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Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

19 May 2021
Version 1.20

Title word cross-reference

$1 \leq r \leq \infty$ [GN11]. $_L$ [ZFY11]. A [SFSL18]. β [MMS18, RPF13]. D [SH15]. ℓ_0 [FG18a, vdGB13]. ℓ_1 [JKNP12, BC11a, RWL10]. F [HPZ16]. g [MG11]. k [BSY19, BCR10, GKM16]. L^r [GN11]. L_1 [HPŠ10a, WXX18]. L_2 [EI12]. L_∞ [DKL12]. l_p [LZ11]. L_q [FY10]. M [CH10, DN11, EKS12, Loh17, SO18, WZ18, ZBFL18]. n [CW12, Por12]. P [EJ10, CW12, HBZO19, RBWJ19]. Q [DRZ12, LR14]. s [CLSY18, HW16a]. T [DMS12, DMS13a, DMG15]. T^2 [LS13]. U [Che18, LLBM+11]. V [Zho14b]. $\|\cdot\|_2^2$ [JN18]. z [BCCW18].

-aggregation [DRZ12, LR14]. **-concave** [HW16a]. **-distance** [WXX18]. **-error** [DKL12]. **-estimation** [BCCW18, CH10, SO18, WZ18, ZBFL18]. **-estimator** [EKS12]. **-estimators** [Loh17]. **-filter** [RBWJ19]. **-learning** [SFSL18]. **-likelihood** [FY10]. **-loss** [JN18]. **-metrics** [GN11]. **-model** [MMS18, RPF13]. **-nearest** [BSY19, BCR10, GKM16]. **-optimal**

[DMS12, DMS13a, DMG15, SH15]. **-penalized** [BC11a, FG18a, vdGB13]. **-prior** [MG11]. **-processes** [LLBM+11]. **-regularized** [RWL10]. **-sample** [CLSY18]. **-statistic** [LS13]. **-statistics** [Che18, Zho14b]. **-theorem** [DN11]. **-value** [HBZO19]. **-values** [EJ10].

1/64 [Pho12]. **1D** [SGA11].

2010 [Ste11]. **2850-2876** [BGvZ21].

34 [Fuh10, Jen10].

abundant [CFR12]. **accelerated** [LJ18]. **accounting** [PP14]. **Accuracy** [CG18, JKNP12]. **Accurate** [HQ11]. **achieve** [Dic11]. **acting** [DKZ13]. **Active** [HSRW19, NJ13, Han11]. **activity** [ASJ11, Bul16, Tod15, Tod17]. **acyclic** [CMKR12, ER14, HJY13, KMH14, vdGB13]. **Adaptation** [KGS18, PR16, GZ16a, Lep13]. **Adaptive** [Arm15, BW19b, CY12, CLX13, CGW18, CV19a, CL13b, CJ12, FFB14, FLRB13, GMZ17, JMR14, LS14, Lep15, LMP18, Ray17, RBS10, Str18, TZ19a, Tib14, Ver10, dJvZ10, AGR18, AZ12, Atc11, BCDD14, Bul13, CMW13, CLZ16, Cas15, CC18a, CCK14a, CCTV18, DGL19, EL10, FMP11, Gho15, GRSP15, GL11, HWH13a, HWH13b, HMV13, HN11, HRSH15, HH12, KX14, LW19, LM15, MP17, Nic15, PR19, Rou10, Rou15, Ste15, SC16, SvdVvZ15a, SvdVvZ15b, TBK12, TLT16, WCT11, ZPH15, ZH10]. **Adaptive-to-model** [TZ19a]. **adaptivity** [CG17]. **Addendum** [KMH14]. **Additive** [ST19, BPE14, FJR15, HP18, HHW10, JFF10, LMP10, LMP12a, LLLH18, Ma12, MCLX15, RBM19, SW16a, TZ19b, WLLC11, WXQL14, YZ16, ZL11a]. **Adjusted** [LC10, AGR18, DHZ16, JW10, ZBFL18]. **adjustment** [SB10, WZHO17]. **affine** [Bel18a, DS12]. **after** [TRTW18]. **against** [CEL16, CPV17, MMY18]. **aggregate** [DGP18]. **Aggregation** [GRSP15, Bel18a, DRZ12, DS12, LR14, Rig12]. **agnostic** [KP19, LV15]. **AIC** [BCF18a]. **Albert** [QH19]. **Algorithm** [ZLZ18, BWY17, CMZ19, GRD13, JWJW18, JG12, JG13, KRS15, QH19, Yu10]. **algorithmic** [FLSZ18, Lop19]. **algorithms** [BCDD14, DR11, DMJ13, FMP11, KH11, Lia10, STRR15]. **aliasing** [CCC19]. **aligned** [CW15]. **allocation** [CGM+13, Kau18, MP17]. **almost** [LPK17]. **almost-** [LPK17]. **alternative** [ZCX13]. **alternatives** [ACCP11, CEL16, CPV17, EH19b, MMY18]. **Amplitude** [PZ16]. **analyses** [Røy12]. **analysis** [Bac11, BFT13, BL12, BCF18a, BWY17, BCR10, BJV17, BFR19, BMBM15, BD11, CEL16, CGY18, CLLW15, DM18, DP19, DP18, FLW16, GMRZ15, JW10, JLP+16, JLX17, Kat13, KLZ16, KS11, KMS12, LH10b, LJ10, LMY18, LY19, Ma13, Mül16, NC10, Nye11, PT13, Pen18, PM16a, QP16, QH19, RBS10, RH12, SY12, SWDW11, SC12, TS12, Wan11, WMZ18, WW18, Zhu17]. **analytic** [KH11]. **angular** [ZYL18]. **Anisotropic** [BPD14, Lep15, Str18].

Ann [BGvZ21, Fuh10, Jen10]. **anomalous** [ACCD11]. **ANOVA** [ACCP11, CZ10, CLZ19a]. **Answer** [Jia13]. **Anti** [CCK14a]. **Anti-concentration** [CCK14a]. **application** [BLPZ15, BBFGD12, DN11, EH19a, HS17, HLLZ19, HKKM10, Koi19, LSST16, LMY18, LS10, MDO14, NC10, PR16, Pho12, RBS10, RV11, WY17, ZPMX11]. **applications** [BB18a, BQS18, CJ11, CZ18, CTP19, CV19b, CI11, CL13a, CQ10, Che18, CD17, DE17, DSS11, FSZ18, God18, GZ16b, HJY16, KR11b, LS13, TPN19, ZHCC11, ZBY15, Zho14b, ZBFL18]. **applied** [DH12a]. **approach** [AcL17, BBTW11, BG10, CCG16, CC18b, CHZ11, DKZ17, DW19a, DP18, FLRB13, HW16b, HL13, JP13, KPS17, KX14, Lep13, Lep15, MZZ+19, Pho12, Sch13, VS19, Yen11, YC10, ZPMX11, ZYFW14]. **approaches** [BD11]. **Approximate** [BO17, DGH+19, FG18a, CC11, FLM11, MMB17, MMB18]. **approximately** [KP19]. **Approximating** [WRM19]. **Approximation** [DSS11, HW16a, Nor10, BCCZ13, CCK14b, DB16, FH14a, HPWW11, HBZO19, Koi19, KL17, LLV16, Lia10, Por12, ZW17]. **approximations** [Bob19, Che18, CCK13, FR13, KR11b]. **arbitrary** [CL15a, EKS12]. **argument** [Jia13]. **arithmetic** [Pho12]. **ARMA** [LXQ16, VL18, ZL11c]. **ARMAX** [GH19]. **armed** [PR13]. **array** [HQ14, LKA10]. **array-valued** [LKA10]. **arrays** [GX14, HT14, HCT18, LPK17, OR10, OB13, STY14]. **arrival** [CLN19]. **article** [Ano10, Fuh10, Jen10]. **Assessing** [ZYL18]. **assessment** [CG18]. **assisted** [KJF14]. **associated** [LX12, RS17]. **association** [GCW19, JLP+16]. **assumption** [RWG19, URBY13]. **assumption-lean** [RWG19]. **assumptions** [HSRW19]. **asymmetric** [FZ13, GZ16b]. **Asymptotic** [Akr16, BM17, BCCZ13, BCFG11, CHI14, CGW15, CC19, DM12, EPFV18, GNZ10, HPWW11, HA13, HH12, KF11, KV10, LLBM+11, MH14, MMB11, Mei11, OMH13, OPP17, PJS10, QZ10, Rei11, RSZZ15, RS17, SH14, TA17, Wan13, WW18, XH12, Atc11, BF18, BGN18, LX12, Loh17, MDO14, NS11, PS18, RS12, SC13, SF19, TRTW18, YFG13]. **Asymptotically** [CEKL15, Fel12, CR13, SC16]. **Asymptotics** [LMNP15, SW10a, SBK16, WF17, YLZ16, BFFP19, CS15, CW19, DW18, DMJ13, HE18, Li14, ZS13]. **attack** [CHL17]. **augmentation** [KH11]. **auto** [LWY17]. **auto-covariance** [LWY17]. **autocorrelation** [HA13]. **autocovariance** [BB16b]. **autoregression** [ZPL+17]. **autoregressive** [GRSP15, KPP11, WLCY14, Zhu19]. **auxiliary** [Efr13]. **average** [YL11]. **averages** [DS11, JPV10]. **averaging** [AcL17, Lia10, ZL11a].

