>+</sup>20, LWM21]. **Discrete** [BCDL17, CWZ21, Gué03, KK00, LMS19, MVR14, NS94, RF17b, RO94, Yan21, ZJRI10, ZL10]. **Discrete-Margined** [LMS19]. **Discretely** [SY07]. **Discriminant** [Fos01, HV05, KL03, LW08, QLCZ15, RA01, ROY20, ZH03]. **Discriminating** [DGM17]. **Discrimination** [ACJ21, HLD<sup>+</sup>13, LMST18, LAJ13, WZ16]. **Discussion** [BC93, Buj04, Car94, DL95, Eld94, Gel00, GH00, Hig01, Hob01a, HJ17, HJT01, Kie00, Lev01, Liu01, Men00, MG01, Oue94, Pre95, Wu00, WZ01, dLM00, FB94]. **Disease** [DCT08, GRM09]. **Disparities** [DASR08]. **Dispersed** [AC95]. **Dispersion** [LACRM06, Rup92]. **Display** [BC00, BCS96a, Cle93a, Cle93b, EO95, Fri02, Hol93, HO10, Tre93, Wil93].

**Displaying** [Eic94, GMF16]. **Displays** [CCH16, Fri99, HH06a]. **Dissecting** [FCL10]. **Dissimilarities** [OR07]. **Dissimilarity** [ACC18, HH11]. **Distance** [CS14, CCHM18, FHTG05, HLD<sup>+</sup>13, LMST18, SPV22, SY16, WZ16, dR07]. **Distance-Weighted** [HLD<sup>+</sup>13]. **Distances** [GR93, HR05]. **Distinct** [BR02]. **Distortion** [Jör09]. **Distributable** [KYW19]. **Distributed** [AM07, FLY21, KLSR05, LHL21, MKE<sup>+</sup>21, SDL19, SX21, XSC19, ZLW21]. **Distribution** [ABG<sup>+</sup>21, AE92, AR06, BHF02, Bre04, CS20, EB02, FIK19, GW01, HR05, HK22, Hof09, HZ21, Huh95, KLH05, Maa05, MMO01, MOPW20, Mey18, PP05, PLW01, RF17b, TMMB20, WWG<sup>+</sup>97, Yan21, ZKS22, dSM04]. **Distributional** [HMPP19, KNS21, MS18a, MKK18]. **Distributions** [CHG16, EGO92, EM00, GDM14, GB00, GD09, GM18, GR08, Gou98, GHCU22, HC11, Hes98, HPZ21, KR17, KGM18, KW10, LS93, MS93a, MT00, PI10, PH20, RNM18, SAT04, SBF19, WW08, WIR01, ZSW22, ZL10]. **Divergence** [RF17b]. **Diverse** [WCDS03]. **Divide** [BCD11, LJJ<sup>+</sup>17, RAM19, XW18, XSC19]. **Divide-and-Conquer** [LJJ<sup>+</sup>17, RAM19, XSC19]. **DNA** [Hob08]. **Do** [KB99]. **DOBIN** [KH21]. **Documents** [FHTG05]. **Domain** [JCZG19, McE22, MPS21, ZJRI10]. **Domain-Based** [ZJRI10]. **Dome** [GVBM04]. **Dominant** [GK97, KXY20]. **Dotplot** [CH93]. **Double** [ZBY09]. **Double-Saddlepoint** [ZBY09]. **Doubling** [MT00]. **Doubly** [PH20, SBF19, YT21a]. **Drift** [YSK<sup>+</sup>10]. **Driven** [NM98, Paa99]. **Dropout** [ZDM20]. **Dual** [AT16, OPT00]. **Dually** [HK10]. **Dylan** [GI00a]. **Dynamic** [BRB17, CKHG15, CPV03, CD14, Dob12, EO95, FIK19, FSMV02, HMW06, HABV06, Joh13, MA19, SG05, SNR17, SCB98, WNA20, ZLR18, ZY21]. **Dynamical** [Dri08, SSBW17, Tre06]. **Dynamically** [BS19, Kle19, LA12]. **Dynamics** [LSSG15]. **Early** [Wat11]. **Earth** [KB99]. **Earthquake** [CH99]. **Easily** [KYW19]. **ECM** [vIM97]. **ECM-Type** [vIM97]. **Ecosystems** [GRVE18]. **Edge** [QS09, Sew21]. **Edgeworth** [Kab93]. **Editor** [Loc11]. **Editorial** [Ano92f, Ano93e, Ano94f, Ano95e, Ano96g, Ano97e, Ano98e, Ano99e, Ano00f, Ano03a, Ano06b, Ano07b, Ano08b, Ano09a, Ano10a, Ano11a, Ano13a, Ano13b, Ano14a, Ano14b, Ano15b, Ano16c, Ano17b, Ano21, Edd92, Lee14, LTW<sup>+</sup>10, Lev11, Lev12, Lev13a, Lev13b, Sco03, vD08, Ano92b, Ano92c, Ano92d, Ano92e, Ano93a, Ano93b, Ano93c, Ano93d, Ano94b, Ano94c, Ano94d, Ano94e, Ano95a, Ano95b, Ano95c, Ano95d, Ano96c, Ano96d, Ano96e, Ano96f, Ano97a, Ano97b, Ano97c, Ano97d, Ano98a, Ano98b, Ano98c, Ano98d, Ano99a, Ano99b, Ano99c, Ano99d, Ano00b, Ano00c, Ano00d, Ano00e, Ano12a, Ano15a, Ano16b, Ano17a, Ano18b]. **Education** [GdTv96]. **Effect** [CC13, CTDKL21, GMF16, GM05, HM09, Laz05, LSFI18]. **Effective** [CW00, HABV06, KCF21, ZYKC08]. **Effects** [BCST13, BT18, CZ02, DH10, ERPG11, EC14, Guh08, HC11, HYL<sup>+</sup>17, HDK<sup>+</sup>20, JWH16, KW01, KK09, LPJ13, LHC17, LHL03, MKK18, NLF<sup>+</sup>06, PB95, PLW01, RYY00, SY02, Ska02, SX21, TH09, TG13, VL09, ZBS<sup>+</sup>21, vD00]. **Efficiency** [JB03, YM11b, HR11]. **Efficient** [AB17, AT16, BG92, Béd08, BRS11, CD12, CC18, CDFB11, DGM17, DBS06, FQH16, FDC<sup>+</sup>19, FCWM17, FSR20, FWR12, GD09, GH18, HHL19, HMJ11, HEF17, HYL<sup>+</sup>17, Hes95, HS08, KTS17, KFSL17, KCF21, KLH99, KC20, LB15, LGL16, Owe17, PNLL21, PLW01, PC06, PSF<sup>+</sup>22, Rou08, SM19, SK21, SLBV18, SNR17, Smy02, SS16,

TDM12, WB18a, YZ13, YZ06, Yua08, ZR21, ZZL18, vD00]. **Eigenvalue** [EM00, GBW17, JAJ19, LWZ14]. **Elastic** [Cul13, Hel21, QYZ16, YH17]. **Elastic-Net** [YH17]. **Elder** [FB94]. **Electrophoresis** [CKPT04]. **Element** [Mey18]. **Elemental** [SH00]. **Elimination** [Ste95]. **Ellipsoid** [WR93]. **Ellipsoids** [EM07]. **Elliptical** [LFZ97]. **EM-Like** [BCH09, HV19]. **EM-Type** [vD00]. **Emacs** [RHS<sup>+</sup>04]. **Embedded** [GW15]. **Embedding** [CP18, GF17, HPA14, LPPT17]. **Embeddings** [HKP16]. **EMICM** [AB17]. **Empirical** [BBW20, CVA08, CL12, Fos01, HO93, Huh95, JS95, Laz05, MS93a, PP05, SL99, SS05, Tan15, Yan21, Zho05, WDB96]. **EMS** [FSB11]. **Emulation** [PH20]. **Emulators** [Rou08]. **Enabling** [CCH16]. **End** [MKE<sup>+</sup>21, PRS11, SCLK<sup>+</sup>00]. **End-to-End** [MKE<sup>+</sup>21]. **Endogeneity** [CGJ09]. **Engine** [Paa99]. **Enhanced** [SSP<sup>+</sup>18]. **Enhancement** [SSL<sup>+</sup>16]. **Enhancing** [BML19]. **Ensemble** [DCS16, LZ18, TSH16, UVM18]. **Ensembles** [Eld03, RMR<sup>+</sup>17, XZ12]. **Ensembling** [ACC18]. **Entity** [MKE<sup>+</sup>21]. **Entries** [CBL20]. **Entropy** [BEGS17, LL15]. **Enumerating** [TG09]. **Envelope** [CZ16, KN97]. **Environment** [FF94, Lan00]. **EOV** [Ano12a, Ano13b, Ano14b, Ano15a, Ano16b, Ano17a, Ano18b]. **Epidemic** [FCWM17, ZY21]. **Equation** [KC20, LG03, SW18]. **Equations** [ACS17, BMW17, CHW12, CGH17, CL12, CTW20, ER04, LFS<sup>+</sup>17, Sin02, SS16]. **Equivalence** [MOPW20]. **ERGMs** [HHH12]. **Ergodic** [DH10]. **Erratum** [Ano12b]. **Erroneous** [DR18]. **Error** [HS08, JH98, KLH05, LR05, RFVJ21, SM13, SHFT18]. **Errorfully** [ASPL21, PSTV15]. **Errors** [BBvdW16, CRC<sup>+</sup>07, PP96, SMS<sup>+</sup>14, TEG19, YASR20, ZHJ16]. **ESCV** [LY16]. **Estimate** [GH21, PLIK02, Ram17]. **Estimated** [RW99]. **Estimates** [Fri00, KO04, Kle04, Kle06, LPM98, Mar10, SBY06, WB18b, YZ06, Yua08]. **Estimating** [ACS17, AG18, BMW17, CL12, CTW20, ER04, EGO92, FP20, GLC20, Gué03, HL03, HWQ15, HJR03, HBG96, IP04, Kou14, Lee02, LKW09, LFS<sup>+</sup>17, LSF18, MM98, Mai97, Moc98, PMS21, Rya03, Sha14, SW18, SN10, SS16, WCKL19, YP20, YZ07, dSM04]. **Estimation** [AG05, ABG<sup>+</sup>21, AE92, ASPL21, AAN17, AG18, BEGS17, BCH09, BOW02, BBLG13, Bre04, BR02, CHW02, CHW12, CCHS08, CSY00, CKNK06, CJ09, CHH10, CP16, CS99, CH16, CGH99, CR08, CG07, CGJ09, CRL13, CZ16, CDFB11, DY09, DT13, DZ99, DH10, DGW09, DIR02, Efr05, ESR<sup>+</sup>14, Eve12, Fos01, FKLW08, FP04, Fri13a, FN04, GM15, GD16, GW18, GN17, GK10, GMTK13, GMC02, Gou98, GPR99, Gu15, GMP04, GRM09, GG20, HO93, HP99, HHGG01, HMW06, HSM09, HC11, HK22, Her97, Ho06, Hsi99, HLL07, IL16, JRS11, JW08, Jon98, JAJ19, Kar21, KCSA20, KS08, Koo97, KS92, Koo98, KS04, KKS17, KW10, LW19, Len03, Lia07, LPHK16, LRR20, LY16, Lin99, LTW07, LLZ09, LWZ14, LP07, LMS19, LVH17, MP00, MWFSG17, MVR14, MMZ22, MBGO11, MRCM18]. **Estimation** [MV98, MSS08, NT17, NFM16, NTVK12, OPV22, PA14, PP07, PP09, PLW01, PWPS97, Pro06, RLZ10, SLR21, SBEG94, SR12, SQCK20, SL99, SNR17, Sin02, Ska02, SS06, SH00, SPW95, SBR10, SSL17, TCCSB10, Tok07, VM04, WB18a, WLZB07, WP13, WZW19, WH98, WYL14, WY15, XBW15, YNH18, Yen20, YSDJ15, ZHZ12, ZRL14, ZL16, ZY21, ZKS22, ZL13, ZZL18, ZW07, ZW10, dLG01, dV08, vDE19]. **Estimations** [Kwo98]. **Estimator** [DXL12, KLH99, Len09, LCB19, LCWW17, OR99, QTV<sup>+</sup>21, SBWZ08, SK21, Tad17, ZJ04, vW19]. **Estimators** [FM94, GG17, HO99, JP95, RDZ10, Rup92, TGM<sup>+</sup>14, Wan94, WJZ09, YT99]. **Eulerian**

[HO10]. **Evaluating** [CH12]. **Evaluation** [BB21, CS18, DKH06]. **Event** [FCL10, MDS20]. **Event-Chain** [MDS20]. **Events** [LG20]. **Evidence** [Fri13a, KSR19]. **Evolution** [Hob08]. **Evolutionary** [Glu04, GLW07, Mey03, SS19]. **Exact** [BCH05, CB01, CP18, GŠP<sup>+</sup>06, HVRA96, HGK10, Hut02, KN06, LH95, LH02, MAJ<sup>+</sup>98, MPS92, PP14, QTV<sup>+</sup>21, SLR16, Sta95, Ste02, TA12, VT94, VDC21, WRT21]. **Examination** [MK92]. **Examples** [Bri94, RR09]. **Exciting** [CH16]. **Exhaustive** [YK09]. **Exists** [PLIK02]. **Expanded** [XCSP16]. **Expansion** [JHD21, LD06, Sin02]. **Expansions** [BHF02, CBC93, EB02, GJR05, Kab93]. **Expectation** [Fos01, GKBP15, Hob08, LM19, SDL19, YSD13]. **Expectation-Maximization** [YSD13]. **Expectations** [JO02]. **Expected** [FN16, Rya03]. **Expectile** [MP16]. **Expecting** [KB99]. **Expensive** [BRS<sup>+</sup>08, BRS11, BRS12, SGH17]. **Experiences** [MC17]. **Experimental** [CLHW19, JS20, Rya03]. **Experiments** [BGL18, GM18, GA15, HLZH05, PW14, ZLR18]. **Expert** [Rap01]. **Explanation** [MMA97]. **Explicit** [MWDR21]. **Exploration** [BJMD13, HH11, HL06, MHS11, WCH20b]. **Exploratory** [BK03a, Buj04, CRGS17, DDM20, GEGM03, Gel04a, Gel04b, LCKL05, LH00, NAB16, PLH10, Pos95, SMK15, SC98, TU11]. **Exploring** [BB06, CH93, Far99, Huh95, HOD22, Kei96, LX16, MMGG16, OM19, Wic11a]. **Expo** [Wic11b]. **Exponential** [BMO01, BFM18, CL09, Gou98, GPR99, HH06b, STM15, Sue12, TF20a]. **Expression** [CAR<sup>+</sup>10, Jör09, XP07]. **Extendable** [BY18]. **Extended** [Sin02]. **Extending** [CM08, Fri99, Pan99b, SVC<sup>+</sup>19, YZ07]. **Extensible** [Mar96, Saw96]. **Extension** [HK10, RNM18, SS12, XWZ15, VT94]. **Extensions** [ZYKC08]. **Extract** [Bau19]. **Extract-Transform-Load** [Bau19]. **Extracting** [FW11, Rho03]. **Extraction** [TG10, ZH03]. **Extrapolation** [Kan20]. **Extremal** [HSM09, RT21]. **Extreme** [CMG21]. **Extremes** [HM02, Mah17, RS19, VHSG20]. **F** [FB94]. **Face** [FHVW03]. **Faced** [Sha14]. **Facilitate** [Ska02]. **Factor** [CDP04, CD14, DDM20, EH17, Fri13a, GD09, Hsu92, KFSL17, MM09, MDC17, NYC15, ONS18, Paa99, TPA19, TGHL14, TU11]. **Factored** [Tho93]. **Factorization** [WBQ20]. **Factors** [DH10, KSR19, SS05, WR05, WYZ19, ZJRI10]. **Fail** [JP96]. **Failure** [KLH05, ZJ04]. **False** [BGLM18, HCZMH21]. **Families** [Gou98, HH06a]. **Family** [AG05, CL09, HH06b]. **Far** [CSS<sup>+</sup>09]. **Fast** [AHS22, BGD16, BL04, CHW08, CGR17, CP18, CLSC22, Dri08, FM94, Fon19, GK10, GŠP<sup>+</sup>06, GG17, GX20, HM15, HCG02, HB16, JT21, Kar21, KN06, KPC02, KCSA20, KCK08, LMST18, LW19, LH95, LMM19, Lum19, LPPT17, MR10, MDS20, Mil19, MMZ22, MBGO11, OLN11a, OLN11b, PRHP14, RNHY12, RT16, RDZ10, SBM22, SBY06, SBWZ08, Sam15, SLR21, SBEG94, SSMN16, Ste02, TW96, VL09, Wan94, WD11, WH98, WNA20, YMG21, ZNYJ14, ZSW22, vdWvNR21, HCB04]. **Fast-** [SBWZ08]. **Faster** [Oeh98, Tok07, WFS11]. **Fatigue** [Rya03]. **Fatigue-Limit** [Rya03]. **FDR** [LX16, SK10]. **Feasibility** [Weg95]. **Feasible** [HKP16]. **Feature** [All13, BMO01, GW04, KCF21, ROY20, SC08, TVZ<sup>+</sup>22, TG10, VH17, XL17, ZH03]. **Feature-Inclusion** [SC08]. **Features** [EH05, FHTG05, GPPVW17, HLW22, LX16, MLP07, MS93b, ZCS<sup>+</sup>19]. **Feed** [KS99]. **Feed-Forward** [KS99]. **Fetching** [Bro06]. **FFT** [HCB04, GG17, WK17]. **FFT-Based**

[GG17]. **Fiducial** [LHL21]. **Field** [HHC03, Mah17, PH21, ZF18]. **Fields** [BMR15, BK20, CK08, De 05, DIR02, Eve12, FPRW09, Fri13a, HPA14, HKP16, KKLN20, SS06, Ste12, TA12, YS10]. **File** [DR18]. **Filling** [CLHW19]. **Filter** [Kit96, MLJ16, Sin02]. **Filtered** [MW97]. **Filtering** [CSK10, FM07, Gol09, GQD18, PRHP14, RT16, WJG11]. **Filters** [Ano07a, BB21, Fea02, Fea05, JK21]. **Finance** [NYC15]. **Financial** [Ano07a, Fea05, MC05]. **Find** [BL04, DS21, MHDW19]. **Finding** [CGEMIR18, GPPVW17, HQT92, LCV20]. **Finite** [Che07a, IJ02, MM10, RNM18, SRE06, YKZ18]. **First** [MM20, SQ07]. **First-Order** [SQ07]. **Fisher** [Hof09, Spa05, VT94]. **Fisz** [FN04]. **Fit** [CZ02, DG14, GPGMFB14, GvDHB08, HM14, KN06, LRO18, NLF+06]. **Fitting** [CKHG15, FG95, FDBS10, FCWM17, GKZ18, HHH12, JL13, KS99, MT00, XW18, YL99, ZNYJ14, vD00]. **Fixed** [BT18, CSK10, JWH16, LPJ13]. **Fixed-Effects** [JWH16]. **Flat** [HK10]. **Flexible** [GMTK13, HCB04, Hug15, RT16, SLR21, TGM+14, WW19]. **Flight** [Wic11a]. **Flights** [DPS11]. **Flipped** [Huh95]. **Florida** [MK92]. **Flows** [HK06]. **Fluvial** [ZH17]. **Flying** [HCK+11]. **fMRI** [PAP22]. **Focused** [Fal99]. **Focusing** [MC17]. **Fold** [YK09]. **Folded** [KR17]. **Folding** [XY14]. **Follow** [CDFB11]. **Follow-up** [CDFB11]. **Following** [ZL16]. **Forecast** [AHS22, Dan97]. **Forecasting** [SH17]. **Forecasts** [HMPP19, TSH16]. **Forest** [BSZ22, GH21, LSFI18, MMW98, SH06, WSM+20, dSCL21]. **Forests** [DZFZ18, FTAW21, GH21, HZ21, MH17, XNN16, XGTB18]. **Form** [SY07]. **Formal** [MH17]. **Forms** [Ano06a, KGMT06, ZSW22, Ano06a]. **Formula** [LS97]. **Formulations** [ZBS+21]. **Forward** [FX21, GTZH16, KS99, MM09, MDS20, PRHP14]. **Forward-Backward** [PRHP14]. **Four** [Hub99]. **Fourier** [HCB04]. **Fourth** [YC04]. **Fractal** [HMP96]. **Fractional** [BMR15, Ste02]. **Frailties** [JK00, KK09, LRBS03]. **Frailty** [HL03, HPOL14, TGP03]. **Framed** [VRH19]. **Framework** [BML19, DH03a, HHKS11, IKL08, KO05, LWM21, MQ15, WM19]. **Free** [ACS17, BRS12, DDM20, LD21, Lin99, MS03, Wan08, XL17]. **Free-Knot** [Lin99, MS03, Wan08]. **Frequency** [KTS17, McE22, MC05, QGL09, SH00]. **Frequentist** [HMPP19]. **Front** [SCLK+00]. **Frontiers** [Weg95]. **Full** [GK02, HK06, KK09, Mil19]. **Function** [BM19, BRS+08, CBC93, HB92, HLL07, Huh95, Hut02, JKD92, Kab93, KSM+18, KB20, LPHK16, LO16, LQ19, Maa05, MP00, PH20, PP05, PB95, RMWH17, WLZB07, XP07, XY14, ZJ04]. **Function-on-Function** [KSM+18, LQ19]. **Function-on-Scalars** [KB20]. **Functional** [ABvS09, BM19, CCL21, CLSC22, DG18, EH17, EFG+99, GPGMFB14, GBC+11, GLC20, HLP07, HC98, Hoo07, HS10, JCZG19, LYHM15, LSH16, LRR20, LCWW17, LLZ09, LMC22, LQ21, Mai97, MHS+14, PP09, QGL09, Ram17, SSG15, SH17, SSB+14, SSBW17, SG11, TG10, WCR13, WL13b, YL99, YLM17, ZSK19, ZOR12, ZCO15, ZP14, ZCY+11]. **Functionals** [GHW02, Vie00]. **Functions** [CKNK06, CHH10, Coz99, Dia99, FS18, GK97, Hoo07, Koo97, LHY00, LKW09, LTW07, LJ19, LHK17, NGH17, PNLL21, PL22, Rou08, RW99, Sha14, SBR10, Tho93, Yan21, Gel00, GH00, HL00b, Kie00, Men00, Wu00, dLM00]. **Fused** [BRB17, GN17, GJL+10, Hoe10, JYYZ18, Joh13, LWLY17, MK20, PWS16, SLR21, Yen20, YWL+15]. **Fused-MCP** [JYYZ18]. **Fusion** [CTDKL21, CGR17, PGR15, PMS21]. **Future** [Tie96].

**G** [LHL21]. **Gains** [Rya03]. **Gambler** [CJS92]. **GAMlet** [ST04]. **Gamma** [DW01, DV04, Mil19, WIR01]. **Garrote** [Gao98]. **Gauss** [GRM09, Ste95]. **Gaussian** [Ano06a, AB21, ACS17, ACG14, AG18, BMG16, BGL18, BK20, CZZ15, CP18, DDM20, De 05, DY09, DIR02, EM07, FDC<sup>+</sup>19, GM15, GAS20, GN17, GSP<sup>+</sup>06, GP11, GA15, Gu92, GX01, GX20, GF17, HHL19, HPA14, HKP16, KGMT06, Kit96, KO05, Len03, LD11, LM19, LHK17, MK20, MMZ22, MR16, MC18, NBH<sup>+</sup>15, ONS18, OW12, PH21, PC06, PM16, RRG<sup>+</sup>21, SC08, SS19, SQCK20, Ste12, Ste95, SSL17, TEG19, Tok07, VF09, Whi01, WC94, XGH11, XGT15, Yua08, YS10, ZLR18, ZSW22, ZGTG21]. **Gaussians** [PP14]. **Gelman** [Gel17, Kos13]. **Gene** [CAR<sup>+</sup>10, CZZ15, Jör09, XP07]. **Genealogy** [ACCQ19]. **General** [ACCK19, BK20, BG98, DH03a, HPOL14, Hes98, Hsu92, HN98, HK98, LW09, dVTP<sup>+</sup>17]. **Generalization** [Eld03]. **Generalizations** [YZ13]. **Generalized** [AT16, BBW20, BEGS17, BY04, Bil00, BHK15, CGH17, CD12, CTB19, CZSL10, CL12, CTW20, CRS06, CZ02, CD14, DMR20, DG05, EM02, EGS<sup>+</sup>13, FNGW20, Fri00, Fri13b, Fri14, GBW17, Gv97, GX01, GM05, GKZ10, GH18, Guh08, GRM09, HL03, HM09, Hof01, Hoo07, HLW22, HWO<sup>+</sup>17, Ish99, JHL09, JAJ19, KW01, KO04, KM15, KW21, LHL21, LMST18, LR05, LPM98, LFS<sup>+</sup>17, LP07, LHL03, Lum19, LVH17, LR14, MPS17, MHS<sup>+</sup>14, Mou09, NL04, OW12, PC06, RNM18, RYY00, SD03, SMB14, SK10, SS05, SHFT18, SW18, SN10, TNKK16, TL07, VG01, VN18, Wan13, WYL14, XSC19, YZ07, YMLY11, Zha03, Zha07, ZNR21, ZZL18, Zhu17, dR07, vW19, Ano20]. **Generalizing** [BZ07]. **Generating** [DES93, DZFFZ18, MS93a]. **Generation** [AC95, ES98, KK00, Mey18]. **Generative** [HPZ21]. **Generic** [Bra21]. **Genetic** [HLH06, JS95, Pit02, XCSP16]. **Genetically** [LYHM15]. **Genetics** [NP01]. **Genomics** [DXL12]. **Geographically** [GY07]. **Geometric** [LKW09, PP09]. **Geometrically** [DH10]. **Geometry** [HK10, LZ18]. **Geometry-Sensitive** [LZ18]. **Geophysical** [Bra02]. **Geostatistical** [CYS09, GY07, PL12]. **Geostatistics** [Chr04, GW04]. **ggplot2** [SVC<sup>+</sup>19]. **Gibbs** [CS93, FQH16, Fri13a, HC98, Hob01b, HJ09, JP96, KKLN20, Lia98, NM98, PP96, PvD09, RS01, TH09, VJ15, WRT21]. **Gini** [SZ08]. **GIS** [HHTB10]. **Given** [Coz99, Fal99, HM02, KK00, WW12]. **GLM** [TNNK20]. **GLMM** [TNNK20]. **GLMMLasso** [SMB14]. **Global** [BGLM18, Bie05, HCG02, RJLW21]. **Glyphs** [TS13]. **Goals** [GU13a]. **God** [XMY13]. **Going** [CHSR19]. **Good** [Rob19]. **Goodness** [DG14, GPGMFB14, HM14, KN06, LRO18]. **Goodness-of-Fit** [DG14, GPGMFB14, HM14, KN06]. **Google** [LRR20]. **Gossip** [YVMFB03]. **GPU** [BGD16, MR16, SWC<sup>+</sup>10]. **GPU-Powered** [MR16]. **GPUs** [LWLY17]. **Gradient** [FS18, KKK08, Zha07]. **Gradient-Based** [KKK08, FS18]. **Gradients** [KN97]. **Grammar** [Bau19, Wic10]. **Grand** [CBCH95]. **Granularities** [GHCU22]. **Graph** [ASPL21, Bak92a, BFM18, KS11, RMR<sup>+</sup>17, STM15, Sue12, TF20a, TG09, Wan20, YK09, YPPM21, ZRL14, ZL16]. **Graph-Assisted** [Wan20]. **Graph-Based** [YK09]. **Graphic** [BC93, Tuk93a]. **Graphical** [ASND19, Ano06a, Ano07a, Ano08a, Ano12b, AAN17, BCL94, CLLZ17, CZZ15, DPS11, FK16, Far99, FB11, GM15, GB00, GN17, GLMZ15, HM14, HP94, Hur00, KKB21, LH15a, LD11, LM19, LCB19, LKB21, LH00, MS18a, MMA97, MY94, MBM18, MD13, MMZ22, MR16, OLN11a, SC08, SQCK20, TN14b, WW12, Wic13, WFS11, XGH11, XGT15, YP20, Yua08]. **Graphically** [Eic94]. **Graphics**



[Cle93a, Cle93b, GU13a, GU13b, Hol93, Hur93, IG96, LYG<sup>+</sup>10, Mur13, SVC<sup>+</sup>19, Tre93, UHHS96, UVM18, VH17, WCH20a, WL02, Wic10, Wil93, WRCR00]. **Graphing** [Wai93]. **Graphs** [CPV03, FSMV02, Gel11b, GV01, Gra13, KB08, LRO18, LACRM06, ML08, OBGC21, PCP11, PSTV15, SG20, TAS<sup>+</sup>17, TA12, Wil96, Wil99, Bri11, FK11, Gel11a, Wai11, Wil11]. **Greater** [Hic17, MHB17]. **Grid** [CHSR19, MPR<sup>+</sup>12]. **Gridding** [BK03b]. **Grids** [QE96]. **Group** [CRGS17, CCYW16, GN17, GLC20, LAML19, LH15b, SBZ13, SFHT13]. **Group-Fused** [GN17]. **Group-Lasso** [LH15b]. **Group-Wise** [CRGS17]. **Grouped** [QYZ16, SH17]. **Groupings** [vIM97]. **Groups** [CGEMIR18, LR04]. **Growth** [LYHM15, SG03]. **Guarantees** [CKT21]. **GUD** [Kou14]. **Guided** [HLH15, KN97, OFR<sup>+</sup>18]. **Guiding** [YL95]. **GWAS** [ACCQ19].

**Haar** [FN04, FT16]. **Hamiltonian** [BGD16, HO10, Kle19, OKL21, PP14, SBF19]. **Handling** [LAB22]. **Happen** [HV17]. **Happened** [HV17]. **HARDI** [RIC<sup>+</sup>16]. **Harmonic** [Len09]. **Hastings** [GK10, HMJ11, JRS11, VJ15]. **Having** [GK97]. **Hawkes** [CS18]. **Haystack** [DS21]. **Hazard** [CHW02, Gra96, Gu15, HHGG01]. **Hazards** [SS11]. **HDLSS** [LAJ13]. **Headers** [WM03]. **Heal** [GF15]. **Healthcare** [Goo99]. **Heatmaps** [BY18]. **Heavy** [Mah17]. **Heavy-Tailed** [Mah17]. **Heredity** [HWS16, TRWB16]. **Hermite** [BMG16]. **Hermitian** [COvS19]. **Hessian** [CH09]. **Heterogeneous** [CTDKL21, DCS16]. **Heteroscedastic** [BB03, BGL18, BBvdW16, CRC<sup>+</sup>07, PCGM20, SMS<sup>+</sup>14, Smy02, TYG<sup>+</sup>20]. **Heuristic** [WR93]. **HHH** [MT00]. **HHSVM** [YZ13]. **Hidden** [BWZO20, BHS00, Cap11, Dan12, FPRW09, Gué03, LH02, PM16, RT98, TFS20, YSDJ15,

ZJRI10]. **Hierarchical** [BS19, BM99, Bra21, CH12, DH10, GvDHB08, GKT18, GAS20, HL03, HMN<sup>+</sup>03, HS18, JB03, Kle19, LH15b, LH15c, OKL21, Pos01, RG09, VC21, WCR13, YT21a]. **Hierarchically** [SH18]. **Hierarchy** [VH17]. **High** [ACJ21, AG18, BCS96b, CHG16, CLLZ17, CB97, DDM20, FM12, GKT18, GF16, HM09, HM11, HK22, Hoo07, HO10, IW10, IL16, ILP19, JT21, JV01, JP95, KDM16, KB20, Kus06, LCV20, LCL22, LB15, LRFK21, LP14, MMZ22, MS18b, MC05, NY14, NYC15, NFMS14, OFR<sup>+</sup>18, PP07, PW15, PMI20, RRSY19, RSKZ19, RIC<sup>+</sup>16, RYY00, Rho03, ROY20, SMB14, SBE17, SLMN20, SHFT18, SLR16, SRL<sup>+</sup>00, THSM21, TSH16, WLWM16, XGTB18, YMB14, YKW03, YF14, YWL<sup>+</sup>15, ZCY<sup>+</sup>11, vdWvNR21]. **High-Dimensional** [ACJ21, AG18, BCS96b, CLLZ17, CB97, DDM20, FM12, GKT18, GF16, HM11, Hoo07, HO10, IW10, IL16, ILP19, JT21, KDM16, KB20, Kus06, LCV20, LCL22, LB15, LRFK21, LP14, MMZ22, MS18b, NY14, NYC15, NFMS14, OFR<sup>+</sup>18, PP07, PW15, RRSY19, RSKZ19, ROY20, SMB14, SBE17, SLMN20, SHFT18, SRL<sup>+</sup>00, THSM21, TSH16, WLWM16, YMB14, YKW03, YF14, YWL<sup>+</sup>15, ZCY<sup>+</sup>11, vdWvNR21]. **High-Frequency** [MC05]. **High-Momentum** [Rho03]. **High-Order** [CHG16, HK22, JV01, RYY00]. **Higher** [BB03, HM14, Mar94]. **Higher-Order** [Mar94]. **Highly** [HY17, SK21]. **Histogram** [BC00, DM09, Tan17]. **Histograms** [TSH16]. **Historical** [Wic13]. **History** [Fie12, Fri02]. **Hit** [CS93]. **Hit-and-Run** [CS93]. **Holdout** [TVZ<sup>+</sup>22]. **Holes** [MB18]. **Hollowness** [LCV20]. **Homotopy** [OT11]. **Honest** [TDH15]. **Horseshoe** [LCB19]. **Howard** [Tuk93a]. **HPD** [CS99]. **HQ** [MT00]. **HR** [MT00]. **Huber** [LO16, WLZB07, YH17]. **Huge** [Weg95].

**Human** [Far04]. **Hunting** [DR10, HH01, Ooi02]. **Hybrid** [ACCK19, Ish99, JV01]. **Hydrological** [RT21]. **Hypergeometric** [JKD92]. **Hyperparameter** [HBG22, XD20]. **Hyperrectangles** [DES93]. **Hypotheses** [SSL<sup>+</sup>16]. **Hypothesis** [AvD20, Can99, FKH07, MH17, TAS<sup>+</sup>17, WLWM16].