back [MC15]. **back-door** [MC15]. **Backfitting** [LMP10, LMP12a, HP18]. **Backward** [HE18]. **balance** [MR12]. **Balanced** [RW10b]. **balancing** [Zha19b]. **Ball** [PTWZ18, LM18]. **balls** [CCGB17]. **band** [WLCY14]. **bandedness** [QC12]. **bandit** [PR13, PRCS16]. **bands** [CCK14a, GN10, HH13, HN11, Jir12, PR19]. **Bandwidth** [CL15b, GL11, BPD14, CDH13, QC12, SW10a]. **barrier** [Men17]. **barriers**

[GMZ17, MW15]. **Barycentric** [Pen18]. **based** [AGR18, BB16a, BWY17, CY11, CGT16, CC17, CZ15b, Che19a, CAGPFBGM19, FH14a, HP10, HPV10, HQ14, IP11, LLL19, LPZZ12, MZZ+19, NHM18, NC10, OPP17, Røy12, SvdAW14, SSGF13, Ste15, TBK12, TA17, WB17, WXX18, WZ18, XZ18, XZ12, YFG13, YP15, YL11, ZDMD18]. **Batch** [FJ10]. **Batched** [PRCS16]. **Bayes** [BCFG11, BMW18, BD11, CN14, DP18, LM12d, MG11, MH11, MGC10, RS17, SB10, YL14]. **Bayes-optimality** [BCFG11]. **Bayesian** [Cas15, Gho15, LM15, Nic15, Rou15, SvdVvZ15b, Bac11, BFT13, BBFGD12, BPY19, BFR19, BD11, BD15, CKG19, Cas14, CSHvdV15, CC18b, DMG15, DP18, Eva18, GZ16a, HTX17, Jam17, Joh13, Kat13, Kau18, KPS17, KvdVvZ11, LG17, LJ10, MNP19, NH14, NS17, PBPD14, QH19, Roč18, RH12, RCL12, SvdVvZ15a, WM10, YH12, YD16, YWJ16, dJvZ10]. **be** [EW16]. **behavior** [BCF18b, PP14]. **behaviour** [BB16b, RS17]. **benefit** [HZ10]. **Berkson** [Sch13]. **Bernstein** [BK12, BG14, Bon11, CN13, CN14, CR15, HS17, Ray17, RR12]. **Bernstein-type** [HS17]. **Best** [BKM16, MM18]. **Betas** [Rou10]. **between** [DMS12, LZ17, SS13]. **beyond** [DS11, Jia13, ZW16]. **bi** [YLZ16]. **bi-degree** [YLZ16]. **Bias** [FdHM15]. **biased** [AZ12, CLSY18, CK15, MR10]. **BIC** [BCF18a]. **big** [BFR19]. **binary** [Fry14, MPL15, Wan11, Xu17]. **bivariate** [WZ12]. **Blackwellization** [DR11]. **blind** [BHM18]. **block** [AL18, CY12, CLX18, FdH15, GZ16a, GMZZ18, GLN18, JKNP12, LR15, Lei16, SR15, TPN19, WB17, ZZ16, ZLZ12]. **block-sparse** [JKNP12]. **blockmodel** [BRS19, RCY11]. **blockmodels** [BCCZ13, SB15]. **blocks** [God18]. **BLUE** [DPZ19]. **Blumenthal** [ASJ12]. **Board** [Ano16a, Ano16b, Ano17a, Ano16c]. **boosting** [FGM17, EI12]. **Bootstrap** [ABFRB15, CH10, SZ15, SW19, BB15, CL13b, Che16, Che18, CCK13, DGL19, FR13, FLRB13, GLN18, HH13, JP15, KP11, KPP11, Lop19, Pap18, PS18, RS12, SS11a, SBW10, TPN19, TRTW18]. **Bootstrapping** [RWG19]. **both** [XMW10]. **bottom** [Fry18]. **bottom-up** [Fry18]. **bouncy** [DBCD19]. **bound** [NS11]. **boundaries** [CLR17, KRS15, LG17]. **boundary** [TBK12]. **bounds** [ACL19, AGL14, Bel18a, BLT18, BJNP13, CZ18, CGM+13, CI11, CHI13, CGS15, JvdG18, KP19, Lev15, LN11, PS18, TS12]. **breakdown** [ZYL18]. **breaking** [Men17]. **Bridging** [ELL15]. **Brownian** [ASJ10]. **Buffet** [Jam17]. **bundled** [DN11].

calculations [RV11]. **calculus** [Hua10b, Jam17]. **Calibrating** [WKL13]. **calibration** [TW15]. **CAM** [BPE14, PV17]. **can** [EW16]. **Canonical** [BHPZ19, GMRZ15, YP15]. **Carlo** [Atc11, BDD10, CDO11, FJ10, FMP11, GRD13, MDO14]. **case** [BHPZ19, FH14b, KF11, KMS12, LW17, OMH14]. **case-control** [FH14b, KF11]. **categories** [WZY18]. **Cauchy** [PM16b]. **Causal** [BPE14, REB18, RBM19, ST16a, ZJS11, CD17, JBGWS13, Lok17, MZZ+19, TS12, URBY13, ZDMD18]. **cause** [VR12]. **CCA** [GMZ17]. **cell** [HE18].

censored [DN11, GK12, Hua10b, SW12, SW16b, ZPH18]. **censoring** [ACF12, Gro14]. **Central** [JY13, BLRG17, EH19a, HQ14]. **centrality** [ELL15]. **centroid** [HP10]. **centroid-based** [HP10]. **cepstral** [MH14]. **chain** [Atc11, BB16a, BDD10, CDO11, FJ10, FMP11, MDO14, Sad16, WR13]. **chains** [Bac11, BFT13, HW16b, LTG16, MDO14, Tru19]. **Change** [SS11a, WZY18, BJV17, CZ15b, Che19a, CC19, EH19b, Fry14, Fry18, HTX17, Jir15, KRD10, LSR+17, PT10, SBK16, WZ18, XS13, ZYFW14]. **Change-point** [SS11a, WZY18, BJV17, CZ15b, Che19a, CC19, EH19b, Fry14, Fry18, HTX17, SBK16, XS13, ZYFW14]. **changed** [Bel11]. **changes** [Bul14, DW19a, VD15]. **characteristic** [Bel11]. **characterization** [HT14]. **Characterizing** [EI12]. **Chebyshev** [WY19]. **checking** [EJ10, TZ19a]. **Cheng** [Fuh10, Jen10]. **Chernoff** [Li16a, LLY18]. **Chib** [QH19]. **CHIME** [CMZ19]. **choice** [BBFGD12, CDH13]. **Cholesky** [LLL19]. **circulant** [CK15, LPK17]. **circular** [ZAL17]. **class** [KLN12, KH11, LPS08, LP10, Xu17]. **classes** [CCT17, DS13, HJY13, LM12c, Lep15, Str18]. **classical** [JY13]. **Classification** [BCDD14, GKM16, DW18, DKR18, FJY13, FKLZ15, HJY16, NR12, Sam16, SEG19, TSP13, ZYL18]. **classified** [BMW18]. **classifier** [CDH13]. **classifiers** [HP10, Sam12]. **clinical** [AZ12, ZH10]. **closed** [Li13]. **closed-form** [Li13]. **CLT** [ZPG18, ZBY15]. **cluster** [ACCD11, Che19c, DR10, Ma12]. **clustered** [CHL16, SW16b, Wan11]. **Clustering** [CMZ19, ACV16, CZ16, CW14, Cho17, JW16a, JW16b, JKW17, JY16, LR15, Nad16, NC10, RW10a, RCY11, SB15, SWY15, SC12, SEC14, Ste15, ST16b]. **clusters** [Wal10]. **Co** [CW14, Cho17]. **Co-clustering** [CW14, Cho17]. **coalescent** [CMW14]. **CoCoLasso** [DZ17]. **code** [MT13, Pho12, ZPMX11]. **coefficient** [BW19b, CHL16, FR13, KLZ11, KP15, LMP12b, LXQ16, LKZ15, MCLX15, ZLK12]. **coefficients** [BHPZ19, CGZ18, XMW10, YP15, Zhu17]. **coherence** [CJ11]. **coin** [AZ12, MR10]. **collaborative** [BCR10]. **column** [ZCX13]. **column-wise** [ZCX13]. **Combinatorial** [NLL19, ABBDL10]. **comments** [LK10]. **common** [BG10, FSD+17]. **communication** [Fel12]. **Community** [ACV14, GMZZ18, ACBL13, BCZ+15, CL15a, Jin15, LLV16, ZZ16, ZLZ12]. **comparative** [AZ12]. **comparing** [DS16]. **Comparison** [MDO14, KH11]. **comparisons** [ACCP11, HSRW19]. **competing** [BD13]. **complementary** [MT13]. **Complete** [DS13, KMS12, SR15]. **completion** [DP19, KLT11, Wan13, Zha19a]. **complexity** [FLSZ18, Men17, QH19, YWJ16]. **component** [BCF18a, CGY18, DM18, FLW16, IP11, LZW10, LH10b, Ma13, SY12]. **components** [BCF18a, BBTW11, BR13, CTT17, DE17, FJ19, HPV10, JW10, Nye11, WBS16]. **composite** [Bel11, CL11, KX14, XZC12]. **compressed** [CJ11]. **compromise** [MP17]. **Computation** [DFW19, XH12]. **Computational** [BD11, CLR17, MW15, GMZ17, WLZ14, WBS16, YWJ16]. **computationally** [CL15a]. **compute** [GRD13]. **computer**