**Icon** [EM96]. **IDE** [VG01]. **Idea** [Gas03]. **Ideas** [Gra07]. **Identifiability** [GM20, MW15]. **Identification** [BK05, SBZ13]. **Identifying** [CTDKL21, Dia99, HWQ15, MWFSG17, ZC15]. **Identity** [Mar10]. **iid** [WK17]. **Ill** [KN97, RO94]. **Ill-Posed** [KN97, RO94]. **Illusion** [ND21]. **Illusion** [VH15]. **Illustrations** [PvD09]. **Image** [BZ07, FR97, FT16, GJ97, Glu00, Glu04, GHC14, Kan20, KK00, MQ15, NP01, RRH18, SSL<sup>+</sup>16, YBDS02]. **Images** [ABvS09, EM96, KK00, Mai97, QS09, VM04]. **Imaginary** [FN16]. **Imaging** [EFG<sup>+</sup>99, GAZ15, HDK<sup>+</sup>20, RIC<sup>+</sup>16]. **Imbalance** [LAB22]. **IMIS** [SRE06]. **Immersive** [WS02a]. **Impact** [LRR20]. **Implementation** [AB17, BHS00, ES96, FKH07, Tok07, VL09, WC06, XGT15]. **Implementations** [AT16, FM94, LC01, PMB12]. **Implementing** [Gas03, Jan06]. **Implications** [LB15]. **Import** [ZH05]. **Importance** [HB98, Ion08, KA13, MP00, MMN<sup>+</sup>13, NP01, Oeh98, OKL21, SZ08, SK21, SRE06, SC19, TDH15]. **Imposing** [Ros17]. **Improper** [HC98, PP96, TH09]. **Improve** [HDK<sup>+</sup>20, JRS11]. **Improved** [McL99, ST99, XGH11, XBW15, dV08]. **Improvements** [HO99]. **Improving** [AAN17, BC19, CKHG15, Hof19, HHH12, LCRG21, LRR20, PKH15]. **Imputation** [HJNR19, LBM<sup>+</sup>14]. **Impute** [CKR19]. **Imputed** [LRBS03]. **Imputing** [FHTG05]. **In-Degree** [ABG<sup>+</sup>21]. **Including** [Paa99].

**Inclusion** [SC08]. **Incomplete** [Fri00, HCZMH21, JBJ<sup>+</sup>22, LPM98, SSL17, VG01]. **Incorporate** [Bra21, DMP14]. **Incremental** [FRW05, MFMR19, SRE06, SC19]. **Independence** [WW12, ZMH07]. **Independent** [GK10, HMJ11, JRS11, LS93, RRG<sup>+</sup>21]. **Index** [Ano92g, Ano93f, Ano94g, Ano95f, Ano96h, Ano97f, Ano98f, Ano00g, Ano08c, Ano09b, Ano10b, Ano11b, EM96, FXC21, HSM09, Hsi99, PVH05, RDL07, YZ07, ZHZ12, dSM04]. **Indexes** [CBC93, Sta94]. **Indicators** [MLP07]. **Indices** [PP05]. **Indirect** [XMY13]. **Individual** [CDFB11, GKBP15, Laz05, LSF18, Par11]. **Individual-Level** [CDFB11]. **Individualized** [DZFZ18]. **Individuals** [LYHM15]. **Inducing** [GDM14, GH20]. **Induction** [WC06]. **Inference** [AVW13, BCDL17, BZ97, BHF02, BH01, Bra99, CD12, CHG16, Che07b, CD19, CB20, CGR17, CZZ15, CM13, CLSC22, De 05, EC17, EB02, FD21, FP04, FPRW09, GK02, GF17, Hil11, Hsu92, HH06b, JK00, KDM16, KFSL17, KNN05, KC20, LHL21, Laz05, LD11, LRBS03, LL11, MJVB18, MN97, MGL18, MV98, NM98, OW12, PCP11, Pic14, PSTV15, RNHY12, RAM19, RW10, SR00, SX21, Ste92, TEG19, TDM12, TPA19, TF20a, TFS20, Tsi02, VC21, WD11, WZLR21, WM19, YNTK21, FB94, VT94]. **Inferences** [EH05, NYC15]. **Inferring** [MCF<sup>+</sup>20]. **Influence** [BG92, BZ97, CZSL10, MCF<sup>+</sup>20, RRSY19, ZICT12]. **Influential** [GRG10]. **Information** [Bak92b, GU13b, GKZ10, HK10, HO10, IJ02, LH02, NFM16, Rya03, ST99, Smi05, Spa05, Bak92a]. **Information-Theoretic** [GKZ10]. **Informative** [Ano20, DMR20, KLR18]. **Infovis** [GU13a, Kos13, Mur13]. **Initialization** [CKR19]. **Initiating** [Tu94]. **Insight** [SCLK<sup>+</sup>00]. **Insights** [LRR20, WFS11]. **Insomnia** [YM11a]. **Institutions** [MHB17]. **Instrumental**

- [CG07]. **Integral** [HW21, NLF<sup>+</sup>06]. **Integrated** [LSV<sup>+</sup>09, Len09, SBJ17]. **Integrating** [MHH15]. **Integration** [GK97, HDK<sup>+</sup>20, SH97, Tan06]. **Intelligence** [Rho03]. **Intelligent** [CKR19, SC98]. **Intensity** [FN04, MRCM18]. **Interacting** [BJMD13]. **Interaction** [HVRA96, LQ19, Smi05]. **Interactions** [Cai99, HWS16, LH15b]. **Interactive** [BCS96b, EM96, HOD22, MMGG16, SH18, SCB98, UHHS96, Wil99, Wil00]. **Interactivity** [CCH16]. **Interest** [Fal99]. **Interface** [Hur93, Goo11]. **Interior** [CS98]. **Interior-Point** [CS98]. **Internal** [Kel11, Wu11]. **Internet** [CCS03, Rho03, WM03]. **Interpolation** [Ano12b, BRS11, FGN06, GX20, Zha03]. **Interpretable** [WW19]. **Interpretation** [WCM21]. **Interquantile** [JWB13]. **Intersection** [GV01]. **Interval** [AB17, AE92, BL04, CGL13, HJ04, Kwo98, LRB12, LT94, Maa05, Pan99b, WK00, ZZL18]. **Interval-Censored** [AE92, BL04, CGL13, HJ04, Maa05, Pan99b, ZZL18]. **Interval-Valued** [LRB12]. **Intervals** [CS99, DES93, EN20, FSR20, Fon19, GJ09, GW93, KLH99, KHM05, KS04, LJZD05, MS18b, RO94]. **Interweaving** [HR11, SNR17, YM11b]. **Intractable** [PH20, SBF19, TNK17, YSDJ15, ZF18]. **Intrinsic** [COvS19]. **Introduction** [BKM99, Buj00, ES96, Edi00]. **Introductory** [HK17]. **Intrusion** [JV01]. **Inuence** [RA01]. **Invariance** [FHVW03]. **Invariant** [Cai99]. **Inverse** [BPW93, DV04, LCB19, TDM12, Wan20, Wu08, WLM10, ZYZ10, vW19]. **Inversion** [ACS17, FSR20, KO05]. **Inversion-Free** [ACS17]. **Investigating** [ZW04]. **Investigation** [EFLT94]. **Invitation** [Kos13]. **Involving** [GHW02]. **Irregular** [CLHW19, MPR<sup>+</sup>12, MB18, WL13b]. **Irregularly** [DKH06, DCT08]. **Irreversible** [MDS20]. **Ising** [FK16]. **Isomap** [WL09]. **Isotone** [FM12]. **Isotonic** [BQS94, DJ04, FM12, LR14, QE96, WL08]. **Issue** [Buj00, Edi00]. **Itô** [Sin02]. **Itô-Taylor** [Sin02]. **Iterated** [BP98, Bor11]. **Iteration** [BPW93, JAJ19]. **Iterative** [BF02, BG98, CHSR19, CKR19, CM08, Hea11, Jon98, LAML19, Pan99b, PW15, SD03, ST19, SPW95, WZLR21, XGH11, XGT15, ZL16]. **Iteratively** [HB92, LP07]. **IV** [FB94].
- J** [Bak92a]. **JADE** [VLNO18]. **Java** [GI00a]. **JCGS** [Ano21, Goo11, LTW<sup>+</sup>10]. **JOFC** [LPPT17]. **John** [BC93, FB94]. **Joint** [CZZ15, Cul13, GM16, KTS17, SG05, SQCK20, VS17, ZCI<sup>+</sup>17]. **Journal** [Ano06a, Ano07a, Ano08a, Ano12b, OLN11a]. **JSS** [Ano01c, Ano01d, Ano02a, Ano02b, Ano02c, Ano02d, Ano03b, Ano03c, Ano03d, Ano04a, Ano04b, Ano04c, Ano05a, Ano05b, Ano05c, Ano05d, Ano06c, Ano06d, Ano06e, Ano06f, Ano07c, Ano07d, Ano07e, Ano07f, Ano08d, Ano08e, Ano08f, Ano08g, Ano09c, Ano09d, Ano09e, Ano09f, Ano10c, Ano10d, Ano10e, Ano10f, Ano11c, Ano11d, Ano11e, Ano11f, Ano12c, Ano12d, Ano12e, Ano12f, Ano13c, Ano13d, Ano13e, Ano13f, Ano14c, Ano14d, Ano14e, Ano14f, Ano15c, Ano15d, Ano15e, Ano15f, Ano16d]. **Jump** [BB21, GD21, Gol09, Kan20, KA13, ML08, QY97, SQ07, ZR21]. **Jump-Diffusion** [BB21]. **Jump-Diffusions** [Gol09]. **Jump-Preserving** [Kan20]. **Jumps** [Qiu02]. **Junction** [TG09].
- Kalman** [PRHP14, Sin02]. **Kappa** [LT94]. **Kendall** [VT94]. **Kernel** [CR08, GW18, GM20, GG17, HV05, Her97, JW08, KS08, LW19, MRCM18, MSS08, RDZ10, SG20, Wan94, Wu08, XSC19, ZH05]. **Kernel-Based** [GM20, MRCM18]. **Kernels** [All13, DS94, Mar94, WCR13]. **Kingman** [FW13, LFT17]. **Knot**

[Lin99, MS03, Wan08]. **Knots** [Rup02]. **Known** [ACCQ19, Bre04]. **Kriging** [HCB04, MPS21, PW14].

**l** [NST12]. **Label** [LF16, PI10, RW14]. **Label-Switching** [LF16]. **Lagged** [MA19]. **Lagrangian** [LSSG15]. **Landau** [BJMD13]. **Landmark** [Big06]. **Landmark-Based** [Big06]. **Language** [IG96, WRCR00]. **Languages** [Buj00, Edi00, Hub00]. **Laplace** [Bor11, BBvdW16, GJR05, RYY00]. **Laplacian** [PC06]. **Large** [Ano12b, BVZ20, BGL18, CW00, DY09, FRW05, FPRW09, FGN06, GMF16, GŠP<sup>+</sup>06, Gv97, GA15, GF17, HYL<sup>+</sup>17, HM15, HY17, HWK17, HM16, HLL07, HS18, HB16, IW10, KSSL21, Kei96, KSM14, LMST18, LWLY17, LCRG21, LFS<sup>+</sup>17, LVH17, MK20, Mou09, NBH<sup>+</sup>15, Par18, Pos01, RAM19, SS12, SLBV18, SS16, TNKK16, Wil99, WL13a, XW18, YLW17, ZLR18, ZW10, ZF18]. **Large-** [HY17]. **Large-Scale** [Gv97, HYL<sup>+</sup>17, LMST18, LWLY17, LVH17, YLW17, ZLR18]. **Lasso** [ASND19, AT16, AAN17, BRB17, DS21, Fu98, GKZ18, GN17, Hoe10, HHTB10, Joh13, KKB21, LAML19, LWLY17, LH15b, MPS17, OT11, PWS16, RRSY19, SFHT13, TF20b, WFS11, YWL<sup>+</sup>15, ZHZ12, Zhu17, DRG19, FM12, JTU03, KKK08, OPT00, ZOR12, ZCO15]. **Lasso-Type** [ZHZ12]. **Lasso-Zero** [DS21]. **Latent** [BCDL17, CD19, CTDKL21, CBL20, Eve12, HWO<sup>+</sup>17, HDK<sup>+</sup>20, Mah17, MVR14, OM19, OPV22, PH21, RNHY12, SLL22, SL10, XD20, XCSP16, YMG21, ZBB06]. **Lattice** [GŠP<sup>+</sup>06, MB18, PL12, Smi05, SSL17, WK17, ZW04]. **Lattice-Based** [MB18]. **Lattice-Valued** [WK17]. **Lattices** [FPRW09, GF17, ZF18]. **Law** [YNTK21]. **Layered** [Wic10]. **Layouts** [Mur99]. **Learners** [CM08]. **Learning** [GKBP15, GP11, HOD22, LH15a, LH15b, LP14, LSD05, MJLK21, OSR<sup>+</sup>18, PRHS18, PGR15, SH06, Wu11, WBW21, Kel11].

**Least** [CHW12, DG05, HB92, HK10, HGK10, LP07, Paa99, XWZ15, ZLW21]. **Least-Square** [ZLW21]. **Length** [MB04]. **Lesions** [SSL<sup>+</sup>16]. **Less** [Zhe17]. **Letter** [HWK17, Loc11, Pie04]. **Letter-Based** [Pie04]. **Letter-Value** [HWK17]. **Level** [CDM<sup>+</sup>20, CDFB11, GX20, Kle04, SLR21, SQCK20, TN14b]. **Levels** [CDP04]. **Lexical** [GI00b]. **Lifetime** [BC00]. **Like** [BCH09, HV19]. **Likelihood** [ASND19, AVW13, ASPL21, BCDL17, BB21, Bie05, CHG16, CJ02, CVA08, CL12, CS18, Chr04, CW00, Coz99, DDM20, DIR02, Fea04, FQH16, FD21, FP04, Fri00, GW18, GCKP08, HPOL14, HO93, Hof00, HO99, JW08, JB03, KCSA20, KW10, Laz05, LPM98, LLZ09, Mar10, MMF<sup>+</sup>19, MBGO11, MR19, NST12, NYC15, Pan99a, Par05, PH21, PP09, PB95, PDLN18, PSF<sup>+</sup>22, RNHY12, RYY00, RAM19, Sin02, Ska02, SDBD21, Smi01, SBJ17, SY07, SSL17, SWF04, Tho93, TNK17, TG13, WZLR21, YZ06, YT99, ZJ04, Zho05, WDB96]. **Likelihood-Based** [MMF<sup>+</sup>19, Smi01, TG13]. **Likelihoods** [CGEMIR18, ESR<sup>+</sup>14, HS18, LSV<sup>+</sup>09, Len09, SGH17, YSDJ15]. **Limit** [Rya03]. **Limited** [ILP19]. **Limits** [LH95]. **Linear** [AHS22, BBW20, BEGS17, BY04, Bil00, CTC09, CGH17, CTB19, CZSL10, CRS06, CZ02, EM02, Fon19, FTAW21, Fri00, Fri07, GPGMFB14, Gra13, GCKP08, GH18, GLC20, Guh08, GRM09, HL03, HHL19, HH06a, Hen04, Hes95, HRM02, HM20, Hsu92, HN98, HWO<sup>+</sup>17, Ish99, JHL09, Kat10, KCF21, KPC02, KL03, LR05, LRR20, LG92, LCWW17, LPM98, LJZD05, LBCG16, LH15c, LHC17, Lum19, LVH17, MVR02, MPS92, MXM<sup>+</sup>21, MWDR21, MRCM18, MM20, NFM16, NL04, NFMS14, OW12, OT11, PLW01, PC06, RNM18, RYY00, SG05, SD03, SY02, SMB14, SNR17, SS05, SDBD21, Smi01, SHFT18, SX21, TN14a, TNKK16, VG01, YZ06, YZ07, YF14, Zha03,

ZHJ16, ZNR21, ZOR12, ZCO15, ZY05].  
**Linear-Angle** [Gra13]. **linearization** [WDB96]. **Lines** [CH93]. **Lineup** [CCHM18]. **Link** [Ano20, DMR20, MP00, Mar10, RW99, ZWLZ17]. **Link-Based** [Ano20, DMR20]. **Linkage** [SN10]. **Linked** [BC93, GR99, LA12, SVC<sup>+</sup>19, Tuk93a]. **Linking** [GY07, SCLK<sup>+</sup>00]. **Lisp** [Tie00]. **Lisp-Stat** [Tie00]. **LispStat** [Tie96]. **LLE** [GR12b]. **Load** [Bau19]. **Loadings** [GJL<sup>+</sup>10]. **Local** [BRS12, CCHS08, CZSL10, DR10, FSB11, Fos01, FTAW21, GW18, GA15, Her97, KM03, LCRG21, MMRMGMG08, MLP07, MQ15, MW04, Sam15, SG00, TW96, ZLR18]. **Local-EM** [FSB11]. **Local-Likelihood** [GW18]. **Localized** [WLM10, XGT15]. **Locally** [CKNK06, EH09, LCWW17, QGL09, SBR10, Tan17, WKC<sup>+</sup>08]. **Location** [HRV12, KLR18, McL99, PWPS97, Rup92, UKZ18]. **Location-Scale** [KLR18]. **Location/Dispersion** [Rup92]. **Locations** [SHL19]. **Log** [Fea04, PB95, SH03, YT21b]. **Log-Likelihood** [Fea04, PB95]. **Logarithm** [DT13]. **Logarithmic** [Efr05, GR99]. **Logic** [RKL03]. **Logistic** [Bra99, CDFB11, ET99a, ET99b, LRO18, Len03, LAB22, McC99, PGR19, Tok07, Tü08, WBQ20, WBS21, ZH05]. **Logistic-Gaussian** [Len03]. **Loglinear** [Bra99, TL99]. **Log spline** [KS92, KS04]. **Long** [MW96]. **Long-Memory** [MW96]. **Longitudinal** [CCH16, CDFB11, CLSC22, EC14, Far99, GDM14, GD16, HWQ15, HLL07, JS20, KTZQ20, MCF<sup>+</sup>20, PP09, PM16, Seg94, TQ16, WL13b, Zha97, ZCI<sup>+</sup>17, ZDM20]. **Look** [GDS02]. **Looking** [Fal99]. **Looks** [GU13a]. **Loss** [FR97, Wan18, YH17]. **Losses** [Kat10]. **Lost** [GF15]. **LOTUS** [CL04]. **Low** [HLP07, HS18, Oeh98, PRHP14, PAP22]. **Low-Dimensional** [HLP07]. **Low-Rank** [PRHP14, PAP22]. **LowCon** [MXM<sup>+</sup>21]. **Lower** [CHW08, WCM21]. **Lower-Dimensional** [WCM21].  
**M** [FKLW08]. **M-Estimation** [FKLW08]. **Machine** [HOD22, LSD05, ZH05]. **Machines** [LY11, SWZ14, TZ06, WZW19, WL13b, ZLWZ16]. **Magnetic** [EFG<sup>+</sup>99]. **Majorization** [Wan18, YWL<sup>+</sup>15]. **Majorization-Minimization** [YWL<sup>+</sup>15]. **Making** [EH05]. **Mammographic** [HIT99]. **MANET** [UHHS96]. **Manifold** [JHD21, ZGTG21]. **Manual** [CB97]. **Manuscript** [Lev12, Lev13b]. **Many** [CTC09, LGS09, SYF17]. **Map** [OKL21]. **Mapping** [RHC<sup>+</sup>14]. **Maps** [BL17, Mei11, MM97]. **Margin** [Wan13, WL13a]. **Marginal** [Fri99, GMTK13, Lia07, LFT17, WCKL19, YC04, YT99]. **Marginalized** [CYS09, Sue12]. **Marginally** [KNS21]. **Marginals** [HM02]. **Margined** [LMS19]. **Marked** [LA12]. **Markers** [TZ12]. **Marketing** [KTZQ20]. **Markov** [Bro06, BG00, BWZO20, BHS00, CB01, Can99, Cap11, CS98, CF05, CRS06, CK08, Dan12, DY09, Dob12, DIR02, Eve12, Fea02, FHIT20, Fis12, FWR12, FB11, FPRW09, GS94, Gey95, GVDP99, God01, GF16, GR08, Gra07, Gué03, GMP04, GJR05, HHC03, HK22, HC98, Hob08, HLH06, JN04, JS13, JT21, JO02, JV01, KKLN20, LSSG15, LH02, MP00, MB04, MFMR19, MN97, MDS20, ML08, Nea00, Owe17, PM16, RS19, RT98, SHC00, SK21, Sco99, SNR17, SS06, TDH15, Tan15, TA12, TFS20, YSDJ15, YT99, YS10, ZJRI10, ZR21, ZZ08, ZF18, dV08]. **Masking** [JP96]. **Masses** [HIT99]. **Massive** [Bra02, BKM99, DH03a, FS99, Goo99, HLB<sup>+</sup>21, Hub99, JK21, KP03, LPS99, SDL19, SWC<sup>+</sup>10]. **Massively** [LYG<sup>+</sup>10, RHC<sup>+</sup>14, SWC<sup>+</sup>10]. **Matched** [BVZ20]. **Matching** [ASPL21, CCHM18, DR18, DASR08, GR93,

HK06, LR04, MR01, Ros12, Ros17].

**Mathematical** [MI00]. **Matrices** [ACC18, CJ09, COvS19, CHW08, Cli05, GDM14, GAS20, GG17, HLL07, LCB19, PMS21, SLBV18, TDM12, TU11, ZBB06].

**Matrix** [AAN17, Bak92b, CHSR19, CKR19, CP18, DDM20, DS00, DY09, DT13, Fal99, HPA14, HKP16, Hof09, HHT21, KKS17, LD21, LD06, LWZ14, LH02, MR19, NFM16, Smi05, Spa05, TMMB20, WP13, YT21b, ZRL14, vW19, Bak92a]. **Matrix-Free** [DDM20]. **Matrix-Log** [YT21b].

**Matrix-Logarithm** [DT13].

**Matrix-Valued** [LD21, MR19].

**Matrix-Variate-** [TMMB20]. **Max** [CHG16, CMG21]. **Max-Stable** [CHG16, CMG21]. **Maximization** [Hob08, LM19, LLZ09, SDL19, YSD13].

**Maximizings** [vLM97]. **Maximizing** [CW00]. **Maximum** [ASPL21, Bie05, Chr04, DIR02, Fri00, Hof00, HO99, JW08, JB03, KCSA20, KW10, LPM98, Mar10, MBGO11, PH21, PP09, RYY00, Sin02, Ska02, SSL17, SWF04, YZ06, ZJ04].

**MCMC** [HR11, BCD11, BK05, BDR97, BGP03, CMN21, CJ09, DH10, GPR99, HHC03, JL13, KA13, LK02, LS05, MJVB18, PMB12, QTVK18, QTV<sup>+</sup>21, RR09, SK21, Sha14, SGH17, VS17, WB18a, YM11b].

**MCP** [JYYZ18]. **MCVIS** [LWM21]. **Mean** [Bre04, CKNK06, Far99, HH06a, HB16, Len09, LZ18, MWDR21, PSY09, XY14, MR10]. **Mean-Covariance** [MWDR21].

**Mean-Shift** [HB16]. **Means** [Dia99, MSS08]. **Measure** [BHS04, GW11, LL15, RRH18, SZ08].

**Measurement** [CD14, LR05, SMS<sup>+</sup>14, SHFT18, YASR20, ZNR21]. **Measurements** [ZJRI10]. **Measures** [Coz99, FHTG05, HIT99, KM03, NY14, ZICT12]. **Measuring** [CCHM18, LT94, PRHS18]. **Mechanism** [Mur99]. **Median** [DJ04, LMM19]. **Medical** [NP01]. **Medium** [Bau19]. **Memory** [MW96]. **Merge** [JN04]. **Merging** [Mel16].

**Metaheuristic** [MHDW19]. **Method** [Bak92b, BMR15, BK03b, CDM<sup>+</sup>20, CKHG15, CDFB11, DDM20, Far99, FWR12, GJ09, Gel95, GM20, HLP07, Hes98, HP94, JH98, JP95, Kab93, KMOS92, KN06, MR19, PWPS97, RMR<sup>+</sup>17, SN10, TEFH20, Vel08, XL17, YMB14, YMLY11, Bak92a, LHL21].

**Methodology** [FHTG05]. **Methods** [BG98, CR08, CL15, CRS06, Cle93a, Cle93b, CPV03, CMJ11, DH03b, DBS06, FNGW20, FM07, FX21, GVBM04, GB02, God01, GM18, GLW07, GR93, Hol93, HJ09, HM16, HKS12, KS99, Lee07, LYG<sup>+</sup>10, LG92, LSF18, MP00, Nea00, NW10, NTVK12, OLN11a, OLN11b, PVH05, PTP03, PV04, RSKZ19, SD03, SBT00, SS05, Tre93, WL02, Wil93, YBDS02].

**Methylation** [GX20]. **Metrics** [CCHM18].

**Metropolis** [Béd08, CS93, GK10, HMJ11, JRS11, NW10, TMvD18, VJ15, YLCR19].

**Microarray** [QS09, YBDS02]. **Microbiome** [ZZW21]. **Millions** [CH93]. **Mind** [PRS11].

**Minimax** [MJ18, Ros17]. **Minimization** [BGLM18, YWL<sup>+</sup>15]. **Minimizing** [LJ19, PNLL21]. **Minimum** [CS14, DPS11, WR93]. **Mining** [DH03a, FS99, Goo99, WS02a].

**Minorant** [AE92, Jon98, Pan99b]. **MIP** [KCF21].

**MIP-BOOST** [KCF21]. **Mises** [Hof09].

**Missing** [CBL20, FM10, LKB21, SY02, SR00, Tu94, UHHS96, ZICT12].

**Missing-Data** [Tu94]. **Misspecified** [MXM<sup>+</sup>21]. **Mixed** [CHW02, CTB19, CZSL10, CLLZ17, CRS06, CZ02, CD14, ERPG11, EC14, GCKP08, GM05, GH18, Guh08, GRM09, HJNR19, JHL09, KW01, LH15a, LHC17, LHL03, NLF<sup>+</sup>06, OW12, PB95, PLW01, PC06, Pro06, SY02, SSG15, SMB14, SS05, SX21, TN14a, TNKK16, VL09, Zha03, ZBS<sup>+</sup>21, vD00].

**Mixed-Effect** [GM05]. **Mixed-Effects** [EC14, LHC17, NLF<sup>+</sup>06, PB95, PLW01, SY02, SX21, vD00]. **Mixed-Measurement** [CD14]. **Mixing** [LLZ09, PRS11, PMB12].

**Mixture** [ACG14, BCD11, BRC<sup>+</sup>10, CD19,

CW00, CM13, EGO92, FW13, Fea04, FM07, FWR12, GK02, GB04, GPR99, HLH15, HK22, JN04, Kar21, KCSA20, Li05, LF16, LFT17, MM98, MFMR19, MM10, Mel16, MW15, Nea00, NW10, OC01, PTP03, RNM18, RW14, RF17b, SSS07, SLL22, SPW95, SRE06, SC19, TEG19, Tan17, TQ16, Tüc08, WWG<sup>+</sup>97, WD11, WM19, YKZ18, ZNYJ14, ZKS22, ZZL18].

**Mixture-Based** [BCD11]. **Mixturegram** [YKZ18]. **Mixtures** [BCH09, CCFM01, DV04, DH03b, GK10, GR08, GW11, Hof00, HJR03, IJ02, JHL09, KLR18, MWFSG17, MR16, PI10, STM15, SG03, SS19, SWC<sup>+</sup>10, TN14a, TGM<sup>+</sup>14, WR05, WIR01, WRK11]. **MM** [HL00a, LW08, ZL10, ZHZL19]. **Mode** [HMW06, Kle08, MW97, MS93b, MMW98, Ooi02]. **Model** [BCE20, BC DL17, BY04, BCH05, BFM18, BHK15, Bra21, BGP03, BWZO20, CHW02, CKHG15, CGEMIR18, CS20, CH09, CD19, CHSR19, Chr04, Cle93a, Cle93b, CGL11, CM13, CCL21, DXL12, DS21, DMP14, DCV10, ES02, ERPG11, FK16, FH15, FRW05, FP04, Fri00, GD21, GPGMFB14, GR99, God01, GM93, Guh08, HJ04, HMN<sup>+</sup>03, HML18, HHKS11, Hol93, HDM02, Hsu92, HN98, HHTB10, Hug15, JN04, JK00, JBJ<sup>+</sup>22, Jör09, JV01, KNN05, KK09, KLH05, Kus06, LG07, LYHM15, Len03, LG03, Li05, LD21, Lia07, LPM98, LG20, LHC17, LQ19, MK20, Mah17, MPR<sup>+</sup>12, MMN<sup>+</sup>13, MW15, MXM<sup>+</sup>21, MC05, MQR11, MSS08, MW14, MQ17, NBH<sup>+</sup>15, OC01, OR07, Paa99, Pan99a, Pan99b, Par01, PWS16, PB95, Pos01, PM16, QYZ16, QGL09, RNHY12, RS19, Rya03, SS11, Sew21, SG17, ST99, SMK15, SNB<sup>+</sup>01].

**Model**

[SM13, TPA19, TRWB16, TK99, Tre93, Tsi02, VHSG20, WBQ20, Wil93, WCM21, XL17, YPPM21, YKW03, YSK<sup>+</sup>10, ZHH08, ZZW21, ZHJ16, ZCI<sup>+</sup>17, ZLR18, ZCS<sup>+</sup>19, ZZ08, ZJA16, ZZL18, ZY05, dVTP<sup>+</sup>17].

**Model-Based**

[CHW02, CGEMIR18, Chr04, FRW05, LG07, OR07, Pos01, Sew21, ZHH08, ZZW21].

**Model-Free** [LD21, XL17]. **Modeling**

[AM07, BGL18, CD19, CMG21, CG07, DR18, DZZ16, DK18, EC14, GM16, GRM09, HWS16, HYL<sup>+</sup>17, Hil11, Hof01, HZ21, KT03, KSM14, KMQ05, KKB21, LCSL14, LGL16, MM10, NW10, NAB16, OR99, PW14, QN00, TQ16, TGM<sup>+</sup>14, TL07, WCH20b, XCSP16, YT21a, ZCI<sup>+</sup>17, ZKS18]. **Models**

[AB21, ACS17, Ano20, AGV12, ACG14, AHS22, BCST13, BBW20, BS19, BEGS17, BB21, BM99, BF02, BT18, Bil00, BRS<sup>+</sup>08, BFM18, BHK15, Bra99, BWZO20, Buj04, BHS00, CMN21, Cap11, CD12, CKNK06, CTB19, CZSL10, CLLZ17, CWZ21, CG07, CGJ09, CRS06, CZZ15, CZ02, CGR06, CYS09, CD14, CLSC22, DZZ06, Dan12, DG14, DMR20, DH10, Dri08, ESR<sup>+</sup>14, FNGW20, FW13, Fea04, FM07, FXC21, FM10, Fie12, FCWM17, FWR12, FMM<sup>+</sup>19, FB11, Fri07, GM15, GK06, GK02, Gel04a, Gel04b, GvDHB08, GN17, GP11, GCKP08, GM05, GKZ10, GH18, GLC20, GRM09, GLMZ15, HL03, HPOL14, HAC<sup>+</sup>12, HHC03, HC11, HK22, HM15, HCB04, HM14, HHT21, HO99, HY19, HWO<sup>+</sup>17, HH06b, HKS12, HOD22, HK98, Ish99, JB03, JHL09, JWB13, JL13, JT21, Kab93, Kar21, KW01, KFSL17, KO04, KL03]. **Models**

[KW21, Kit96, Kle19, KS99, KC20, LGS13, LRO18, LH15a, LD11, LCRG21, LF16, LM19, LR05, LCWW17, LMS19, LFT17, LKB21, LBCG16, LH15c, LHC17, LHL03, Lum19, LVH17, LH02, MS18a, MM98, MJVB18, MA19, MM14, MVR14, MMF<sup>+</sup>19, MMRMGMG08, MHDW19, MT03, MHS<sup>+</sup>14, MBM18, MMZ22, MR16, Nea00, NLF<sup>+</sup>06, NFM16, NW10, NL04, OW97, OW12, OKL21, PVH05, PL12, PH21, Pic14, PTP03, PLW01, PC06, Pro06, QG06, RNM18, RYY00, RW14, RDL07, RG09, RT98, SBM22, STM15, SG05, SY02, SSG15, SMB14, SC08, SSS07, SLL22, SQCK20,

SSBW17, SNR17, SS05, Ska02, Smi05, Smi01, SL10, SHFT18, SX21, SRE06, Sue12, TDM12, TH09, TN14a, TF20a, TVZ<sup>+</sup>22, TGP03, TL99, TFS20, TNKK16, Tüc08, TG13, TS13, UKZ18, VL09, VM04, VG01].

**Models** [VN18, VF09, VDC21, WK09, WD11, WH14, WM19, WBS21, WYL14, WYZ19, WRK11, WW19, XGH11, XGT15, XW18, YP20, Yan21, YSD13, YSDJ15, YZ06, YZ07, YKZ18, YF14, Yua08, ZHZ12, Zha03, ZBB06, ZJRI10, ZNYJ14, ZZZS17, ZNR21, ZBS<sup>+</sup>21, ZKS22, ZHZL19, ZW07, ZW10, ZICT12, dLG01, dR07, dVTP<sup>+</sup>17, vD00, TYG<sup>+</sup>20].

**Modern** [FNGW20, RSKZ19, ST19].

**Modes** [HLW22]. **Modifications** [Glu00].

**Modified** [JFU03, XGTB18, YF14].

**Modular** [HK17]. **Modulated** [Sco99].

**Modulo** [FHVW03]. **Moments** [Gel95, KR17, Tho93, YC04, YMLY11].

**Momentum** [Rho03]. **Monitoring** [BG98, SG05, VS17]. **Monotone** [FX21, LT98, LBM<sup>+</sup>14, Wan08].

**Monotonic** [TL07]. **Monotonically** [Yu12].

**Monotonicity** [BJG98, CGH99, HHGG01, HV19]. **Monte** [Ano07a, BG00, FHIT20, JS13, MFMR19, OKL21, PP14, SHC00, SBF19, BGD16, BP98, Bro06, BC19, CB01, Can99, CGMR04, CS99, CF05, Chr04, CRS06, DG14, DH03b, DBS06, DMP14, FBG06, FKH07, Fea02, Fea05, Fis12, FWR12, GS94, Gel95, Gey95, GVDP99, God01, GF16, GLW07, GR08, Gra07, GMP04, GJR05, HT17, Hel04, Hob08, HLH06, HW21, HK98, Ish99, JN04, JB03, JHD21, JT21, JO02, Kit96, Kle19, LGS13, LSSG15, LYG<sup>+</sup>10, LC01, Lia07, LJN<sup>+</sup>17, MP00, MN97, MDS20, ML08, NJM20, PCP11, PH21, RJLW21, SNR17, SS06, Spa05, Tan06, Tan15, WJG11, XBW15, YSDJ15, YT99, ZC15, ZZ08, ZJA16, dV08].

**Morse** [GRB<sup>+</sup>13]. **Mortality** [SH17].

**Mosaic** [Fri99, Fri02]. **Motif** [CC18].

**Movies** [LK02, LTW<sup>+</sup>10]. **Moving** [HCB04]. **MPPCA** [HLH15]. **Much** [Bri11, FK11, Gel11a, Gel11b, Kos13, Wai11, Wil11].