[HQ11, LBST10, TW15]. **Computing** [SH15, Yu10]. **concave** [DW19b, DSS11, FXZ14, FZ19, HW16a, KS16, KGS18, KM10b, LYL16, Zha10]. **concentration** [CvdV12, CCK14a, HRSH15, KL17, PV18]. **Conditional** [Jac10, ZYS18, CD17, Han19, Hua10a, Lee13, LJ11, Nor10, PR12, SSL19, XZC12]. **conditioning** [Sad16]. **conditions** [CD12, Ler11]. **cone** [CCF14, SH15]. **cones** [WWG19]. **Confidence** [ABR10a, CG17, FLR+14, GN10, NvdG13, SHMD13, BLP19, BK18, BCCW18, CLX13, CGM+13, CCGB17, CCK14a, GJ15, HH13, HN11, Jir12, LK10, NL17, PR19, PS18, SZ15, Wan10, WLCY14, YL14]. **configurations** [RV11]. **Confounder** [WZHO17, VS13]. **conical** [PJS10]. **conical-hull** [PJS10]. **connection** [EW16]. **conquer** [BDS19]. **consequences** [YS12]. **considering** [XMW10]. **Consistency** [BCF18a, CDO11, DL17, DHSM18, DMOvH11, GD17, LR15, MMNP15, MGC10, SBV15, SR13, ZLZ12, BCZ+15, CKG19, CH10, CD12, Jia13, LLL19, LJ11, LZL18, LSR+17, Loh17, NHM18]. **Consistent** [KJ16, MMB17, MMB18, And10, TSP13]. **constant** [FG18a, XMW10]. **constants** [ULR18]. **constraint** [Cha14, CLZ19b, LS14]. **constraints** [CLX13, El 10a, Fel12, SHMD13]. **constructing** [CDH13, HH13, LBST10]. **construction** [CJ11, LK10, SLL11, SLQ14, Wan10]. **contamination** [CGR18]. **Contents** [Ano16d, Ano16e, Ano16f, Ano17b]. **context** [BO17, CD12]. **continuous** [ASFJ10, CDO11, DPZ19, Roč18, WCT11, ZJS11]. **continuous-time** [ASFJ10, DPZ19, ZJS11]. **contraction** [Atc17, Cas14, GZ15, GN11, NS17, PBPD14, YG16]. **contrastive** [JWJW18]. **contributions** [Che16, CF16, Del16]. **control** [FLSZ18, FH14b, GS10, JM18b, KF11, Liu13, RW10b, SF19]. **Controlling** [BC15, DR15, GHS14, PHW11]. **Convergence** [FMP11, HW19, HN16, Jan14, JWJW18, LZW10, Mas13, Ngu13, QH19, RH12, WR13, XQB13, ANW12a, BB18b, BSV14, CJ10, CZZ10, CZ12, CLZ16, CLM16, CL13b, DHSM18, GCW19, Gun12, Han11, KS16, LLL19, LH10b, PS10, Rou10, WLZ14, Yu10]. **Convex** [RYC19, ANW12b, CGW18, CS12, CPW12a, CPW12b, Cha14, GT12, Gun12, Han19, LM12b, RZ12, SS11b, SW10b, Wai12, WWG19, XCL16, Yua12]. **convex-transformed** [SW10b]. **Convexified** [CLX18]. **convexity** [EKDN18]. **convolution** [LW19]. **Convolved** [TPN19]. **Cook** [ZIC12]. **Coordinate** [CZC10, ZLZ18]. **Coordinate-independent** [CZC10]. **copula** [LHY+12, SvdAW14]. **copulas** [BV13, CEKL15]. **correct** [KP19]. **corrected** [CLX18, GMZZ18, ZLZ12]. **Correction** [BGvZ21, BCZ+15, CL10, DR16, DG12, FXZ15, FZ21, HWH13a, JW15, JG13, LP10, LTTT14a, OB13, FdHM15]. **correlated** [CL18, DPZ13, DPZ16, DKZ17, DPZ19, HJ10, JFF10, WXQL14]. **correlation** [BLPZ15, BHPZ19, ESW17, FR13, GMRZ15, Hua10a, HJY16, KLFL17, LPZZ12, PY12, SR14, YP15, ZCGZ19]. **correlations** [ACBL12, Dob17, FSZ18, LD18]. **count** [BB15]. **countably** [SSK14]. **Counterfactual** [Røy12, Lok17]. **counting** [MH13]. **Coupling** [Cha15b].

Covariance [CXW13, JP15, XW12, APT17, BPZ15, BFFP19, CZZ10, CJ11, CY12, CZ12, CGR18, CW12, DGJ18, FLM11, FRW15, FLW18, HLLZ19, JPSZ10, KR11a, KL17, Lam16, LW12a, LC12, LWY17, LW13, PBPD14, QC12, SN19, WF17, XQB13, XZ18, ZPW13, ZL11b, ZBY15, ZCCL19, ZLST17]. **Covariate** [JW10, KJF14, Zha19b, AGR18, DHZ16, HH12, MP17, MR12]. **covariate-adaptive** [HH12, MP17]. **covariate-adjusted** [AGR18, DHZ16]. **covariates** [AZ12, JFF10, MCLX15, MRS12, PR13, Sch13, SW12, Wan11, WXQL14, ZJS11]. **covariation** [BHMR14]. **coverage** [Bel17, Cas15, Gao13, Gho15, LM15, Nic15, Rou15, SvdVvZ15a, SvdVvZ15b]. **Cox** [BFJ11, DML10, HSY+13, LLY18, QWW16]. **Cramér** [CSWX16, LS10, LS13]. **Cramér-type** [LS10, CSWX16]. **credible** [Bel17, Cas15, Gho15, LM15, Nic15, Rou15, SvdVvZ15a, SvdVvZ15b, YG16]. **Criteria** [BBFGD12, AL11, HYS15, KJ16]. **criterion** [ATHW12, CHI14, FDD12, MC15, SEG19, SO18, ZL11a]. **critical** [Roh19]. **criticism** [ACCP11, HJ10, ZCX13]. **Cross** [RD19, BD14, BMW18, CGZ18, XH12, Zha19a]. **cross-classified** [BMW18]. **cross-over** [BD14]. **cross-validation** [CGZ18, XH12]. **crossover** [NK18, Zhe13a, Zhe13b]. **Current** [GH18, GJW10, TBK12, WZ12]. **curse** [BK19]. **Curvature** [Efr18, AL19]. **curve** [BYZ10]. **curves** [BG10, BG13, DS16, FSD+17, KF11, Zho10]. **cyclic** [CLN19, DFW19].

DAG [CKG19, LLL19, MW16]. **Dantzig** [RBM19]. **data** [ASJ10, BL14, BLN15, BS14, BFR19, BJNP13, CY11, CDH13, CC17, Cha17, CZ10, CQ10, CM12, CLLW15, CHLP14, CHL16, CW14, CC19, CGC11, DM18, DH12a, DH12b, DP19, DN11, ELL15, EPFV18, ER14, FFN10, FH14a, FH14b, Fry18, GK12, HP10, Han19, HWH13a, HWH13b, HK10, JW10, JW11, JYW14, JW15, JKL12, KLZ16, KH11, Koi19, KLJ15, Kon18, KV10, Lee13, Ler11, LH10a, LH10b, LS17, LZL19, LMY18, LY19, LW12b, Loh15, MB15, MY10, Mül16, NMR17, OMH13, PM16a, Sae19, Sam16, SWDW11, SL19, SW12, SW16b, TZ19b, TBK12, WZ10, Wan11, WXQL14, WZY18, WZ12, YP15, ZFY11, ZW16, ZCL16, ZPH15]. **Debiasing** [JM18a]. **Deciding** [LH10a]. **decision** [PHW11]. **decomposable** [KR11a]. **Decomposition** [BB10, ANW12b]. **decompositions** [Fry18, JBD17]. **deconvolution** [BG10, DGJ11, Del16, GPPVW12, HKKM10, KNP11, LN11, PS10, Pen17, SHMD13]. **deep** [BK19]. **defined** [Rao18]. **Defining** [DH10]. **definition** [VS13]. **definitive** [SEG19]. **degree** [BCL11, CLX18, GMZZ18, YLZ16, ZLZ12]. **degree-corrected** [CLX18, GMZZ18, ZLZ12]. **Degrees** [TT12a, SBK16]. **delivers** [JJ12]. **Delta** [GZ11]. **demographic** [BS14]. **denoising** [DG14b]. **dense** [ACV14, CHL17, ZW16]. **densities** [BW19a, HW16a, LPS08, LP10, Nor10, QT19, SW10b]. **Density** [ASW13, AS11, ACF12, BGK10, CJ10, CLSY18, CL13c, CGW15, DH10, DW19b, GN10, GL11, GNZ10, HKKM10, JPSZ10, KS16, KGS18, KM10b, LMNP15, LMNP17, Lep13, LW19, Ler11, Li13, MJ15, PR16, Pen17, PM16a,