**Multi** [ACJ21, BVZ20, JK21, MS18a, MHS11, PNLL21, WYZ19, vdWvNR21].

**Multi-Class** [ACJ21, MHS11].

**Multi-penalty** [vdWvNR21].

**Multi-Resolution** [JK21].

**Multi-Response** [WYZ19]. **Multi-Scale** [MS18a]. **Multi-Valued** [BVZ20].

**Multicategory** [LW08, LSD05, LY11, ZLWZ16]. **Multiclass** [HLD<sup>+</sup>13, TZ06, Wan13, WZW19].

**Multidimensional** [AvD20, BSL<sup>+</sup>08, CMG21, HLB<sup>+</sup>21, Huh95, Hur04, MY94, Par18, RB02, ZSK19].

**Multilayer** [Li05]. **Multilevel** [AM07, BEGS17, HJNR19, PC06, ZCY<sup>+</sup>11].

**Multilinear** [Paa99]. **Multimodality** [TMvD18]. **Multinomial** [KN06, Kwo98, PGR19, RDL07, WBQ20, YKW03].

**Multinomials** [DS94]. **Multiobjective** [DCT08, SMK15]. **Multiple** [AvD20, BEM13, CR99, GM16, HT17, HH06a, HM15, HP94, HN98, HLW22, JKD92, KTS17, KCB19, LWLY17, LBM<sup>+</sup>14, LJZD05, MA19, MJLK21, PHK14, PMI20, PMS21, QN00, RG09, SS12, SQCK20, SSP<sup>+</sup>18, SHL19, TDH15, TZ12, Wai93, YK01, YLCR19, ZHJ16, ZY21].

**Multiple-Runs** [ZHJ16]. **Multiple-Try** [YLCR19]. **Multiplicative** [PCGM20, SM13]. **Multiresolution** [FMM<sup>+</sup>19, HLH06, NBH<sup>+</sup>15, ZY05].

**Multiscale** [ABvS09, EH05, LX16, PLH10, RW10].

**Multiset** [HML18, HSC18, KM15].

**Multistage** [Fis12]. **Multitapers** [BPW93].

**Multitype** [LG20]. **Multivariate** [BCH09, CTB19, CCH16, DG18, DZZ06, DK18, DRG19, EM07, FXC21, Fri07, GDS02, Gas03, GKT18, Gen92, GB02, GMTK13, GG17, GR93, HPZ21, Hof09, HB98, JHL09, JP95, KR17, KFSL17, Kle04, Kle06, Kle08, KMQ05, Kus06, LW19, LN09, LL10, LMC22,



LS05, MVR14, MKK18, MWDR21, Mou09, PP14, PM20, PP07, PLW01, PV04, PWPS97, PM16, RYY00, RLZ10, Rou08, Rup92, SM19, SY02, SBE17, SK10, Som98, SH97, SW18, TDM12, Tho93, TGM<sup>+</sup>14, Tre06, Unw19, VHSG20, Wan94, WWG<sup>+</sup>97, WJZ09, YT21a, Zha97, ZJRI10, ZZZS17, ZL10]. **Multivariate-** [Som98]. **Musical** [Rap01]. **Mutagrams** [MW04]. **Mutually** [GR08].

**Natural** [Wil00]. **Nearest** [FDC<sup>+</sup>19, Gho07]. **Need** [VH15]. **Needles** [DS21]. **Needs** [MC17]. **Negative** [BHF02, Gao98]. **Neighbor** [FDC<sup>+</sup>19, Gho07, Hob08]. **Neighbor-Dependent** [Hob08]. **Neighborhood** [FWR12]. **Nested** [GD21, GLC20, LMC22, RYY00, YLM17]. **Net** [Cul13, Hel21, QYZ16, TNNK20, YH17, CCS03]. **Network** [CKHG15, CC18, CZZ15, EM18, Fie12, FMM<sup>+</sup>19, GM16, HK06, HKS12, JL13, KS99, Lee02, MA19, MOPW20, Mci99, MBM18, OPV22, RNHY12, WW12]. **Networks** [ABG<sup>+</sup>21, ASPL21, BC16, BRB17, CGLW21, Eve12, GM15, HABV06, HPZ21, HH06b, Ish99, MMA97, MCF<sup>+</sup>20, Mic12, MJLK21, MRCM18, MM20, STM15, ZWLZ17, ZH17]. **Neural** [CGLW21, HPZ21, Ish99, KS99, Lee02, MJLK21]. **Neurophysiology** [Bri94]. **Neutral** [Lee07]. **Newton** [HYL<sup>+</sup>17, YH17]. **Next** [SH03]. **NicheWorks** [Wil99]. **NIMBLE** [dVTP<sup>+</sup>17]. **no** [Bak92a]. **Nobler** [PRS11]. **Node** [KL03, ZCS<sup>+</sup>19]. **Nodes** [KM03]. **Noise** [HMP96]. **Noisy** [DIR02, GG20, HQT92, SBF19]. **Non** [BGLM18, Gao98, Gu92, GX01, Kit96, MC18, PNLL21]. **Non-Convex** [BGLM18]. **Non-Gaussian** [Gu92, GX01, Kit96, MC18]. **Non-Negative** [Gao98]. **Non-Smooth** [PNLL21]. **Noncentral** [Ano06a, KGMT06, Tsi02]. **Noncollapsing** [CLHW19]. **Nonconvex** [LB15, PW15, Wan18, YLW17]. **Noncrossing** [KCB19, RF17a]. **Nonlinear** [BB21, BB03, CHW12, CH09, CAR<sup>+</sup>10, CGLW21, ERPG11, FH15, FX21, Kit96, KC20, MHDW19, NLF<sup>+</sup>06, NW10, PB95, Sin02, Ska02, WK09, WYZ19, ZYKC08]. **Nonlinearity** [FSMV02]. **Nonlinearly** [Pro06]. **Nonnegative** [PA14]. **Nonnormal** [GM18, NLF<sup>+</sup>06, OM19]. **Nonnormality** [LN09]. **Nonparametric** [AVW13, BCH09, BH01, BGP03, CAR<sup>+</sup>10, CH16, CGH99, CH99, DXL12, DK18, DZ99, FM94, Far04, FH15, GK02, Gra96, GM05, HHGG01, HC11, Hel21, HV05, Hil11, Hof00, HB16, IL16, Jon98, Kar21, KW01, KT03, KLH99, KMQ05, KS11, LLZ09, LHL03, MS93b, NMD<sup>+</sup>20, OBGC21, OLN11a, OLN11b, PHK14, Qiu02, QN00, QM04, RHC<sup>+</sup>14, RMWH17, SBT00, SG03, SK10, SSS07, SBEG94, WH98, WKC<sup>+</sup>08, YT21a, YKW03, ZJ04, ZH03]. **Nonparametrically** [RW99]. **Nonregular** [TN14b]. **Nonreversible** [GD21]. **Nonseparable** [GX20]. **Nonsmooth** [FS18]. **Nonstandard** [Spa05]. **Nonstationary** [AHNC13, CHH10, CMG21, DGW09, Gri99, HMP96, IP04, KSM14, KKB21, LRFK21, THSM<sup>+</sup>20, YS10, ZW10]. **Norm** [LZ08]. **Normal** [CGEMIR18, DW01, DV04, EGO92, FIK19, GDS02, Gas03, GKT18, Gen92, IJ02, KR17, KW10, LS93, LN09, LL10, LH15c, SG05, SG03, Som98, SH97, VL09]. **Normal-Inverse** [DV04]. **Normal/Independent** [LS93]. **Normalized** [GW11, Hof19]. **Normalizing** [Lee02, SRE06, ZF18, dV08]. **Normals** [GK10]. **Note** [Fri00, MR01]. **Notes** [Wic13]. **Novel** [LQ21, OSR<sup>+</sup>18, ZF18]. **NPMLE** [AB17, Maa05]. **NSHP** [VM04]. **Nugget** [PW14]. **Null** [SSL<sup>+</sup>16]. **Number** [CGEMIR18, CD19, FP20, Kou14, Rup02, YKZ18]. **Numbers** [Lia98]. **Numerical** [EGO92, Gen92, JS95, Som98].

**Numerically** [KN06]. **Nyström** [HM16, SS12].

**O3** [Unw19]. **OAK** [Wic11a]. **Oberon** [Mar96, Saw96]. **Object** [FF94]. **Object-Oriented** [FF94]. **Objective** [BHK15, Gel00, GH00, HL00b, Kie00, LHY00, Men00, Wu00, dLM00]. **Objects** [SSB+14]. **Observation** [KB99]. **Observational** [BVZ20, KSR19, LSFI18, Ros12, Ros17]. **Observations** [FM10, GRG10, LGS09, PM16, SSP+18, TU11, VLNO18]. **Observed** [ASPL21, Bak92b, LQ21, LH02, NFM16, PSTV15, SY07, ZWLZ17, Bak92a]. **Obtaining** [Fri00, KS04, LPM98]. **Occurrences** [CH99]. **Occurring** [EM18]. **Ocean** [ES19, HMN+03]. **Odds** [Hof01, LH95, PLIK02, ZZL18]. **Off** [CHSR19]. **Offset** [FIK19, KW10]. **Offset-Normal** [KW10]. **Old** [Gas03, VRH19]. **Omegahat** [Lan00]. **One** [AvD20, GH21, LFS+17, Lum19, Ste12, Tad17, TPA19]. **One-Factor** [TPA19]. **One-Step** [GH21, LFS+17, Lum19, Tad17]. **Online** [Cap11, KDM16, SJ05, WCSY21, YSD13]. **Onto** [HLP07]. **Open** [Fie12, Sha14]. **Open-Faced** [Sha14]. **Operations** [Bau19]. **Operators** [KO05]. **Opportunities** [Kos13]. **Opposing** [PRS11]. **OPTICS** [RHM18]. **Optimal** [CDP04, CLHW19, CR08, DASR08, DGM17, GM18, HK06, KYW19, LR04, MHDW19, MR01, Ros12, Ros17, SHL12, WYZ19, Zha03, ZNR21]. **Optimality** [XSC19]. **Optimally** [QTV+21, Ros12, Tan17]. **Optimization** [ACJ21, BRS+08, CC08, CJS92, DCT08, GP11, HKP16, HBG22, KKK08, KS99, LHY00, LPJ13, LL15, OW97, PL22, ST19, SC19, XBW15, ZGTG21, Gel00, GH00, HL00b, Kie00, Men00, Wu00, dLM00]. **Optimization-Assisted** [ZGTG21]. **Optimized** [RMH21]. **Optimizer** [JS95].

**Optional** [JMY+16]. **Oracle** [KLH99]. **Orca** [SRL+00]. **Order** [BB03, CHG16, CTW20, EHW03, FG95, Fea04, HK22, JV01, Mar94, MM20, QM04, RYY00, SQ07]. **Ordered** [BQS94, LBM+14, LKW09, MPS92, MC05, QE96]. **Ordering** [CR99]. **Orderings** [vIM97]. **Ordinal** [CBL20, DK18, GLMZ15, KT03, KMQ05, TG13]. **Ordinary** [CHW12, CGH17, Gra96]. **Ordination** [ZZW21]. **Organizing** [MM97]. **Oriented** [FF94, Kei96]. **Origin** [LA12]. **Origin-Destination** [LA12]. **Orthant** [AG18]. **Orthogonal** [JAJ19]. **Orthogonally** [CT01, PAP22]. **Orthonormal** [CBC93]. **Other** [BML19, RW10]. **Oue** [FB94]. **Our** [YM11a]. **Outcome** [RNM18, WSM+20]. **Outcomes** [LT94, VG01, XGTB18, Yan21]. **Outer** [EM96]. **Outlier** [CB20, DG18, HL06, JP96, KH21, MT03, PP07, WWG+97, ZB10]. **Outliers** [AR06, BH02, CR99, MM97, RA01, Unw19, WJZ09]. **Outlying** [NGH17]. **Outlyingness** [RRH18]. **Output** [BCE20, FBG06, Hel04, LK02, dV08]. **Outrageous** [PRS11]. **Over-Dispersed** [AC95]. **Overlap** [Mel16]. **Overrelaxed** [Yu12].

**P** [Ano08a, AGV12, BMC05, LB04, SL10]. **P-splines** [Ano08a, AGV12, LB04, SL10, BMC05]. **Package** [BY18]. **Packet** [CCS03, GVBM04, WM03]. **Page** [Ano92b, Ano92c, Ano92d, Ano92e, Ano93a, Ano93b, Ano93c, Ano93d, Ano94b, Ano94c, Ano94d, Ano94e, Ano95a, Ano95b, Ano95c, Ano95d, Ano96c, Ano96d, Ano96e, Ano96f, Ano97a, Ano97b, Ano97c, Ano97d, Ano98a, Ano98b, Ano98c, Ano98d, Ano99a, Ano99b, Ano99c, Ano99d, Ano00b, Ano00c, Ano00d, Ano00e, Mur99]. **Painless** [Bau19]. **Pair** [BC16, LR04, VN18]. **Pair-Copula** [BC16, VN18]. **Pairs** [EGS+13, Fri14]. **Pairwise** [HO10, Mel16, Pie04]. **Panel**

[LG03]. **Paradox** [Eld03]. **Parallel** [Bro06, JRS11, LYG<sup>+</sup>10, LWLY17, MJVB18, MMV13, Mou09, MLJ16, Paa99, PCG<sup>+</sup>14, RHC<sup>+</sup>14, RTL07, Šev04, SWC<sup>+</sup>10, TNKK16, YWL<sup>+</sup>15, YLW17]. **Parallelizable** [KYW19, RAM19]. **Parallelization** [CMN21, HLB<sup>+</sup>21, TEFH20]. **Parameter** [BRS11, Eve12, FS18, HM15, LD06, MBM18, NFM16, Sin02, TS13, XCSP16, YSDJ15, ZR21]. **Parameterization** [MWDR21]. **Parameterizations** [BS19, GvDHB08]. **Parameters** [CHW12, CTW20, EGO92, Mil19, ZW07]. **Parametric** [CSY00, CS14, DG14, KS04]. **Parent** [MMO01]. **Parsimonious** [CH16, FQH16]. **Part** [KK09]. **Partial** [DS00, DG05, Fri99, GKZ10, WR05]. **Partially** [BQS94, LR05, LBCG16, MJVB18, PvD09, SDBD21, VJ15, YZ07, ZHJ16, ZWLZ17]. **Particle** [Ano07a, CMN21, Fea02, Fea05, GP11, KP03, MLJ16, NFM16]. **Particular** [Fal99]. **Partition** [GD16, Mei11, MQR11, Sta94, WCKL19]. **Partitional** [HH11]. **Partitioning** [HDRM05, HHZ06, IW10, OSR<sup>+</sup>18, ZHH08]. **Path** [AT16, EFLT94, Hoe10, HW21, LSV<sup>+</sup>09, RMR<sup>+</sup>17, ZL16, ZL13]. **Path-Following** [ZL16]. **Path-Integral** [HW21]. **Paths** [Ho06, Tad17]. **Pathwise** [LPJ13]. **Pattern** [HC07]. **Patterns** [DG14, EM18, ES19, LA12, MM09, MRCM18, SMN15, YL99]. **PC** [KB08]. **PC-Algorithm** [KB08]. **PCA** [JWH16, SBJ17]. **Peak** [GK97]. **Pearson** [Sta95]. **Peeking** [GKBP15]. **Penalization** [SMB14]. **Penalized** [Ano08a, BMC05, BHK15, CHW12, CRC<sup>+</sup>07, DT13, FLY21, FKLW08, Fu98, GBW17, GTZH16, GBC<sup>+</sup>11, HPOL14, HM20, JAJ19, KCO09, KCK08, LPHK16, Lin99, LLZ09, LVH17, MBGO11, MR19, NST12, Par05, PW15, RMWH17, Rup02, SBJ17, SSMN16, TCCSB10, TGP03, YT21a, YSK<sup>+</sup>10, YH17, YF14, YLW17]. **Penalties** [CGR17, GH20, HEF17, LB15, LW07, MPS17, YT21b]. **Penalty** [Efr05, FML19, FS18, KK09, SLR21, SBR10, Yen20, vdWvNR21]. **People** [WCH20a]. **Perfect** [GHW02]. **Perform** [LYG<sup>+</sup>10]. **Performance** [CS93, MM10]. **Performing** [YK09]. **Permutation** [WLWM16]. **Persistence** [BM19, MGL18]. **Perspective** [ST19, dR07]. **Perturbation** [CZSL10]. **Perturbative** [PRHP14]. **Phase** [ZKS18]. **Phase-Amplitude** [ZKS18]. **Phases** [FCL10]. **Phylogenetic** [CH12, MN97, WB18b]. **Physical** [LPS99]. **Physics** [KP03]. **PICTs** [JH98]. **Piecewise** [GN17, Kat10, KO05, MVR02, OT11, WJG11]. **Piling** [LAJ13]. **Pillai** [Mul98]. **Pivotal** [LF16]. **Pixel** [Kei96]. **Pixel-Oriented** [Kei96]. **Plackett** [Gas03]. **Plaid** [MM14]. **Plane** [AHNC13]. **Planets** [EM96]. **Pleiotropy** [XCSP16]. **Pleistocene** [RL14]. **Pliable** [TF20b]. **Plio** [RL14]. **Plio-Pleistocene** [RL14]. **Plot** [BY04, BBLG13, EGS10, EGS<sup>+</sup>13, Fri13b, GB00, GF15, Hur93, LACRM06, LN09, Rob19, Unw19, dSM04, Fri14]. **Plot-Data** [Hur93]. **Plots** [BCL94, BEM13, Fri07, GKBP15, Gra13, GW15, HH11, HWK17, HMS97, HS10, LFZ97, MHD20, Mou09, MHS11, Mur99, MI00, PV04, SS11]. **Plotting** [GMF16, Tre95]. **Plug** [BF02]. **Plug-In** [BF02]. **Plus** [BHS00]. **Point** [BCST13, BM19, Cai99, CS98, CH16, DG14, EM18, HC07, JP95, LCSL14, LKB21, LA12, MLP07, MGL18, MRCM18, MM20, RL14, SG17, WR05, ZY21]. **Points** [CR08, Laz05, LRR20]. **Pointwise** [Efr05]. **Poisson** [Fri00, CMN21, CS20, FW13, FN04, GM20, GRM09, HL03, LPM98, LFT17, Mar10, OC01, QYZ16, QTV<sup>+</sup>21, Sco99, YK01]. **Polar** [JHD21]. **Polishing** [Lum19]. **Polya** [HMJ11, JHL09, JMY<sup>+</sup>16, NBNA21]. **Polyclass** [KS99]. **Polygons** [MHD20]. **Polynomial**

[BHF02, EB02, FG95, Sam15, SG00, TW96]. **Pooling** [GR99]. **Population** [CGMR04]. **Populations** [GRVE18, KTS17]. **Portfolios** [BO05]. **Posed** [KN97, RO94]. **Positive** [AHNC13, COvS19, GW18, LS04, MS93a, ZRL14]. **Positivity** [OC01]. **Possibilities** [Lan00]. **Possible** [BL04]. **Possibly** [DR18]. **Post** [CR98]. **Post-Processing** [CR98]. **Posterior** [BRS11, BRS12, CGR06, CYS09, Coz99, GD09, GW11, Guh08, Hel04, Lee02, Tho93, Vie00, WCKL19, WCM21, ZB10]. **Posteriors** [HC98]. **Postsmoothing** [QS09]. **Potatoes** [GM93]. **Potts** [MSS08, MW14, MQ17]. **Power** [AVW13, BMO01, FN16, PCP11]. **Power-Conditional-Expected** [FN16]. **Powered** [MR16]. **Practical** [BGL18, GF16, KHM05]. **Pre** [Bro06, JS20]. **Pre-Experimental** [JS20]. **Pre-Fetching** [Bro06]. **Precision** [AAN17, Fri13b, KKS17, Mai97, PMS21, SLBV18, WB18a]. **Predetermined** [RS01]. **Predicted** [DPS11]. **Predicting** [BCE20, SH03]. **Prediction** [BMW17, De 05, DCS16, ESR<sup>+</sup>14, FH15, HDRM05, HCG02, MA19, Ste92, TW05, WH14, WM19, XP07, ZWLZ17, ZW10]. **Predictive** [CYS09, HZ21, LS05, ZB10]. **Predictor** [KPC02, LJZD05]. **Predictors** [CTC09, CL09, HY17, LD21, MR19, SBZ13, SH06, WCR13, XGTB18]. **Presence** [BBvdW16, CGJ09, LKB21, SMS<sup>+</sup>14]. **Preserving** [Kan20]. **Prevalence** [FCWM17]. **Preview** [Lev12, Lev13b]. **Primary** [Ano01b]. **Principal** [CRGS17, Dan97, Fal99, Far12, GJL<sup>+</sup>10, GAZ15, HLH15, HM16, JCZG19, JU00, JTU03, KXY20, KTZQ20, LRB12, LW09, LSH16, LO16, MHH15, Par05, PP09, RMWH17, WH17, YLM17, ZP14, ZCY<sup>+</sup>11, ZHT06]. **principles** [Tuk93a]. **Prior** [Coz99, GDM14, GD09, GM18, IJ02, LD11, LLM09, LHK17, RRG<sup>+</sup>21]. **Priors** [DV04, DH03b, FN16, GD16, GR99, HHL19, JT21, NM98, PP96, TH09, Tok07, Vie00, WP13]. **Private** [BRMC19]. **Probabilistic** [GG20, HLH15, Rap01]. **Probabilities** [AG18, CB01, GDS02, Gas03, GKT18, Gen92, GB02, Som98, SH97, WK17]. **Probability** [Bor11, Coz99, FKH07, GHCU22, Hel04, LFZ97, NLF<sup>+</sup>06, WZW19]. **Probit** [MC05, TDM12]. **Problem** [CC08, CJS92, JAJ19, LF16, LAB22, LH15c, PII0, TAS<sup>+</sup>17, Zhu17]. **Problems** [BCDL17, Bri94, BK03b, CDP04, CCHS08, FS18, GBW17, GV01, Gv97, HM09, JP96, Kat10, KN97, LHL21, LGS09, MS18b, OC01, OT11, Paa99, PRS11, RW10, RO94, Vel08, Yen20]. **Procedure** [JN04, Qiu02, SMK15, XGH11, XGT15, YK01]. **Procedures** [AG05, LG07]. **Process** [ACS17, BCST13, BGL18, BM19, CSY00, CS18, DH03b, GK02, GAS20, GP11, GA15, GX20, GHW02, IJ02, JN04, Len03, LCSL14, LHK17, MK20, MM98, MR16, Nea00, NBH<sup>+</sup>15, OW97, RRG<sup>+</sup>21, Sco99, Tok07, WD11, YK01, ZNYJ14, ZLR18]. **Processes** [BMG16, Cai99, CHG16, CH16, CMG21, CP18, DZZ06, FDC<sup>+</sup>19, HCG02, Lee07, LCSL14, MP16, MLP07, MW96, MM20, NST12, SG17, SY07, SSL17, WR05, Whi01, WJG11, WC94, ZR21]. **Processing** [CR98, FT16, JYYZ18, Lev12, Lev13b, YWL<sup>+</sup>15]. **Processor** [Rho03]. **Product** [MQR11, RRG<sup>+</sup>21, WH14]. **Profiles** [CJ02]. **Program** [CH93, LBM<sup>+</sup>14, MC17, Paa99]. **Programmers** [Cha00]. **Programming** [Joh13, KCSA20, LKW09, SWC<sup>+</sup>10, WYZ19, YASR20, ZY21, dVTP<sup>+</sup>17]. **Projected** [NBNA21]. **Projecting** [HLP07]. **Projection** [BK03a, CBC93, CBCH95, GH18, IW10, LCKL05, MJ18, PP05, Pos95, QLCZ15, RH94, SS19, WS02a, WLWM16, dSCL21]. **Projection-Based** [GH18, IW10]. **Projections** [CB97, OFR<sup>+</sup>18, SLR16, FB94]. **Projective** [GM99]. **Prony** [KMOS92]. **Proof** [LZ18]. **Proof-of-Concept** [LZ18]. **Propagation**

[MBS04]. **Proper** [NM98]. **Properties** [BF02, CVA08, DS94, ES98, GM20, JS95, RS01, Ste13, VDC21]. **Proportional** [SS11, ST19, XGH11, XGT15, XW20]. **Proportions** [KCSA20, Kwo98]. **Proposals** [HMJ11]. **Prosection** [FB94]. **Providing** [MI00]. **Proximal** [TZ06]. **Proximity** [RMH21]. **Proxy** [RL14]. **Pruned** [ZY21]. **Pruning** [FWR12]. **Pseudo** [DIR02, HO99, Len09, SDBD21]. **Pseudo-Bias** [Len09]. **Pseudo-Likelihood** [DIR02, HO99, SDBD21]. **Pseudolikelihoods** [BFM18]. **Publications** [Ano01c, Ano01d, Ano02a, Ano02b, Ano02c, Ano02d, Ano03b, Ano03c, Ano03d, Ano04a, Ano04b, Ano04c, Ano05a, Ano05b, Ano05c, Ano05d, Ano06c, Ano06d, Ano06e, Ano06f, Ano07c, Ano07d, Ano07e, Ano07f, Ano08d, Ano08e, Ano08f, Ano08g, Ano09c, Ano09d, Ano09e, Ano09f, Ano10c, Ano10d, Ano10e, Ano10f, Ano11c, Ano11d, Ano11e, Ano11f, Ano12c, Ano12d, Ano12e, Ano12f, Ano13c, Ano13d, Ano13e, Ano13f, Ano14c, Ano14d, Ano14e, Ano14f, Ano15c, Ano15d, Ano15e, Ano15f, Ano16d]. **published** [Ano12b, OLN11a]. **Publishing** [LTW<sup>+</sup>10]. **Pursuit** [BK03a, CBC93, CBCH95, LCKL05, PP05, Pos95, RH94, SS19, dSCL21]. **Pyramid** [RDBF19].

**q** [RK22]. **QGPCP** [Mou09]. **Quadratic** [Ano06a, KGMT06, KCSA20, Vel08, Wan18, YASR20, ZSW22]. **Quadrature** [CZ02, GM18, PC06]. **Quantification** [LHL21, RSKZ19, XBW15]. **Quantifying** [BL17, RHM18]. **Quantile** [BY04, BEM13, Che07a, Dia99, DGW09, DS96, FLY21, FSR20, HL00a, Hut02, KCB19, LZ08, OLN11a, OLN11b, OT11, PLH10, PW15, RF17a, RDBF19, Ros17, SK10, STZM09, YNH18, YH17, YLW17]. **Quantiles** [Bre04, CGR06, KHM05, MJLK21, MT00, PLH10]. **Quantities** [TW96]. **Quantization** [Bra02, BFE<sup>+</sup>03]. **Quantized** [Mou09]. **Quantum** [HW21]. **Quasi** [Ano07a, BCH05, BC19, Fea05, HYL<sup>+</sup>17, HPZ21, Lia98, Yan21]. **Quasi-Empirical** [Yan21]. **Quasi-Monte** [BC19]. **Quasi-Monte-Carlo** [Ano07a, Fea05]. **Quasi-Newton** [HYL<sup>+</sup>17]. **Quasi-Random** [HPZ21]. **Quasi-Symmetry** [BCH05]. **Quasicomplete** [Ish99]. **Question** [HR11, YM11b]. **Quick** [Kwo98].

**R** [BY18, BML19, IG96, RTL07]. **Radial** [BRS<sup>+</sup>08, CZ02]. **Rainbow** [HS10]. **RAMlet** [ST04]. **Random** [Ano07a, BSZ22, BK20, BFM18, CC13, CS98, CBL20, CDFB11, CK08, De 05, DES93, DH10, DZfZ18, DIR02, ES98, Eve12, Fea05, FN16, FPRW09, Fri13a, GW18, GH21, GW11, Guh08, HHC03, HC11, HPA14, HPZ21, KKLN20, LRO18, Lia98, LPJ13, LSF118, Mah17, MPS21, MH17, MKK18, ML08, NLF<sup>+</sup>06, NJM20, PCP11, PH21, PP07, RYY00, Rya03, STM15, SH06, Ska02, SS06, SLR16, Ste12, Sue12, TH09, TF20a, TAS<sup>+</sup>17, TA12, TG13, WSM<sup>+</sup>20, WK17, XNN16, XGTB18, YK09, YS10, ZF18]. **Random-Direction** [CS98]. **Randomization** [TVZ<sup>+</sup>22]. **Randomized** [DS96]. **Randomness** [MDS20]. **Range** [HEF17, HGK10]. **Rank** [BMG16, CHW08, CSK10, HS18, Kus06, LMC22, MPS92, MS93a, MS18b, PRHP14, TSH16, ZRL14, PAP22]. **Rank-Based** [ZRL14]. **RAPTT** [SLR16]. **Rate** [BGLM18, Gra96, HHGG01, Jör09, ZZL18]. **Rate-Distortion** [Jör09]. **Raters** [LT94]. **Rates** [GRM09, Hob08, HCZMH21, SH17]. **Ratio** [ACJ21, BBLG13, FKH07, GCKP08, LH95, PLIK02, Zho05]. **Rational** [BK20]. **Ratios** [Ano06a, Hof01, KGMT06]. **Raw** [LPPT17]. **RC** [KNN05]. **Real** [HMW06, LBW14, MDD<sup>+</sup>12]. **Real-Time** [HMW06, LBW14, MDD<sup>+</sup>12]. **Realized**

[SM13]. **Really**  
 [Bri11, FK11, Gel11a, Gel11b, Wai11, Wil11].  
**Recapture** [BBLG13]. **Recentered**  
 [MMN<sup>+</sup>13]. **Reclassification** [Hea11].  
**Recognition** [BMO01, FHVW03, NGH17].  
**Recognize** [MMO01]. **Recombine** [XW18].  
**Recommender** [WBQ20]. **Reconciliation**  
 [AHS22]. **Reconstructing** [MK92]. **Record**  
 [RL14]. **Rectangular** [QE96]. **Recurrent**  
 [LG20]. **Recursive**  
 [HHZ06, OSR<sup>+</sup>18, TA12, VM04, ZHH08].  
**Recycling** [CR98]. **Redistricting**  
 [FHIT20]. **Reduce** [GH21]. **Reduced**  
 [GR12a, Kus06, LMC22, MPR<sup>+</sup>12, PH21].  
**Reduced-Dimensional** [PH21].  
**Reduced-Rank** [Kus06, LMC22].  
**Reduction**  
 [CL09, FG95, FX21, Hen04, HV05, HY17,  
 KH21, Lia98, Maa05, SY16, SBJ17, Vel08,  
 WY15, YC04, ZYKC08, ZYZ10].  
**Redundant** [GvDHB08]. **Reemployment**  
 [KK09]. **Reference** [RW99]. **Regeneration**  
 [BK05, TH09]. **Region** [GB12, SHMD<sup>+</sup>14].  
**Regional** [BCD11]. **Regions**  
 [BL04, CDP04, CLHW19, LMM19, MB18,  
 SHL19, Som98]. **Registration**  
 [Big06, EH17, LHK17, ZSK19]. **Regressing**  
 [XMY13]. **Regression**  
 [AG96, AB21, Ano08a, AR06, BMC05, BG92,  
 BRMC19, BB03, BRB17, Bil00, BQS94,  
 BJC98, BBvdW16, CTC09, CKNK06,  
 Che07a, CHW08, CT01, CDFB11, DR18,  
 DK18, DCV10, ET99b, EC14, FG05, FLY21,  
 FM12, Far04, FSR20, Fon19, GK06, GRB<sup>+</sup>13,  
 GBC<sup>+</sup>11, GHC14, Gra96, HHL19, HL06,  
 HB92, Hel21, Her97, HK10, HRM02, HM20,  
 Hug15, HL00a, IL16, JWB13, JT21, KLSR05,  
 KCO09, KCF21, KLH99, KSM<sup>+</sup>18, KNS21,  
 KHM05, Koo97, KS11, KB20, LGS13, LS93,  
 LRO18, LB15, LZ08, LX16, LAB22, LPHK16,  
 LRR20, LG92, LCWW17, LJZD05, LMC22,  
 Loc18, LQ19, LQ21, LR14, LBW14, MP16,  
 MA19, MAJ<sup>+</sup>98, Mar10, MKK18, MDC17,  
 MWDR21, MQR11, MQ17, NY14, NTVK12,  
 OW97, OLN11a, OLN11b, OT11, Par01,  
 PLH10, PHK14, PW15, PMI20, PAP22,  
 PCG<sup>+</sup>14, PCGM20, PGR19, QLCZ15, QE96].  
**Regression** [QY97, Qiu02, RRSY19,  
 RSKZ19, RHC<sup>+</sup>14, RMWH17, RF17a,  
 RDBF19, RLZ10, RKL03, Rup92, SS11,  
 SBY06, SBWZ08, Sam15, Seg94, SG00,  
 SBZ13, SMK15, SDBD21, Smy02, SW18,  
 SWF04, SQ07, TRS97, TCCSB10, TW96,  
 TL07, TG10, Wan08, WL08, WK09, WH14,  
 Wan20, WBS21, WS02b, WYZ19, WKC<sup>+</sup>08,  
 WCR13, Wu08, WLM10, XWZ15, XSC19,  
 XY14, YNH18, Yan21, YT21a, YKW03,  
 YSK<sup>+</sup>10, YH17, YC04, YF14, YWL<sup>+</sup>15,  
 YLW17, ZZZS17, ZOR12, ZCO15, ZZ08,  
 ZH05, ZYZ10, vdWvNR21, ET99a, McC99].  
**Regressions**  
 [CL09, Fu98, HDM02, HJR03, KCB19].  
**Regularization**  
 [All13, CTB19, CMJ11, FS18, Kat10, KN97,  
 LH15b, LMC22, LQ21, MBM18, MBGO11,  
 PMS21, Tad17, WNA20]. **Regularized**  
 [CH09, GN17, Hel21, Kus06, WH17, Yua08].  
**Regularizing** [RIC<sup>+</sup>16]. **Regulation**  
 [CZZ15]. **Reinforced** [LY11, ZLWZ16].  
**Reject** [CR98]. **Rejection** [GT11, Tan06].  
**Rejoinder** [BF94, Cle93b, ET99a, Gel04b,  
 Gel11a, HL00b, Tuk93b, You95, YM11a,  
 vDM01b, FB94, Tuk93a]. **Relabeling**  
 [LAB22, RW14]. **Related** [HK06, KMOS92,  
 KSR19, LYHM15, LD11, OT11]. **Relational**  
 [Hof09, MCF<sup>+</sup>20]. **Relationship**  
 [BM99, God01]. **Relationships**  
 [HM11, Hob01b]. **Relaxation** [SBT00].  
**Reliability** [KM03, KY95]. **REML**  
 [LPJ13, Smy02]. **Remote** [BFE<sup>+</sup>03].  
**Removal** [Ano13g, CB20]. **Renewal** [CS18].  
**Reparameterization** [LD06].  
**Reparameterizations** [KLR18].  
**Reparameterized** [CYS09]. **Repeated**  
 [TRS97]. **Repelling** [TMvD18].  
**Repelling-Attracting** [TMvD18].  
**Reported** [XGTB18]. **Representation**  
 [FLY21, HABV06, Kel11, Pie04, QG06,