RW10a, RR12, Rou10, RCL12, SW10a, Ste15, Str18]. **density-based** [Ste15]. **Density-sensitive** [ASW13]. **dependence** [BKRS19, BDV11, BSV14, CSWX16, Chi11, EKS12, EBGG18, Lah10, LLBM+11, LZ17, MMB11, ZYS18, ZCX13, ZBFL18, ZZX18]. **dependence-adjusted** [ZBFL18]. **dependent** [EPFV18, HK10, SO18, SN19]. **depending** [Efr13]. **depth** [CGHH17, ELL15, HPŠ10a]. **depths** [PV18]. **derivative** [ABT11]. **Descartes** [BS14]. **descriptors** [HE18]. **design** [AGR18, AZ12, CZvdL17, DPZ13, LPK17, PP14, Roh19, SS11a, SD12]. **Designs** [God18, AZ12, BD14, BLRG17, BD13, CC18b, CK15, DGH+19, DM11, DMS12, DS13, DMS13a, DG14a, DMG15, DS16, DPZ16, DKZ17, FSD+17, HQ14, HYS15, HW17, JM18a, LZA15, LBST10, LMY19, MT13, NK18, Pho12, SH15, SR15, SEG19, SLL11, SLQ14, SWX19, TXL12, WXX18, YS12, Yu10, ZPMX11, ZDMD18, Zhe13a, Zhe13b, Zhe15, ZAL17]. **Detecting** [DW19a, QCN18, VD15, HJ10, PT10, STY14]. **Detection** [ACCD11, ACBL12, MMS18, VAC17, ACBL13, ACV14, BR13, BCZ+15, Bul17, CL15a, CW15, Cha17, CZ15b, Che19a, CS17, CC19, Dob17, EH19b, Fry14, Fry18, GMZZ18, HTX17, ISS12, Jin15, LLV16, LG17, MW15, OMH14, SGA11, Wal10, WZY18, WZ18, XS13, ZZ16, ZLZ12]. **deterministic** [SD12]. **Deviation** [DRZ12, LS10, LS13]. **deviations** [CSWX16, GZ11, Gao13, GXZ18]. **diagram** [DFKP19, JJ12]. **diagrams** [FLR+14]. **dichotomous** [VR12]. **dictionaries** [Pen16, WCT11]. **difference** [Liu17, LK10, Wan10]. **differences** [LZ17]. **differentiable** [HYS15]. **differential** [PL11, QZ10, XMW10]. **differentiation** [HE18]. **diffusing** [NH14]. **diffusion** [BGK10, CC11, Li13, ZL11b]. **diffusions** [MS10b, NS17, Str18]. **digital** [Dic11]. **dimension** [ABR10a, ABR10b, BL12, BR13, CZC10, FKLX15, JP15, Jir15, KX14, LLC13, LH10a, LKA10, LAL11, LS17, LLY14, MZ13, MZZ+19, MGC10, OMH14, SW16a, WKL13, YL11, ZPW13, ZYS18]. **dimensional** [ANW12a, ATHW12, AcL17, ACV16, Atc17, BCF18a, BCF18b, BW19a, BLPZ15, BHPZ19, BC19, BM15, BFL+18, BC11a, BB16b, BW19b, BJNP13, BDP19, BPE14, BSW11, BSW12, CZ16, CLR16, CG17, CG18, CZ18, CMZ19, CKG19, CTP19, CC17, CTW18, CQ10, CXW13, Che18, CL18, CLZ19a, CHLP14, CCK13, CMKR12, CFR12, CF19, CGZ18, CPV17, DZ17, DW18, EH19a, EH19b, FLM11, FKLZ15, FJ19, GKM16, Gol10, GZ16b, HP10, Han19, HWH13a, HWH13b, HLLZ19, HMLZ11, JvdG18, JJ12, JY13, JLP+16, JW16a, JW16b, JKW17, KP15, KS11, KLFL17, KV10, LY12, LW12a, LZW10, LLL19, Lee13, LH10a, LC12, LKZ15, LZ17, LLYY19, LZL19, LHY+12, LW12b, Loh17, MCLX15, MPL15, Nad16, NMR17, NHM18, NW11, NL19, NL17, NZL17, OWJ11, OMH13, QC12, RYC19, RWL10, RWG19, RLM+17, RT11b, RCY11, Sam16, SWDW11, SD12, SFSL18]. **dimensional** [SSCL19, SL19, ST16b, TZ19b, TWZ13, VV10, WF17, WY17, WH19, XQB13, XZ18, XCL16, XZ12, YP15, YWJ16, YDS16, YZ16, Zha13, ZW17, ZPG18, ZLLW13, ZL11b, ZPH15, ZBY15, ZPH18, ZCCL19, ZCGZ19, ZCX13,

ZLST17, Zhu17]. **dimensionality** [BYZ10, BK19, BFJ11, CD12, El 10a, FS10, Lv13]. **dimensions** [ANW12b, DGK19, EKS12, FL14, HWCS19, LM12a, LD18, LZL18, VL13, YT15]. **direct** [LSR+17]. **directed** [CMKR12, DP13, ER14, HJY13, KMH14, YLZ16, vdGB13]. **direction** [Akr16]. **directional** [PV17, PJS10]. **directions** [MW16]. **Dirichlet** [KGC10]. **discontinuous** [SO18]. **discoveries** [FSZ18, SBC17]. **discovery** [BC15, DR15, GHS14, JM18b, Liu13, NR12, PHW11, RV11, WR13]. **discrete** [CDH13, DLP12, ER14, Eva18, Khm13, LM12d, LW13, MW16, WRM19, ZJS11]. **discretely** [ASJ12, BG13, CY11, NS17]. **discretized** [JPV10]. **discriminant** [SWDW11]. **Discriminating** [Li16a, BD13, DMS13a, DMG15]. **discrimination** [DMS12, HW17, Huc11]. **Discussion** [ACV16, BMvdG14, BB14, CY14, CZ16, CS12, Cas15, FK14, Gho15, GT12, KM10c, LM12b, LM15, LZ14, Nad16, Nic15, RZ12, Rou15, SZ10, ST16b, Wai12, Was14, Wei10, Yua12]. **discussions** [SvdVvZ15b]. **dissimilarities** [SR14]. **Distance** [BKRS19, KLFL17, Li16a, SSGF13, SR14, VL18, WXX18, ZIC12]. **distance-based** [SSGF13]. **distances** [BSY19]. **Distributed** [BFL+18, FWWZ19, VCC19]. **Distribution** [CLOP19, CEKL15, CL13b, CC19, DGJ11, DH10, DKL12, EPFV18, Khm13, KSZ18, PJS10, PT10, WLCY14, WZ12, XQB13, XZ18]. **distribution-free** [CEKL15, CC19, EPFV18]. **distributions** [Atc17, BCL11, DP13, Des15, DSS11, FJ19, GN11, HKKR11, HLLZ19, JY13, KR11a, Khm13, Lee13, Rou10, ULR18, XKB16, FSZ18]. **Divergence** [PTWZ18, DKR18, JWJW18]. **divergences** [HW16a]. **divergent** [ZPW13]. **diverging** [TZ19a, Wan11, WXQL14]. **Divide** [BDS19]. **Do** [KNV15, HSRW19]. **does** [Ste11]. **domain** [BLN15, BFFP19, KP11, Rao18, VL18]. **Dominating** [SSK14]. **door** [MC15]. **dose** [FSD+17]. **Doubly** [TZ19b, AZ12, SW16b]. **doubly-censored** [SW16b]. **drift** [GLM18]. **driven** [GLM18, Mas13]. **dropout** [Zhe13b]. **Dynamic** [Bow10, Pen19, SFSL18, SYZL14]. **dynamical** [HS17, MMNP15]. **dynamics** [MY10, PPB16].

E-optimal [DG14a]. **early** [SBC17]. **Edge** [PY12]. **edges** [PJS10]. **Edgeworth** [Bob19, Lah10]. **Editor** [LK10]. **Editorial** [Ano16a, Ano16b, Ano17a, Li16b, Ano16c]. **effect** [NMR17, Ste11]. **effective** [LH10a]. **Effects** [Chi11, BL14, CJ10, El 10a, FL12, FJ19, HL18, KGC10, Lok17, MB15, Roh19, SSL19, Zha18]. **Efficiency** [TS12, BDS19, BHMR14, HL13, JvdG18, QZ10, STRR15]. **Efficient** [AV13, Ano10, BSY19, CC18a, CHL16, FH14b, Fuh06, Fuh10, JR13, JT14, Jen10, LLX19, MZ13, MNP19, TW15, Vim10, Zha19a, BFR19, DN11, FL16, GLM18, IP11, KLZ11, LLY14, MZZ+19, PO10, SvdAW14, SW16b, WLCY14, XH12, YL14]. **EFM** [CHZ11]. **Efron** [MR10]. **eigenspaces** [FWWZ19]. **eigenstructure** [WF17]. **Eigenvalue** [FJ19, BPZ15, HPZ16, Lam16].