SSP<sup>+</sup>18, Wu11]. **Representations** [HP94, Wil96]. **Representative** [BVZ20, Seg94]. **Representing** [MC18]. **Reproducibility** [BML19]. **Reproducible** [Bau19, GL07, HBG22]. **Reproducing** [VRH19]. **Repulsive** [SG17]. **Rerandomization** [JS20]. **Resampling** [CMN21, HSM09, MLJ16, Tan15]. **Rescaled** [Kle19]. **Rescaling** [CR98]. **Research** [GL07, HMN<sup>+</sup>03, LBM<sup>+</sup>14]. **Residual** [BCST13, Dia99, LH15c, MHD20, XMY13, Yan21, ZMH07]. **Residual-Based** [ZMH07]. **Residuals** [BY04, CWZ21, DS96]. **Resolution** [HMS97, HCG02, JK21, MKE<sup>+</sup>21, RIC<sup>+</sup>16]. **Resolution-Consistent** [HCG02]. **Resonance** [EFG<sup>+</sup>99]. **Resources** [BP98]. **Response** [CDP04, GPGMFB14, MM09, MWDR21, OW97, PGR19, SHL12, TS13, VL09, WYZ19]. **Responses** [FXC21, MKK18, OM19, PM20, WBQ20]. **Restarts** [HV19]. **Restoration** [CSY00, GJ97, Glu00, Glu04]. **Restore** [VM04]. **Restricted** [CJ09, GCKP08, RF17b]. **Results** [PRHS18]. **Return** [SLR21]. **Returns** [NAB16]. **Revealing** [Gra13]. **Reversible** [KA13, ML08]. **Reversing** [LCL22]. **Review** [Lev11]. **Revisited** [CT01, GX01, ST19]. **Revisiting** [VRH19]. **Reweighted** [HB92, LP07]. **Reweighting** [ZB10]. **Rhythms** [FCL10]. **Richard** [Tuk93a]. **Ridge** [Fri13b, HQT92, PGR15, XSC19, vW19, vdWvNR21]. **Ridgelines** [LL12]. **Ridging** [SG00]. **Riemannian** [MPS21]. **Right** [Lee07]. **Ring** [BW17]. **Risk** [BO05, BOW02, KK09, MAJ<sup>+</sup>98, ZJRI10]. **Risks** [KSSL21, PP96]. **Road** [MMW98]. **Robust** [BHS04, CC08, CP16, CHW08, CS14, CRS06, FD21, HL06, HR05, HB92, HRV12, JK00, KN06, LS93, PP07, PLW01, PV04, PWPS97, SS01, SH00, TEG19, VM04, WLZB07, WJZ09, WYL14, WL13b, XL17, dLG01]. **Robustification** [FG95, KB08]. **Robustifying** [JHL09]. **Robustness** [Hsi99, LS97, LL11]. **ROC** [TZ12]. **RODEO** [Sam15]. **Role** [OC01, STM15]. **Root** [OR99]. **Root-** [OR99]. **Roots** [AAN17, Gri99]. **ROPE** [KKS17]. **Rotated** [JU00]. **Rotation** [Par05, RB02]. **Rotational** [SJH<sup>+</sup>15]. **Roughening** [SL99]. **Roughness** [SBR10]. **Routine** [WCDS03]. **Rubin** [Gel17]. **Ruin** [CJS92]. **Rule** [GF16, SD03]. **Rules** [LB15]. **Run** [CS93]. **Runs** [ZHJ16]. **S** [Tuk93a, BHS00, CCS03, HB92, Ho06, NS94, TCCSB10, MMGG16]. **s-CorrPlot** [MMGG16]. **S-Estimation** [TCCSB10]. **S-Net** [CCS03]. **S-Paths** [Ho06]. **S-Plus** [BHS00]. **Saddlepoint** [ZBY09]. **Sage** [LCL22]. **Same** [XMY13]. **Sample** [AAN17, BO05, CGJ09, GB00, KTS17, Kwo98, Mey18, SS12, SLR16, TAS<sup>+</sup>17, ZB10]. **Sampler** [HMJ11, Hob01b, HSC18, KKLN20, KM15, Lia98, LFT17, Owe17, RS01, WRT21]. **Samplers** [CS93, HJ09, Pvd09, VS17, VJ15]. **Samples** [BVZ20, CR98, GMP04, HM15, Mül99, Pan99a]. **Sampling** [ABG<sup>+</sup>21, ACG14, Béd08, BR02, CS98, CC18, CGL11, CYS09, DW01, DBS06, EC17, FW13, FQH16, GM20, GT11, HHL19, HC98, HPZ21, HM16, HB98, Ion08, JP96, KA13, LGS09, Lee07, LSV<sup>+</sup>09, LL10, Lum19, MMN<sup>+</sup>13, MS02, MDS20, NP01, NM98, Nea00, NL04, Oeh98, OKL21, PP96, Par01, SC92, SK21, SG20, SNB<sup>+</sup>01, SRE06, SC19, TH09, TDH15, Tan17, TGHL14, Tuc08, WLZD11, YLCR19, ZBB06, ZR21, ZNR21]. **Sampling-Based** [OKL21]. **Sandwich** [Sha14]. **Satellite** [HCG02]. **Satellites** [KB99]. **Satisfying** [MS93a]. **Scagnostics** [WW08]. **Scalability** [EK02]. **Scalable** [BBW20, CDM<sup>+</sup>20, FNGW20, GAS20,

KSSL21, NMD<sup>+</sup>20, PMI20, RSKZ19, SBM22, SMN15, TFS20, XD20]. **Scalar** [GPGMFB14, GHC14, RMWH17]. **Scalar-on-Function** [RMWH17]. **Scalar-on-Image** [GHC14]. **Scalars** [KB20]. **Scale** [GMC02, Gv97, HAC<sup>+</sup>12, HYL<sup>+</sup>17, KLR18, LMST18, LWLY17, LVH17, MS18a, OM19, PHK14, RAM19, STZM09, UKZ18, YLW17, ZLR18]. **Scale-Space** [PHK14]. **Scale-Usage** [HAC<sup>+</sup>12]. **Scaling** [BSL<sup>+</sup>08, CMG21, HSM09, HLB<sup>+</sup>21, MY94, Par18, RB02, RMH21, ST19, XGH11, XGT15]. **Scan** [DKH06, NP01, PTP03]. **Scanning** [SSMN16]. **Scatter** [HRV12]. **Scatterplot** [DS00, MMGG16]. **Scatterplots** [ET99b, EH05, Tre95, ET99a, McC99]. **Scenarios** [DW02]. **Schedules** [WCH20a]. **Schemes** [BK05, NL04, SNB<sup>+</sup>01]. **Science** [BW17, Don17, FS99, Hic17, HV17, MC17, MHB17, Pen17, Zhe17, HJ17]. **Scientific** [Bri94]. **Scope** [GI00b]. **Score** [FBG06, NFM16]. **Screening** [LP14, XL17, ZCO15]. **SDE** [Pic14]. **Sea** [PRS11]. **Search** [Kar21, MM09, MR16, Ros93, SC08, TK99, WR93]. **Seasonal** [McE22]. **Second** [CTW20, Fea04, MM20, SQ07]. **Second-Order** [CTW20, Fea04, MM20, SQ07]. **Section** [BKM99, ES96]. **Sections** [GG20, FB94]. **Secure** [KLSR05]. **Seemingly** [HDM02]. **Segment** [CSY00]. **Segmentation** [BCDL17, Joh13, NST12, QS09, YK01]. **Seidel** [GRM09]. **Seismology** [Bri94]. **Select** [ES02]. **Selecting** [GKZ10, Rup02]. **Selection** [AB21, All13, AGV12, BBW20, BFM18, BHK15, BGP03, BMW17, CTC09, CDM<sup>+</sup>20, CHH10, CZSL10, CL12, CCYW16, CGLW21, CS14, CHSR19, CGJ09, CGL11, DS21, DRG19, EHW03, FK16, FS18, FN16, GD21, GTZH16, GHC14, GB12, HPOL14, HM09, HM11, HK22, HM15, HY17, HML18, HRM02, HHKS11, HHTB10, Hur00, JS13, JBJ<sup>+</sup>22, Jör09, KO04, KCF21, LGS09, LGS13, LL12, LD21, LPJ13, LW07, LQ19, MBM18, MD13, NY14, NG04, NL04, OPV22, Pan99a, PM20, ROY20, RL14, SM19, SG20, SLL22, SBZ13, ST99, SMK15, SHFT18, Su15, TVZ<sup>+</sup>22, TRWB16, TSG92, TRS97, Tüc08, Wil00, XD20, XZ12, YPPM21, YKW03, ZHZ12]. **Selectivity** [LG03]. **Selector** [MMRMGMGC08]. **Self** [CH16, CH93, HSC18, MM97, Tar99, XGTB18]. **Self-Consistency** [Tar99]. **Self-Exciting** [CH16]. **Self-Multiset** [HSC18]. **Self-Organizing** [MM97]. **Self-Reported** [XGTB18]. **Self-Similarity** [CH93]. **Semi** [BCH09, BFE<sup>+</sup>03, CS20, CM08, DZ99, Gué03, KT03, SBJ17, TFS20]. **Semi-Adaptive** [DZ99]. **Semi-Integrated** [SBJ17]. **Semi-Markov** [Gué03, TFS20]. **Semi-Streaming** [BFE<sup>+</sup>03]. **Semi-Supervised** [CM08]. **Semi-Varying** [CS20]. **Semidefinite** [WYZ19, ZRL14]. **SEMIFAR** [BF02]. **Semiparametric** [AG05, Bil00, BBvdW16, CKNK06, CHH10, CG07, CGJ09, Dan12, ERPG11, Guh08, HJ04, Len03, LG92, LBW14, MQ17, OR99, PM20, PTP03, SMS<sup>+</sup>14, ST99, SM13, SL10, TZ12, TAS<sup>+</sup>17, WK09, ZRL14, ZL16, ZDM20]. **Semismooth** [YH17]. **Semisupervised** [Cul13]. **Sensing** [BFE<sup>+</sup>03]. **Sensitive** [LZ18, Wan13]. **Sensitivity** [CCHS08, MY94, VG01]. **Separability** [LL12, Tre95]. **Separable** [MMZ22]. **Separation** [Ish99, TZ12, ZKS18]. **Sequence** [Hob08, MW04]. **Sequences** [Gué03, QN00, QM04]. **Sequencing** [Wan20]. **Sequential** [BK03b, DBS06, DMP14, FKH07, GF16, GP11, HT17, HS08, KCSA20, LJV<sup>+</sup>17, MDC17, WDB96, WBW21, YSDJ15, ZNYJ14, ZJA16]. **Sequentially** [WC06]. **Seriation** [EH15]. **Series** [BCL94, BM99, BH02, CH09, CCH16, CD14, Dan97, DGW09, Fea05, FCL10,



GVBM04, Gri99, HMP96, LRFK21, LMS19, MVR02, NYC15, OBGC21, PVH05, PSY09, QGL09, SBE17, SH17, ZHJ16, Ano07a]. **Set** [AG18, Kle04]. **Sets** [Coz99, HMPP19, SK10, SH00, UHHS96, Weg95]. **Setting** [CM08, IL16]. **Settings** [Spa05]. **Setup** [PKH15]. **Several** [BC93, HVRA96, LH95, SG05, WYZ19, YT99, Tuk93a]. **SFO** [Wic11a]. **Shadings** [ZMH07]. **Shadow** [LLM09]. **SHAH** [FT16]. **Shall** [KB99]. **Shape** [BB06, FIK19, GM99, GM93, Kle06, KW10, Mil19, NGH17, PA14, PWPS97, UK18, FT16]. **SHape-Adaptive** [FT16]. **Shape-Constrained** [PA14]. **Shaped** [DKH06, DCT08]. **Shared** [NJM20]. **Sharpening** [BH01]. **Shift** [Cai99, HB16]. **Shingo** [FB94]. **Shocks** [SG05]. **Shorth** [EGS10]. **Shotgun** [MR16, SC19]. **Shrinkage** [DXL12, DV04, Efr05, Gao98, JWB13, JT21, LT98, LHL03, RRG<sup>+</sup>21, WP13, ZL16]. **Shrinking** [YT21b]. **Shuffled** [SDBD21]. **Sign** [DJ04]. **Signal** [Hoe10, JYYZ18, TG10]. **Signals** [HCZMH21]. **Signature** [FCL10]. **Significance** [BRMC19, GW04, GMC02, HLYM15, Jör09]. **Signs** [VH15]. **Similar** [KK00]. **Similarity** [CH93, MBS04]. **Simple** [Bak92b, CJ02, RTL07, SSP<sup>+</sup>18, Bak92a]. **Simplified** [JU00]. **Simulated** [Glu00, Glu04, IP04, JB03, Sin02, SY07]. **Simulating** [Hes98, KKLN20, LD06, MM10, Whi01]. **Simulation** [BMR15, BGL18, Bre04, BK05, Bro06, CP18, EM07, EM00, FHIT20, Gel95, GR99, GŠP<sup>+</sup>06, GW11, GHW02, Guh08, Hof09, HHH12, JHD21, KGM18, LYG<sup>+</sup>10, Len09, LJZD05, MA19, MHD20, RFVJ21, SHL12, Ste02, Ste12, Vie00, WC94, dLG01]. **Simulation-Based** [HHH12, LJZD05, SHL12, dLG01]. **Simulation/Prediction** [MA19]. **Simulations** [AR06, BG98, FBG06, Hes95, ILP19, LZ18, Šev04]. **Simultaneous** [DRG19, GD16, Hel04, Hsu92, Jör09, Kwo98, LG03, LJZD05, RFVJ21, SHL19, YPPM21, ZSK19]. **Simultaneously** [DCV10]. **SinaPlot** [SSP<sup>+</sup>18]. **Sine** [VH15]. **Single** [FXC21, PVH05, SSP<sup>+</sup>18, SN10, YZ07, ZHZ12, ZHJ16]. **Single-** [ZHJ16]. **Single-Index** [PVH05, YZ07]. **Singular** [GPPVW17, GR08, HJNR19, YMB14, ZMSZ07]. **Size** [Kwo98]. **Sizer** [PLH10, HL06]. **Sizes** [GMF16, LFS<sup>+</sup>17]. **Skewed** [Mah17, MKK18]. **Skewness** [BHS04]. **Slab** [DRG19]. **Slack** [FLY21]. **Slice** [HOD22, LCV20, LL10, TGHL14, FW13]. **Sliced** [Wu08, WLM10, ZYKC08]. **Slings** [PRS11]. **Slope** [FML19, JBJ<sup>+</sup>22]. **Smale** [GRB<sup>+</sup>13]. **Small** [BO05, FRW05, HY17, Pan99a, WK17]. **Small-** [HY17]. **SMC** [ER21]. **Smooth** [EM02, GHC14, HY19, Kab93, KK09, PNLL21, TL07, ZW07]. **Smooth-Backfitting** [HY19]. **Smoothed** [KLH05]. **Smooter** [CGH17, Kit96, MB18, SHMD<sup>+</sup>14]. **Smoothers** [Gra96, Hel21]. **Smoothing** [BM99, Che07a, DS94, DS03, EH05, EHW03, FHTG05, GW93, HPA14, HM15, IJ02, LX16, LTW07, NST12, OLN11a, OLN11b, PRHP14, QG06, RH94, SAT04, SL99, WL08, WK09, XW18]. **Smoothness** [BK20]. **Social** [Eve12, HKS12, JL13]. **Soft** [HLYM15, SSL<sup>+</sup>16]. **Software** [BB03, Cha00, CGR06, Gra07, HK17, KY95, Mar96, Saw96]. **Solution** [PI10, SWZ14]. **Solving** [Kat10, LF16, Paa99, Yen20]. **Some** [CKR19, CK08, LFZ97, SS11, Wai93, WM03, Wic13, ZL10]. **Sourced** [CCHM18]. **Sources** [GY07, PMI20]. **Space** [CLHW19, CH99, DZZ06, EM18, GMC02, HLP07, HK98, Kit96, KC20, MMF<sup>+</sup>19, MHS11, NFM16, NW10, PHK14, QG06, RNHY12, Smi01, ZW07]. **Space-Filling** [CLHW19]. **Space-Time** [CH99, DZZ06].

**Spaces** [HK10, TRWB16]. **Sparse** [CCYW16, CZZ15, DZZ16, DXL12, DR10, DS94, FXC21, GTZH16, GJL<sup>+</sup>10, Hel21, JAJ19, LAML19, LW09, LS04, LSH16, LCWW17, LWZ14, LBCG16, MJVB18, MDC17, MC18, NT17, PP09, QLCZ15, RLZ10, SLBV18, SSBW17, SFHT13, TDM12, TW14, WL09, WZ16, WZSF18, WL13b, YMB14, ZHT06]. **Sparse-Group** [LAML19, SFHT13]. **Sparsity** [GDM14, GH20, KYW19, KKB21, LWLY17]. **Sparsity-Inducing** [GH20]. **Spatial** [Ano12b, BCST13, BS19, BM19, Cai99, CR99, CHH10, CRS06, Cui05, CM13, DG14, DKH06, ESR<sup>+</sup>14, ES02, FM10, FGN06, GHC14, GH18, HHC03, HC07, HCB04, HO99, HCG02, HHTB10, HS18, IP04, KSM14, KKB21, LCRG21, Lia07, LGL16, LA12, MK20, Mah17, MP16, MLP07, Moc98, MRCM18, NBH<sup>+</sup>15, OW97, OM19, PTP03, RS19, RT21, RRG<sup>+</sup>21, SLR21, SHMD<sup>+</sup>14, SG17, Smi05, Ste92, SS16, WR05, WH17, YS10, Zha03, ZZ08, ZY05, ZW10, ZH17]. **Spatial-Temporal** [ZZ08]. **Spatially** [Ano08a, BMC05, BS19, CRC<sup>+</sup>07, GRM09, GAZ15, HCZMH21, KW21, RIC<sup>+</sup>16, SLR21]. **Spatio** [CSK10, HHT21, JK21, MM20]. **Spatio-Temporal** [CSK10, HHT21, JK21, MM20]. **Spatiotemporal** [VF09]. **SPDE** [BK20, LGL16]. **Speaks** [RHS<sup>+</sup>04]. **Spearman** [VT94]. **Special** [BKM99, Buj00, ES96, Edi00]. **Species** [ACG14]. **Specific** [Hes95, PP07, SH17, XNN16]. **Specified** [DZZ06, Vie00]. **Spectra** [ES19, KTS17, Whi01]. **Spectra-Based** [ES19]. **Spectral** [BPW93, CRL13, DZ99, FM10, Hof19, LRFK21, YPPM21, vDE19]. **Spectrally** [Hel21]. **Spectroscopic** [SS12]. **Speech** [BMO01]. **Speeding** [QTVK18]. **SPEW** [GRVE18]. **Sphere** [GM20, MR10]. **Spheres** [YLM17]. **Spherical** [CZ02, LFZ97, ZKS18]. **Spherical-Radial** [CZ02]. **Spike** [DRG19]. **Spike-and-Slab** [DRG19]. **Spikes** [LS04]. **Spline** [DS03, ERPG11, EHW03, GW93, HM15, KCO09, Koo97, LX16, LTW07, QG06, RH94, Wan08, WL08, WK09, XW18]. **Splines** [Ano08a, AGV12, BMC05, Bil00, BHK15, CRC<sup>+</sup>07, KCK08, LB04, Lin99, LGL16, MS03, PA14, Pit02, Rup02, SL10, SW18, TCCSB10, Zha97]. **Split** [JN04, LACRM06]. **Split-Merge** [JN04]. **Split-Plot** [LACRM06]. **Splitting** [CL15, TRS97, Yen20]. **Spotted** [QS09]. **Spread** [McL99]. **Spread-Location** [McL99]. **SpreadPlots** [YVMFB03]. **Spreadsheets** [GPR99]. **Square** [SPV22, ZLW21]. **Squares** [CHW12, DG05, HB92, HGK10, LP07, Paa99]. **SR** [RIC<sup>+</sup>16]. **SR-HARDI** [RIC<sup>+</sup>16]. **Stability** [Hob01b, LY16, PRHS18]. **Stable** [CHG16, CMG21, CDFB11, FW13, HM15, LW19, LFT17, MA19, Mar10, WH98, WY15]. **Stage** [ACCQ19, JB03]. **Stat** [Tie00]. **State** [HK98, Kit96, KC20, MMF<sup>+</sup>19, NFM16, NW10, QG06, Sco99, SG20, Smi01, ZW07]. **State-Dependent** [SG20]. **State-Space** [HK98, NFM16, NW10, Smi01]. **Statement** [Ano13g]. **Statements** [Hel04]. **States** [SLL22]. **Stationary** [CMG21, CP18, HPA14, HKP16, MW96, QGL09, SD03, Whi01, WC94, ZKS22]. **Statist** [Bak92a]. **Statistic** [BM19, FBG06, Kou14, NP01]. **Statistical** [ABvS09, Cha00, CKT21, CKR19, Cle93a, Cle93b, Dri08, EFLT94, Fie12, FF94, FCL10, GU13a, GI00b, GL07, GKBP15, HIT99, Hob08, Hol93, HO99, HLYM15, HKS12, Hur93, IKL08, KP03, Lan00, LPS99, Lia07, Mic12, Mur13, PCP11, PRHS18, PGR15, PSTV15, RTL07, Saw96, Šev04, Ste13, SWC<sup>+</sup>10, Tre93, VC21, VH17, Wil93, Wil96, YL95, Zhe17, ZICT12, dVTP<sup>+</sup>17]. **Statistically** [Owe17, SS16]. **Statistician** [GF15]. **Statistics** [Ano06a, Ano07a, Ano08a, CC08, DKH06, ES02, Fea02,

GdTv96, HK17, Hub00, JO02, Lev12, Lev13b, LHC17, Mey03, OLN11a, RHS<sup>+</sup>04, Sta95, Ste95, Wat11, WDB96, Ano12b].

**Steck** [Hut02]. **Steinian** [NT17]. **Step** [CDFB11, GH21, GR12b, LFS<sup>+</sup>17, Lum19, MA19, Tad17]. **Stepwise** [FX21, XZ12].

**Stiefel** [JHD21]. **STIMA** [DCV10].

**Stimulus** [PAP22]. **Stochastic** [BCE20, CSY00, CTW20, CJS92, FCWM17, GJ09, Gol09, GM93, GX20, HB16, Jan06, JL13, KFSL17, KS99, MR16, NTVK12, RAM19, SC08, Sin02, XZ12, YMLY11, ZCS<sup>+</sup>19].

**Stochastically** [LKW09]. **Stock** [NAB16].

**Stopping** [GF16, SD03]. **Strategies** [CCS03, DBS06, JS20, LS05, RW14, SY02, SNR17, YK09, YL95]. **Strategy** [HR11, TL92, YM11b].

**Stratification** [PMB12]. **Stratified** [MPS92]. **Straw** [DS21]. **Stream** [CCS03, Rho03, ZH17].

**Streaming** [BFE<sup>+</sup>03, MDD<sup>+</sup>12, THSM<sup>+</sup>20, WM03].

**Streams** [CCS03, DH03a]. **Street** [LHC17].

**Strength** [TW05]. **Stress** [LPPT17].

**Strong** [HWS16, JP96, LB15]. **Structural** [Che07b, MVR14, SBM22].

**Structure** [BQS94, CL12, Far99, Gra13, HWQ15, IP04, LH15a, MVR14, MH17, OM19, ONS18, OFR<sup>+</sup>18, SBE17, WCH20b].

**Structured** [BT18, DXL12, EC14, HHC03, KYW19, LWLY17, SH18, SHC00, ZY05].

**Structures** [DY09, EM18, EM02, GR93, HL06, LH15c, VHSG20, WL09, dVTP<sup>+</sup>17].

**Student** [TEG19, Tsi02]. **Student-** [Tsi02].

**Studies** [BVZ20, KSR19, Ros12, Ros17, SWC<sup>+</sup>10, ZDM20].

**Study** [HK17, MM10, MK92, SSL<sup>+</sup>16, WM03, YT99].

**Studying** [Cle93a, Cle93b, Hol93, SPW95, Tre93, Wil93].

**Sub** [Gou98]. **Sub-Families** [Gou98]. **Subchains** [Hob01b].

**Subgraph** [MOPW20].

**Subgraphs** [ZC15]. **Subject** [BH01, CCHM18].

**Subordination** [BMG16]. **Subpixel** [GJ97].

**Subregion** [GK97]. **Subregion-Adaptive** [GK97].

**Subsampling** [Bra21, GVDP99, JP95, MXM<sup>+</sup>21, QTVK18, QTV<sup>+</sup>21].

**Subset** [BG92, GK06, Ros12, SSMN16, Wil00].

**Subsets** [NJM20]. **Subspace** [GR12a, PSY09].

**Subspaces** [WBW21].

**Substitution** [Hob08, OSR<sup>+</sup>18, SC92].

**Subtle** [Su15]. **Successive** [SC92].

**Suffer** [PRS11]. **Sufficiency** [HR11, YM11b].

**Sufficient** [Fea02, HY17, JO02, SY16, XY14].

**suggested** [Tuk93a].

**Sum** [LW19, LJ19].

**Summarization** [WCM21].

**Summary** [BM19, GMF16].

**Sums** [WK17].

**Sunbeams** [FW11].

**Superheat** [BY18].

**Supervised** [CTDKL21, CM08, LCKL05, LSH16, PRHS18, dSCL21].

**Support** [BL04, GTZH16, LSD05, LY11, SWZ14, SC98, TZ06, WZW19, WCH20b, WL13b, ZLWZ16].

**Surface** [CDP04, Fea04, SWZ14].

**Surfaces** [DS03, OW97, QY97, Qiu02, Ste02, SQ07].

**Surrogate** [CWZ21, Gel00, GH00, HL00b, Kie00, LHY00, Men00, Wu00, dLM00].

**Surrogates** [Dri08].

**Survival** [Ano20, DASR08, DMR20, DH03b, Gu15, HYL<sup>+</sup>17, Koo98, LRBS03, LKW09, LH00, TGP03, WW19, WCSY21, XGTB18, ZCI<sup>+</sup>17].

**Swendsen** [BZ07, NG04].

**Switching** [LF16, PI10, RW14].

**Symbolic** [LRB12].

**Symbols** [Rob19, Tre95].

**Symmetric** [Cai99, Ho06].

**Symmetry** [BCH05, GM15, LFZ97].

**Symmetry-Constrained** [GM15].

**Synthesis** [HPA14, HKP16, MW96].

**Synthetic** [ASND19, FD21, GRVE18, PDLN18, PSF<sup>+</sup>22].

**System** [CCS03, Rap01, Tre06, ZLW21, SCB98].

**Systems** [Buj00, ES96, Edi00, GŠP<sup>+</sup>06, Mar96, MDD<sup>+</sup>12, WBQ20].

**Table** [Paa99]. **Table-Driven** [Paa99].

**Tables** [Bri11, Che07b, EC17, Fis12, Fri00, FK11, Gel11a, Gel11b, HVRA96, HM02, LH95, LPM98, Sta95, Wai11, Wil11, ZBY09, VT94].

**Tail** [Dia99, Hes95, Hsi99, WK17, dSM04].

**Tail-Specific** [Hes95]. **Tailed** [Mah17]. **Take** [PRS11]. **Tale** [Wic11a]. **Tapered** [DASR08, SR12]. **Tapering** [AHNC13, Ano12b, FGN06]. **Tapers** [Ste13]. **TARGET** [FG05]. **Targets** [SGH17]. **Taylor** [Sin02]. **Teach** [Zhe17]. **Teaching** [Zhe17]. **Technique** [ACCK19, BCL94, JU00, JTu03, SPW95, TG10]. **Techniques** [Kei96, RB02, WM03]. **Technology** [WS02a, GdTv96]. **Telephone** [Mci99]. **Tempering** [MMV13]. **Temporal** [CSK10, GHCU22, HHT21, JK21, MM20, THSM<sup>+</sup>20, WCH20b, ZZ08]. **Tensor** [CKT21, HLW22, Loc18, MPS17, MMZ22, PAP22, VLNO18]. **Tensor-on-Tensor** [Loc18]. **Tensor-Valued** [VLNO18]. **Tent** [Bw17]. **Terminating** [Tu94]. **Terrace** [MGL18]. **Terry** [CD12]. **Test** [DG14, DW02, FKH07, FSR20, GPGMFB14, HM14, KN06, LFZ97, SPV22, SLR16, TVZ<sup>+</sup>22, TSG92, WWG<sup>+</sup>97, VT94]. **Test-Based** [TSG92]. **Testing** [AvD20, BMG16, Bie05, BJG98, GCKP08, GH20, HC07, LP07, MOPW20, SSS07, TAS<sup>+</sup>17, VH17]. **Tests** [AR06, BRMC19, Can99, DJ04, FKH07, Gri99, HVRA96, HB98, MPS92, MH17, WLWM16]. **Text** [CH93, Eic94]. **Thank** [XMY13]. **Their** [LS93, LB15]. **Them** [PRS11]. **Theoretic** [GKZ10]. **Theoretical** [GR12b, JS95]. **Theory** [AR06, CKR19, Jör09]. **There** [SYF17]. **Thinning** [Owe17]. **Thomson** [BPW93]. **Three** [BB06, BW17, EO95, FSMV02, LACRM06, MM14]. **Three-Dimensional** [BB06, EO95, FSMV02, LACRM06, MM14]. **ThrEEBoost** [BMW17]. **Threshold** [Fon19, SM19]. **Thresholded** [BMW17]. **Thresholding** [CKR19, EH09, HLYM15, ZL16]. **Thyself** [GF15]. **Tidy** [WCH20b]. **Tilted** [LP14]. **Time** [Ano07a, BCL94, BM99, BH02, BHS00, CMN21, CHW12, CH09, CCH16, CH99, CD14, DZZ06, Dan97, DGW09, EM18, Fea05, FCL10, GVBM04, Gri99, HMP96, HMW06, HYL<sup>+</sup>17, HCK<sup>+</sup>11, KK09, KLH05, LRFK21, LG20, LMS19, LBW14, MA19, MVR02, MDD<sup>+</sup>12, NYC15, OBGC21, PSY09, QGL09, SBE17, SH17, YP20, YL99, YLM17, ZHJ16, ZW07, vDE19]. **Time-Dynamic** [HMW06]. **Time-Frequency** [QGL09]. **Time-of-Day** [YL99]. **Time-Varying** [CHW12, HYL<sup>+</sup>17, LG20, YP20, ZW07, vDE19]. **Time-Warped** [YLM17]. **Times** [AvD20, BK05, Lev11, Tu94]. **'tis** [PRS11]. **Tool** [DPS11, HH11, HH01, MD13, MS93b, OM19, WZLR21, YKZ18]. **Toolkit** [SRL<sup>+</sup>00]. **Tools** [CH12, GEGM03, Pos95]. **Topic** [MJVB18]. **Topics** [CD19]. **Topological** [BM19, MGL18]. **Torgegram** [ZH17]. **Total** [BDR97, SM19, YT21a, YNTK21]. **Tour** [CBCH95, LCV20]. **Tours** [HO10]. **Trace** [ACJ21, Fri13b, Mul98]. **Tracking** [HMW06, YSK<sup>+</sup>10]. **trackr** [BML19]. **Tradeoffs** [GU13b]. **Traffic** [EO95, Wic11a]. **Trained** [Cul13]. **Training** [BMO01]. **Trajectories** [ZKS18]. **Transdimensional** [LGS09]. **Transfer** [Gel00, GH00, HL00b, Kie00, LHY00, Men00, Wu00, dLM00]. **Transform** [Bau19, Big06, HCB04, NS94]. **Transformation** [DT13, GW18, HRM02, HZ21, HDK<sup>+</sup>20, KS08, MHH15, NLF<sup>+</sup>06, SLMN20, YT21b, YZ06]. **Transformations** [PSF<sup>+</sup>22, RA01]. **Transformed** [ES98, MHS11]. **transforming** [TYG<sup>+</sup>20]. **Transition** [HK22, ZKS22]. **Transport** [OKL21]. **Transposable** [TW14]. **Treatment** [DZFZ18, LSFI18]. **Treatments** [BVZ20]. **Tree** [BT18, CS20, CGR17, DCV10, EC14, EH09, FG05, HMJ11, JMY<sup>+</sup>16, KCB19, MW97, MS93b, NBNA21, SSB<sup>+</sup>14, SN10, VHSG20, WS02b, WB18b, ZY05]. **Tree-Based** [CS20, DCV10, EH09, VHSG20]. **Tree-Structured** [BT18, EC14, ZY05]. **Treed** [AG96, STY06]. **Trees**

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TSG92, TW05, XSC19, YF14, vdWvNR21].  
**Validations** [YK09]. **Validity** [WW12].  
**Value** [BCH05, BR02, HWK17, Hof19, HJNR19, YMB14, ZMSZ07, HB98]. **Valued** [BVZ20, CP18, LRB12, LD21, MR19, VLNO18, WK17]. **Values** [HGK10, LKB21, NP01, SY02, UHHS96].  
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**Variational** [BBvdW16, HWO<sup>+</sup>17, KDM16, LMS19, MPR<sup>+</sup>12, NTVK12, ONS18, OW12, OPV22, SLMN20, TN14a, TF20a, TNKK16, TNK17, WM19, ZZW21, ZGTG21].  
**Variations** [DM09, YT21a]. **Variogram** [Zha03, ZW04]. **Variography** [ZH17].  
**Various** [HO99]. **VARMA** [McE22].  
**Varying** [AGV12, BS19, CHW12, CS20, DXL12, GRM09, HYL<sup>+</sup>17, JL13, KW21, LG20, SBR10, WH14, YP20, ZW07, vDE19].  
**Varying-Coefficient** [AGV12, DXL12, WH14]. **Vector** [Bra02, DZZ16, GTZH16, LSD05, LY11, SWZ14, TZ06, WZW19, WL13b, ZLWZ16, ZH05].  
**Vectors** [AG18, BMO01]. **Verification** [Len03]. **Versus** [Fu98, GBW17, Sin02].  
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**Video** [RRH18]. **View** [BM19]. **Views** [Fri99, GM16, Hur00, FB94]. **Vines** [MC18].  
**Visual** [BCS96a, EK02, EFLT94, GMF16, GB04, HH11, Hof01, Mar94, PAP22, Tre95, WS02a, YL95]. **Visualization** [BCS96b, BSL<sup>+</sup>08, DG18, DGW09, EH15, FNGW20, HMPP19, HDK<sup>+</sup>20, HOD22, Kei96, Kle04, Kle06, LCL22, LK02, LRB12, LWM21, McL99, MS93b, Mou09, MHS11, MW04, MM97, Ooi02, SH18, SNB<sup>+</sup>01, SPW95, SRL<sup>+</sup>00, SCB98, TS13, WNA20, Wil99, XW20, YKZ18, ZMSZ07].  
**Visualizations** [BML19, Hur04, LTW<sup>+</sup>10].  
**Visualize** [DPS11]. **Visualizing** [BY18, BM99, BEM13, ES19, Fri13b, GRG10, GKBP15, GW15, GHCU22, HBG96, LA12, RFVJ21, SJ05, TL99, Tro05, WCH20a, WL02, Wic11c, ZMH07]. **Visuals** [Goo11]. **Volatility** [Gol09, KFSL17, NST12, SM13]. **Volume** [Ano92g, Ano93f, Ano94g, Ano95f, Ano96h, Ano97f, Ano98f, Ano00g, Ano08c, Ano09b, Ano10b, Ano11b, Lev11, Lev12, Lev13b, WR93]. **Voyage** [Saw96].  
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