eigenvalue-regularized [Lam16]. **eigenvalues** [BCF18b, Dob17, DGJ18, JLX17, WY17, ZPG18]. **eigenvector** [XQB13]. **eigenvectors** [TP18]. **eighth** [ZPMX11]. **elicitability** [FZ16, FZ21]. **elimination** [DGK19]. **elliptical** [FLW18, HLLZ19]. **embedding** [WW18]. **Empirical** [BMW18, BJL15, BSV14, KM10a, MM18, MY10, TW13, BLN15, BD11, CL08, CL10, CTW13, CTW16, CTW18, CCK14b, CL15b, CAGPFBGM19, DP18, DR10, ELL15, KF11, LM12a, LC10, MBM18, NBL13, RS17, SB10, WF17, XQB13, YH12, YL14]. **empirical-Bayes** [SB10]. **emulation** [GWB18]. **emulators** [HQ11]. **encounter** [PM16b]. **Endogeneity** [FL14]. **enhanced** [PHW11]. **ensemble** [YL11]. **ensembles** [BGN18, Lop19]. **entries** [Min18]. **entropy** [BSY19, Kol11]. **envelope** [KPS17, LM12c]. **epi** [BSV14]. **epi-** [BSV14]. **equation** [DFS11, DFW19, FDD12, REB18, RBM19, XMW10]. **equations** [CTW18, Ma12, OPP17, PL11, QZ10]. **Equivalence** [SSGF13, BGN18, GNZ10, HJY13, Mei11, Rei11, SH14, Wan13]. **equivalency** [PS10]. **ergodic** [Mas13, Str18]. **ergodicity** [DBCD19, JG12, JG13]. **Erich** [Roj11, vZ11]. **error** [DZ17, Dic11, FLSZ18, GS10, KSZ18, MM18, NS11, PHW11, RW10b, SF19, WLCY14, XMW10, DKL12]. **error-in-variables** [DZ17]. **errors** [CHI13, DPZ16, DPZ19, FR13, HP18, HW19, JMR14, LXQ16, Sch13, TWZ13, TGC+19]. **errors-in-variables** [HP18]. **estimate** [JPSZ10, Lok17]. **estimates** [BMW18, DFW19, Efr18, MS10b]. **Estimating** [AGZ17, BHMR14, BJR16, Bul14, CLZ16, CD13, CFR12, HL18, Loh15, Lop19, NMR17, BCF18a, BGvZ12, BGvZ21, CJ10, CTW18, HJY16, Ma12, OPP17, TBM11]. **Estimation** [ACL19, Ano10, ABT11, BFFP19, CEdH11, CLSY18, CTT17, CGC11, DGT16, DPZ12, FRW15, Fuh10, GL12, Jen10, JFF10, Kat12, KGC10, LXQ16, LYW+11, LTG16, LLLT10, MCLX15, Muk16, NW11, RT11b, SD12, SN19, WXZC10, WLLC11, WXQL14, AL19, ATHW12, AS11, BM15, BFL+18, BCW14, BCCW18, Bel10, Bel11, BF12, BSY19, BPD14, BG10, BW19b, BGK10, Bul16, BSW12, CZZ10, CY11, CL11, CY12, CZ12, CMW13, CLZ16, CGW18, CKG19, CCGB17, CV19a, CC11, Cha15a, CXW13, CGR18, CLN19, CH10, CHL16, CF16, CW12, CZW11, CCT17, CCTV18, CGZ18, DL17, DE17, DN11, DM12, EL10, EvdG18, EBGG18, FFN10, FLM11, FXZ14, FL16, FG18a, FLW18, FWWZ19, Fel12, FY10, FR12, Fuh06, GMRZ15, GLZ15, GMZ17, GPPVW12, GPPVW14, GN10, GLM18, GL11, GNZ10, GJW10, Gun12, HKKR11, HW16a, HW16b, HK18]. **estimation** [HN16, HR11, HKKM10, Jac10, JR13, JT14, JP15, JY11, JMR14, KLZ11, KJF14, KS16, KGS18, KTV17, KM10b, Kol11, KR13, KV17, LUZ19, LW12a, LLC13, Lep13, LS14, Lep15, LW19, Ler11, Li13, LLX19, LZL19, Liu13, LW13, LMP18, MZ13, MMNP15, MMB17, MMB18, MJ15, PL11, PPB16, Pen17, Pen19, QZ10, QP16, QC12, QWW16, RSZZ15, RBS10, RT11a, RPF13, RLM+17, Roč18, Rou10, RCL12, SW13, SW10a, SY12, SvdAW14, SS11b, SO18, SW10b, Spo12, Str18, SW16b, TZ19b, TWZ13, TPN19, Tib14, Tod15, TGC+19, Uhl12, VR19, Ver10, Vim10, VL13, WZ10, WLCY14, WBS16, WZ12, WZ18, WY19, XW12, XKB16, XMW10, XZC12,

XZ12, YZ16, ZW15, ZBC19, ZL11b, Zho14a, ZBFL18]. **estimations** [CL13c]. **estimator** [BB18b, DMOvH11, EKS12, Gao13, HMLZ11, Jan14, Lam16, PO10, RS17, SBW10, Zha13]. **estimators** [ACF12, Atc11, BB18a, Bel18a, Bel18b, BDV11, BSW11, CL13b, DS12, DLLO16, DKL12, FJ19, FdH15, FJ10, GZ11, Gro14, HW19, JT15, Jir12, LPS08, LP10, Loh17, LN11, LM19, Min18, PJS10, QCN18, TA17, YL11, ZL11c]. **Euclidean** [CC19, PM19]. **Evaluating** [LGS11]. **event** [JLX17]. **Exact** [BRS19, CR13, KP19, LSST16, MR10, MH13, MJ15, RV11, ULR18, GZ16a, SH15]. **exceedance** [JM18b]. **excess** [DW19a]. **exchangeable** [CW14, VR19]. **expansions** [Lah10, Li13, WCT11]. **experimental** [CK15]. **experiments** [AGL14, BB16a, BB10, CCC19, God18, HQ11, LBST10, LPK17, MR12]. **Exponential** [DBCD19, RT11a, BCZ10, CD13, DPZ12, HF19, JWJW18, Muk16, SR13, YLZ16, ZL11c]. **exponentially** [DGP18]. **exposures** [VR12]. **expression** [LS10, NC10]. **Extended** [CD17]. **extension** [YS12]. **exterior** [ABT11]. **Extremal** [Zha18, BB18b, JLX17]. **Extreme** [WY17, BDV11, CEdH11, ELL15, FdH15]. **extreme-value** [BDV11]. **extremes** [FdHM15]. **extremity** [ELL15].

faces [WRM19]. **Factor** [KS11, LY12, BL12, FLM11, FLW16, FLW18, PBPD14]. **factorial** [CC18b, TXL12]. **factorization** [BQS18]. **factors** [CCC19, LY12, LLL19, LM12d, LWY17, MG11, MGC10]. **fails** [BSV14]. **failure** [LJ18]. **faint** [QCN18]. **Faithful** [XCL16]. **faithfulness** [URBY13]. **False** [SBC17, BC15, DR15, GHS14, JM18b, Liu13, NR12, PHW11, RV11]. **families** [BCZ10, DPZ12, HF19, LLY18, Muk16]. **family** [HIT19, JWJW18, PHW11, XKB16, FLRB16]. **family-wise** [PHW11, FLRB16]. **familywise** [GS10]. **Fast** [ANW12a, Jin15, RBM19, SS13, YPW17, Fry18, Wal10]. **favorable** [RV11]. **FDR** [ZFY11]. **feasible** [CL15a]. **Feature** [DGK19, CTW13, CTW16, Jam17, VAC17, YDS16]. **features** [ACV16, BB15, CZ16, JW16a, JW16b, Nad16, SHMD13, ST16b]. **Fiducial** [TL13, CH12, WH19]. **field** [KLN12, Loh15]. **fields** [AST12, And10, CCC19, CS17, LX12, Mas13, MH14, Ver10]. **filament** [QP16]. **filling** [HQ14, SLQ14]. **filter** [BC19, MZ15, RBWJ19]. **filtering** [GLM18, IBAK11, ST19, Tib14]. **filters** [CL13a, WL14]. **financial** [JKL12, WZ10]. **Finding** [GL18]. **Finite** [BHPZ19, ZBFL18, ASJ11, BYZ10, GKM16, HK18, HN16, HIT19, Lv13, Ngu13, QZ10, TA17, Spo12]. **finite-sample** [QZ10, TA17]. **first** [Akr16, DS11, JPSZ10]. **Fisher** [CI11, WY17]. **fit** [Bul17, CEKL15, CAGPFBGM19, KLN12, KSZ18, Lei16, TWT17, VV10, WW18]. **fitting** [SL19]. **Fixed** [KRS15, ZS13, BFFP19, MH13, ZPW13]. **fixed-margin** [MH13]. **Fixed-smoothing** [ZS13]. **Flexible** [DE17, LMP12b, LBST10]. **flow** [CLM16]. **fMRI** [CK15, LPK17]. **Focused** [ZL11a]. **folded** [FXZ14, LYL16]. **folding** [LKA10]. **forecasting** [GRSP15, LMNP15, LMNP17]. **forecasts**

[LGS11, SSK14]. **forests** [ATW19, SBV15]. **form** [Li13, Zhu19]. **forms** [AW12, DE17]. **formula** [AST12, TLT16]. **formulas** [ULR18]. **Formulation** [LLC13]. **Fourier** [PT13, Rao18]. **Fractals** [MS10a]. **fractional** [Bel10, BPY19, BF18, HR11, SH14, TXL12]. **fractions** [Pho12, ZPMX11]. **frailty** [SW16b]. **framework** [BCCW18, NZL17, ZCL16]. **Fréchet** [BG13, PM19]. **free** [CEKL15, CC19, EPFV18, HWH13a, HWH13b, Khm13, MZ15, YDS16]. **freedom** [TT12a]. **Frequency** [VL18, ASJ10, BLN15, BF18, CEL16, CGC11, JKL12, KP11, Koi19, KLJ15, Kon18, Mas13, WZ10, XZ18]. **Frequentist** [Cas15, Gho15, LM15, Nic15, Rou15, SvdVvZ15a, SvdVvZ15b]. **Fuh** [Jen10]. **full** [BD14, TW13]. **Fully** [MG11, Ste15]. **function** [AGZ17, Arm15, BGvZ12, BGvZ21, Bel11, BPD14, BDV11, CY11, CL13c, CF16, EBGG18, HL13, JMR14, LZL19, LMP18, PT13, SS11b, TBM11, WZ12]. **Functional** [BLRG17, DP19, FJR15, JW11, KPS16, PM16a, AGR18, AW12, BBTW11, BCCW18, CY11, CL11, CDH13, CHM11, CM12, CJ12, CAGPFBGM19, DM18, DH12a, DPZ12, HMV13, HK10, HKN18, JW10, JMW15, Kat12, Lep15, LH10a, LH10b, LS17, LMY18, LY19, LLY14, MS10a, Mei11, Mül16, Pap18, PS10, QWW16, RLM+17, SC15, YC10, ZW16, ZLK12]. **functional/longitudinal** [LH10b]. **functionals** [CR15, CCT17, CCTV18, DR10, FRW15, JR13, Jan14, Koi19, LLX19, Pen17, RR12]. **functions** [ACL19, BFFP19, BSV14, CLX13, wCM19, DGJ11, DH10, GXZ18, GJ15, Gun12, HH13, JPSZ10, LX12, PHW11, PM16a, Zha19b]. **Further** [GHS14]. **Fused** [JMW15, MZ15].

Gamma [NC10]. **Gamma-based** [NC10]. **GARCH** [FZ13, ZL11c]. **GARCH/IGARCH** [ZL11c]. **Garza** [DM11, Yan10]. **Gaussian** [AST12, And10, BHPZ19, BPD14, Bon11, BF18, BGN18, CMZ19, CV19a, CN13, CCC19, Che18, CCK13, CCK14b, DLLO16, DKZ13, FJY13, FL16, GL18, GL12, GNZ10, GWB18, HPWW11, HR11, JM18a, JN18, KvdVvZ11, Koi19, KMH14, LUZ19, LHY+12, LX12, Liu13, Liu17, Loh15, LM19, Mas13, Men17, Min18, MJ15, PO10, Ray17, RSZZ15, RCL12, SvdAW14, SW19, STD10, Uhl12, Ver10, VV10, ZW17]. **GEE** [CLLW15, Wan11]. **Gemini** [Zho14a]. **gene** [CQ10, LS10, NC10]. **gene-expression** [NC10]. **gene-set** [CQ10]. **General** [BB18a, LM12c, VR12, ZBC19, BPZ15, CLR16, CL13a, CH10, DPZ12, DMOvH11, GKM16, HWCS19, HQ14, JL14, LLC13, NL17, RH12, Yu10]. **generalised** [LKZ15]. **generalizations** [GZ16b]. **Generalized** [ATW19, Che19c, CH12, GX14, LW13, RW10a, WWG19, AcL17, BFFP19, CHI14, FS10, HBZO19, Jam17, JMW15, LMP12b, Ma12, MCLX15, MC15, MG11, OPP17, QZ10, Rig12, RW10b, SC15, SSCL19, SF19, TT11, WLLC11, WXQL14, WH19, ZL11a]. **generated** [MRS12]. **generic** [FDD12]. **genewise** [FFN10]. **genome** [JLP+16, RBS10]. **genome-wide** [JLP+16]. **genomic** [BS14, WR13]. **geodesic** [Huc11]. **Geometric** [CLR16, BM17, CCGB17, JG12, JG13, LZ11, SC12]. **Geometry**

[SvdAW14, Uhl12, URBY13, CTP19, HW16b, LM12d, SWY15, WWG19]. **geostatistical** [CHI14]. **geostatistics** [CZW11]. **Getoor** [ASJ12]. **Gibbs** [DL17, RH12]. **glimpse** [Roj11]. **GLMM** [Jia13]. **Global** [ACCP11, CEL16, DFS11, KS16, LYL16, LN11, MMY18, ZL11c, ANW12a, LS13, Men17, PP14, SC13]. **Globally** [MS10b, ZPH15, WW18]. **good** [WXX18]. **Goodness** [CAGPFBGM19, KLN12, KSZ18, VV10, Bul17, CEKL15, Lei16, TWT17]. **Goodness-of-fit** [CAGPFBGM19, KSZ18, VV10, Bul17, CEKL15, Lei16, TWT17]. **Gradient** [WZ18, ANW12a, CL15b]. **Gradient-based** [WZ18]. **gradients** [TA17]. **gradual** [VD15]. **Graph** [CZ15b, EW16, Zho14a, BD15, CKG19, CD13, KR11a, SR13, YLZ16]. **Graph-based** [CZ15b]. **graphic** [FJY13]. **graphical** [AV13, BK18, CS12, CPW12a, CPW12b, DKZ13, FL16, GL12, GT12, KMH14, LM12b, LS18, LHY+12, Liu13, Liu17, LW13, NLL19, RZ12, RSZZ15, Røy12, ST16a, STD10, Uhl12, ULR18, Wai12, XZ12, Yua12]. **graphon** [GLZ15, KTV17, Pen19]. **graphons** [Cho17]. **graphs** [Bow10, CMKR12, ER14, FG18a, HJY13, KR13, MMS18, Sad16, TSP13, TP18, VR19, vdGB13]. **greater** [CW12]. **greedy** [DRZ12, Fry18]. **Grenander** [DKL12, Jan14, SBW10]. **Grenander-type** [DKL12]. **grid** [TBK12]. **group** [BO17, DH12b, HZ10, LPvdGT11]. **Groups** [DKZ13]. **grows** [MGC10]. **growth** [Huc11]. **guaranteed** [GRD13]. **guarantees** [AV13, BWY17, JKNP12, LW12b, QM11].

Half [FDD12]. **Half-trek** [FDD12]. **Halfspace** [PV18, HPŠ10a]. **Hall** [Che16, CF16, Del16, Mül16, Sam16]. **Hamming** [BNST18]. **Harris** [LTG16]. **Hastings** [DR11]. **Hausdorff** [GPPVW12]. **Hawkes** [RBS10]. **Haystack** [CvdV12]. **hazards** [BFJ11]. **heavy** [BJL15, HW19, Min18]. **heavy-tailed** [BJL15, HW19, Min18]. **Hellinger** [HW17]. **help** [HSRW19]. **Hermite** [CL11]. **heterogeneous** [HWH13a, HWH13b, ZCL16]. **heteroscedasticity** [Zhu19]. **heuristic** [DR15]. **hidden** [CL13a, Chi11, DMOvH11, DM12, RBM19]. **hierarchical** [BTT13, CLOP19, HA13, LM12d, WRM19]. **hierarchy** [ST16a]. **High** [ATHW12, DW18, El 10a, EH19b, FLM11, GZ16b, HLLZ19, LHY+12, LW12b, NHM18, RWL10, SFSL18, ZLLW13, ZPH18, ANW12a, ANW12b, ASJ10, AcL17, ACV16, ABR10a, ABR10b, Atc17, BL12, BCF18a, BCF18b, BW19a, BHPZ19, BC19, BM15, BFL+18, BC11a, BR13, BB16b, BW19b, BJNP13, BF18, BPE14, BSW11, BSW12, CZ16, CLR16, CG17, CG18, CZ18, CMZ19, CKG19, CTP19, CC17, CTW18, CQ10, CXW13, Che18, CL18, CLZ19a, CHLP14, CCK13, CMKR12, CD12, CGC11, CFR12, CF19, CGZ18, CPV17, DGK19, DZ17, EH19a, FL14, FKLZ15, FJ19, Gol10, HP10, HWH13a, HWH13b, HMLZ11, JvdG18, JJ12, JY13, JLP+16, JW16a, JW16b, JKW17, JKL12, Jir15, KP15, KS11, Koi19, KLJ15, KLFL17, Kon18, KV10, LM12a, LY12, LZW10, LLL19, Lee13, LD18, LH10a, LC12, LKZ15, LZ17,

LLYY19, LZL19, LZL18, LC10, Loh17, Lv13]. **high** [MCLX15, Mas13, MPL15, Nad16, NMR17, NW11, NL19, NL17, NZL17, OWJ11, OMH13, OMH14, QC12, RYC19, RWG19, RLM+17, RT11b, RCY11, Sam16, SWDW11, SD12, SW16a, SSCL19, SL19, ST16b, TZ19b, TWZ13, VV10, VL13, WZ10, WKL13, WF17, WH19, XZ18, XCL16, XZ12, YP15, YT15, YWJ16, YZ16, Zha13, ZW17, ZPG18, ZYS18, ZL11b, ZPH15, ZBY15, ZCCL19, ZCGZ19, ZCX13, ZLST17, Zhu17]. **High-dimensional** [ATHW12, DW18, EH19b, FLM11, GZ16b, HLLZ19, LHY+12, LW12b, NHM18, RWL10, SFSL18, ZLLW13, ANW12a, AcL17, Atc17, BCF18a, BCF18b, BW19a, BHPZ19, BC19, BM15, BC11a, BW19b, BJNP13, BPE14, BSW11, BSW12, CLR16, CG17, CG18, CZ18, CMZ19, CKG19, CTP19, CC17, CTW18, CQ10, CXW13, Che18, CL18, CCK13, CMKR12, CFR12, CF19, CGZ18, CPV17, DZ17, EH19a, FKLZ15, FJ19, Gol10, HP10, HWH13a, HWH13b, HMLZ11, JvdG18, JJ12, JY13, JLP+16, KP15, KS11, KLFL17, KV10, LY12, LZW10, LLL19, Lee13, LH10a, LC12, LZ17, LLYY19, LZL19, Loh17, MCLX15, MPL15, NMR17, NW11, NL19, NZL17, OWJ11, OMH13, QC12, RYC19, RWG19, RLM+17, RT11b, RCY11, Sam16, SD12, SL19, TZ19b, TWZ13, VV10, WH19, XZ18, XCL16, XZ12, YWJ16, Zha13, ZPG18, ZBY15, ZCCL19, ZCGZ19, ZCX13, ZLST17, Zhu17]. **High-dimensionality** [El 10a]. **high-frequency** [ASJ10, BF18, JKL12, Koi19, KLJ15, Kon18, WZ10, XZ18]. **high-order** [LC10]. **Higher** [Dic11, FZ16, ACCP11, CL13b, HJ10, Loh15, WMZ18, ZCX13, FZ21]. **higher-order** [Loh15]. **highest** [SW10a]. **highly** [JFF10]. **Hilbert** [AW12, CCGB17, Lev15, LLLH18, PM16a, YC10]. **hold** [Ste11]. **homodyne** [LMP18]. **homogeneous** [DH12b]. **honest** [CCK14a]. **Hotelling** [LS13]. **Huber** [CGR18]. **hull** [PJS10]. **hybrid** [NHM18, TBM11, ZvdAW19]. **hyperbolic** [HKKM10]. **hypercube** [WXX18]. **hypergraph** [GD17]. **hypographs** [BSV14]. **hypotheses** [CL11, NS11]. **Hypothesis** [BW19a, MPL15, ZCCL19, ASFJ10, Li14, NJ13, NL17, PV17, SSGF13, SSCL19, WZHO17, WWG19, ZBY15].

I-LAMM [FLSZ18]. **Identifiability** [Xu17, BS14, DFS11, FDD12, HK18]. **identifiable** [HN16]. **Identification** [ZAL17, CHLP14, KLZ16, SQ17]. **Identifying** [ASJ12, BYZ10, LWY17, YS12]. **idiosyncratic** [Kon18]. **IGARCH** [ZL11c]. **II** [ABR10b]. **II.** [BB10]. **ill** [ISS12, Pen16]. **ill-posed** [ISS12, Pen16]. **image** [AL11, LG17]. **imaging** [ZFY11]. **imbalanced** [FH14b]. **Immigrated** [ZHCC11]. **Impact** [JY16, KPS16, MS10a]. **Impacts** [Lv13]. **impedance** [HKKM10]. **imperfect** [TW15]. **implied** [QT19]. **implies** [EKDN18]. **importance** [EL10]. **improper** [MH11, RH12]. **improve** [MR12]. **Improved** [BLT18, CW12]. **in-sample** [LMNP15, LMNP17]. **incoherence** [LW17]. **Inconsistency** [SBW10]. **increasing** [Bon11, JP15, YLZ16]. **Independence** [YP15, ABFRB15, BDP19, Bow10, CTW13, CTW16, CL18, CHLP14, CD17,

FS10, Hua10a, Lep13, LD18, Røy12]. **Independent** [SY12, CZC10, IP11]. **index** [BB18b, CHM11, CLLW15, CHZ11, DGT16, DZ14, JW11, JL14, JMW15, Kau18, LS14, LYW+11, LLY18, LLLT10, LY11, MH16, WXZC10]. **Indian** [Jam17]. **indices** [ASJ12]. **individualized** [QM11]. **inequalities** [ACL19, Bel18b, DS12, GL11, Gol10, HSY+13, KTV17, LM12c, LW19, LPvdGT11, LLLH18]. **inequality** [HS17, LJ10]. **Inference** [DW19b, FZ13, KRD10, LY12, MH16, PV17, TLT16, ZW12, Zho14b, ASW13, BC19, Bel11, BBB+13, BV13, CLR16, CGT16, CZvdL17, CH12, CD17, DP13, DHSM18, DP18, Efr18, FH14a, GXZ18, HPWW11, HN11, HBT16, Huc11, HE18, IP11, KV10, LSST16, LV15, LW10, LPvdGT11, LvdL16, MCLX15, MZZ+19, MNP19, NLL19, Rao18, Rei11, RWG19, REB18, RBM19, SC13, SC15, SQ17, ST16a, TBK12, TL13, TT18, TRTW18, URBY13, VL18, VCC19, WH19, WM10, XZ18, ZJS11, ZBC19, ZDMD18, Zho10, Zhu19, dJvZ10]. **infinite** [ASJ11, CGT16, JT14, Ngu13]. **infinite-variance** [CGT16]. **infinity** [CTP19]. **influence** [ZLLW13]. **influences** [JBGWS13]. **Influential** [ACV16, CZ16, JW16a, JW16b, Nad16, ST16b]. **Information** [HW16b, MP17, AL11, CI11, CHI14, DKR18, El 10b, KNV15, LPS08, LP10, ZL11a]. **Information-regret** [MP17]. **inhomogeneous** [MDO14, MB15, Pen13, Tru19]. **inner** [LMY18]. **Innovated** [FKLZ15, FL16, HJ10]. **instances** [Zho14a]. **instrumental** [Kat13]. **integer** [SH15]. **integrals** [JY11]. **integrands** [Dic11]. **integrated** [DGT16, JT14, LLX19, ZL11b]. **interacting** [BDD10, FMP11]. **Interaction** [KLFL17, BD14, FKLZ15]. **interactions** [BTT13, MCLX15, VR12]. **interactive** [BL14]. **interest** [LLY14]. **interference** [LZA15, Zhe15, ZAL17]. **intermediate** [RCL12]. **Intermittent** [BMBM15]. **interval** [CGC11, Gro14, LK10, Wan10, YL14, ZZX18]. **intervals** [BLP19, BK18, CLX13, CG17, GJ15]. **interventions** [NMR17, RBM19, ST16a]. **Intrinsic** [Huc11, LY19, HBT16]. **Introduction** [BC11b]. **invariance** [HBZO19]. **Invariant** [EJ10, Str18, Vim10]. **Inverse** [JYW14, JW15, CLR16, ISS12, JL14, KM10a, KvdVvZ11, LZL18, Mei11, Pen13, PWM18, TBM11, YDS16]. **inverses** [LW13]. **irregularly** [BLN15, Loh15]. **Ising** [ATHW12, BRS19, MMY18, NL19, RWL10, XZC12]. **Isotonic** [HWCS19, CGS15]. **Itô** [TWZ13]. **Iterated** [IBAK11]. **iterative** [Ma13].

jack [OPP17]. **jack-knife** [OPP17]. **jackknife** [LLX19]. **Joint** [BSW12, CS15, NMR17, WZ12]. **Jump** [GLM18, Tod15, Bul16, CMW14, JKL12, KLJ15, TT12b, Tod17]. **jumps** [ASJ11, JT14].

Kac [TLT16]. **Kantorovich** [CGHH17]. **Kendall** [Bao19, BK18]. **Kernel** [Atc11, BGK10, AW12, ACF12, CL15b, DGK19, El 10b, GL11, JMW15, El 10c, KY10, LLLH18, MN10, SS13, YC10]. **kernel-spline** [JMW15]. **kernelized** [SWY15]. **kernels** [KR13, WCT11, YPW17]. **Khinchine**

[Bob19]. **kinematic** [AST12]. **kinetic** [Bow10]. **knife** [OPP17]. **knockoff** [BC19]. **knockoffs** [BC15]. **knowledge** [RBWJ19]. **Kolmogorov** [FG18b, MZ15]. **Kullback** [CGM+13, Rig12].

labels [AGZ17]. **LAMM** [FLSZ18]. **landscape** [MBM18]. **Laplace** [DGP18, TT12b]. **Laplacian** [EW16, HMLZ11, TP18]. **Large** [ACF12, BB16b, FLW18, Sae19, ACBL13, BLPZ15, BDP19, CJ10, CKW+16, CLR17, DB16, FL16, GL18, GZ11, HQ11, HJY16, Kon18, LW12a, LWY17, Ma12, MB15, RSZZ15, SN19, WY17, WZY18, XQB13, ZFY11]. **large-dimensional** [LW12a, WY17]. **Large-sample** [ACF12]. **large-scale** [CJ10, CKW+16, HQ11, MB15, ZFY11]. **largest** [BPZ15, HPZ16, ZPG18]. **Lasso** [DGL19, LTTT14a, BTT13, BMvdG14, BB14, CY14, FK14, HSY+13, JM18a, LSST16, LTTT14b, LTTT14c, LZ14, TT11, TT12a, Was14, CL13b, MMB17, MMB18, BLT18, BCW14, SBC17]. **Latent** [CS12, CPW12a, CPW12b, GT12, LM12b, RZ12, Wai12, Yua12, AV13, BJR16, CMKR12, Jam17, Ngu13, TSP13, Xu17]. **latent-structure** [BJR16]. **latin** [WXX18]. **lattice** [WXX18]. **lava** [CHL17]. **law** [HPZ16, LAP15]. **laws** [BD15, CJ11]. **leaf** [Huc11]. **lean** [RWG19]. **Learning** [AV13, CMKR12, BK19, CZvdL17, DRZ12, FLSZ18, GK12, HS17, Han11, KY10, KP19, LR14, LYL16, LSR+17, MN10, NHM18, SFSL18, SS13, WLZ14, ZLZ18]. **Least** [Bel18b, BM14, AC11, Cha14, CF19, DH12a, GZ16b, HW19, Jac10, RV11, SS11b]. **leave** [XH12]. **leave-subject-out** [XH12]. **Lecture** [Ste11]. **left** [SW12]. **left-truncated** [SW12]. **Lehmann** [BC11b, Roj11, vZ11]. **Leibler** [CGM+13, Rig12]. **lens** [BKM16]. **Leo** [Roj11]. **Letter** [LK10]. **level** [CC18b, STY14, SLL11]. **levels** [FG18b]. **Lévy** [Bel10, Bel11, BV13, Bul14, CGC11, GLM18, Mas13, PM16b, QT19, WCT11]. **Lévy-driven** [GLM18]. **life** [Roj11]. **like** [KR11b]. **Likelihood** [Ano10, Fuh10, Jen10, TBK12, WB17, ACBL13, BLN15, BB18b, BCCZ13, CC11, CTW13, CTW16, CTW18, CZW11, DL17, DMOvH11, DM12, DFW19, DFKP19, Efr18, FY10, FR12, Fuh06, GJW10, Gro14, HR11, JY13, KR11b, LM12a, LUZ19, Li13, LC10, Mas13, MMNP15, NZL17, NBL13, QCN18, RS17, SW13, SY12, TGC+19, TW13, Uhl12, WWG19, XZC12, YFG13, YH12, ZL11c, ZYFW14, vdGB13]. **Likelihood-based** [WB17]. **lilkelihood** [RPF13]. **Limit** [DR10, JPV10, TP18, Bao19, BLRG17, DKL12, EH19a, HQ14, JY13, KNV15]. **limitations** [WMZ18]. **limited** [SO18]. **Limiting** [BCF18b, CJ11]. **Linear** [SSCL19, AcL17, AC11, CLR16, CG17, CG18, CSHvdV15, CGT16, CC18a, CLLW15, CS15, CH12, CCT17, CCTV18, CJ12, CAGPFBGM19, DP13, DPZ13, DN11, DGT16, DFS11, El 10a, FS10, FL12, FR12, FDD12, FGM17, GRSP15, Gol10, GH18, HMV13, Jan14, JP15, JMW15, JBD17, JN18, KLZ11, Kat12, KPS16, KSZ18, LYW+11, LAL11, LZL19, LLLT10, LAP15, Ma12, MS10a, Mei11, Pen13, Pen16, Pen17, Rig12, RR12, RH12, REB18, RBM19, SC15, SWDW11, SD12, SW16a, TGC+19, VV10, WXZC10, WLLC11, WXQL14, WH19, WW18, YC10, ZL11a, Zha13, ZCL16, ZBY15, ZCCL19].

link [CHM11]. **Lipschitz** [ACL19]. **Local** [ATHW12, BHMR14, BF18, BGN18, CTW16, EG12, EBGG18, FH14b, HBT16, SO18, SC13, Tru19, BW19a, Bel17, CS17, DLP12, FG18b, PDL12, Røy12, SGA11, YFG13, ZL11c, Men17]. **localization** [CLR17]. **Localized** [KNP11]. **Locally** [PR19, DM11, HYS15, PO10, RD19, Vog12, VD15, WW18, YS12]. **location** [BGvZ12, BGvZ21, Des15, dJvZ10]. **location-scale** [Des15, dJvZ10]. **log** [Des15, DW19b, DSS11, FR12, JBD17, KS16, KGS18, MM18]. **log-concave** [DW19b, DSS11, KS16, KGS18]. **log-linear** [FR12, JBD17]. **log-regularly** [Des15]. **logistic** [RWL10]. **loglinear** [LM12d]. **long** [BT17, CL08, CL10, CHI13, CGC11, LLBM$^+$11, PO10, RCL12]. **long-memory** [CHI13, PO10]. **long-range** [LLBM$^+$11]. **longitudinal** [CZ10, CLLW15, CHLP14, CHL16, JW10, JW11, JYW14, JW15, LH10b, MY10, SW12]. **longitudinal/clustered** [CHL16]. **loopy** [AV13]. **loss** [ACL19, BNST18, GPPVW12, Han19, HL13, JN18, Lep13, Zha19b]. **losses** [BJL15, MBM18]. **Low** [KR13, EvdG18, FH14a, Kol11, KLT11, LLV16, Lee13, NW11, RT11b, Zha19a]. **low-dimensional** [Lee13]. **low-rank** [EvdG18, FH14a, Kol11, KLT11, LLV16, NW11, RT11b, Zha19a]. **lower** [KP19]. **lowest** [PR16]. **LWF** [Sad16].

machine [KP19]. **machines** [DGK19, LAL11]. **made** [EW16]. **main** [Del16]. **majorization** [Yen11]. **Manifold** [GPPVW12, AL19, CV19b, CM12, WW18, YD16]. **manifolds** [ABT11, DM18, EH19a, Pen18]. **MANOVA** [BCF18b]. **many** [BCCW18, SSK14]. **Marcenko** [LAP15]. **margin** [MH13]. **Marginal** [CTW13, CTW16, RS17, STRR15, WRM19, YDS16]. **Marginalization** [Sad16]. **Margins** [Eva18, wCM19]. **Markov** [ASFJ10, Atc11, Bac11, BFT13, BDD10, BD15, CL13a, CDO11, CMW14, Chi11, DMOvH11, DM12, FLS$^+$17, FJ10, FMP11, HW16b, HJY13, KLN12, LS18, LTG16, LSR$^+$17, MDO14, Tru19, WR13]. **Markovian** [ER14]. **Markowitz** [El 10a]. **mass** [AGZ17, DW19a]. **massive** [LZL19, PBPD14, ZCL16]. **matching** [WY19]. **matrices** [BPZ15, BB16b, BSW11, BSW12, CJ11, CW19, DMO08, DG12, El 10b, FRW15, HPZ16, HLLZ19, HJY16, JLX17, JPSZ10, El 10c, LW12a, LC12, LW13, MH13, NW11, PV18, PBPD14, PY12, QC12, RT11b, SD12, SN19, WY17, ZL11b, ZBY15, ZCGZ19]. **Matrix** [CZ15a, Cha15a, ANW12b, BLPZ15, BHMR14, BW19b, CZZ10, CY12, CZ12, CLZ16, CLR17, CXW13, CGR18, CTT17, DP19, DG14b, EvdG18, FLM11, FH14a, GL18, JP15, Kol11, KLT11, Lam16, LKA10, LWY17, Min18, PWBM18, RT10, TWZ13, WZ10, Wan13, XQB13, XZ18, XW12, ZPW13, ZCCL19, Zho14a]. **matrix-** [LKA10]. **matter** [Dob17]. **maxima** [CS17, CCK13, FdH15, Koi19, SGA11]. **maximal** [Hua10a]. **Maximin** [MB15, WXX18]. **maximization** [CLX18]. **Maximum** [FY10, FR12, GJW10, Gro14, LUZ19, Li13, RPF13, TGC$^+$19, BGvZ12,

BGvZ21, BB18b, BCCZ13, CC11, CZW11, DMOvH11, DM12, DFW19, DFKP19, Efr18, FSZ18, HR11, LS10, MMNP15, QCN18, RS17, SY12, Uhl12, ZL11c, ZYFW14, vdGB13]. **Maximum-likelihood** [Li13]. **MCMC** [DP18, HJY13, Lia10]. **mean** [CY11, CZvdL17, CHI13, CW12, DW19a, DLLO16, Dic11, Huc11, LX12, LvdL16, LM19, Min18, XKB16, ZYS18]. **means** [BG13, CC17, CLZ19a, FJ10, GL12, LZ17, NC10, ZBC19, ZCX13]. **measure** [ZLLW13]. **measured** [JMW15]. **measurement** [KSZ18, TWZ13, XMW10]. **measurements** [CKW+16, ZLST17]. **measures** [BKRS19, BV13, Che19c, Ngu13]. **Measuring** [ZZX18]. **median** [CCGB17]. **mediation** [TS12]. **meets** [BLT18]. **memory** [BT17, CL08, CL10, CHI13, CLZ19b, PO10, RCL12]. **merged** [Sae19]. **Merging** [PANS14]. **message** [MMB17, MMB18]. **method** [BLN15, BHMR14, BCL11, FKLX15, FdH15, GZ11, HH13, LM12a, LM18, LBST10, MZ15]. **Methodology** [DH12a]. **methods** [ANW12a, ACBL13, AV13, BL14, BT17, BDD10, BD11, Cha15b, EW16, GCW19, KLZ11, MDO14, SHMD13, SR14, WR13]. **metrics** [GN11]. **Metropolis** [JG13, DR11, JG12, STRR15]. **microarray** [FFN10, God18]. **middle** [CW19]. **middle-scale** [CW19]. **Mimicking** [Lok17]. **Minimax** [BG13, BJNP13, CG17, CCT17, DG14b, GMRZ15, HKKR11, HMV13, ISS12, LLL19, Pen17, RLM+17, VL13, YT15, YZ16, ZZ16, BW19a, GL11, HK18, KP15, MW15, MJ15, SC16, WWG19, Zha10, Zha13]. **Minimax-optimal** [YT15]. **minimization** [BJL15, CL15b, KM10a, LZ11, Yen11]. **minimum** [VL18, YL11]. **minors** [DMO08, DG12]. **mis** [SBK16]. **mis-specification** [SBK16]. **Mises** [BK12, BG14, Bon11, CN13, CN14, CR15, Ray17, RR12]. **missing** [CZ10, LW12b]. **misspecification** [Jan14, SZ15]. **misspecified** [DM12, HIT19, JLP+16, Rig12]. **mixed** [CH12, ER14, FL12, JLP+16, RH12, SH15, STY14, SLL11]. **mixed-level** [SLL11]. **mixing** [HS17, Ler11, Ngu13]. **Mixture** [LMY18, BTWB10, HK18, Ngu13, VS19, VAC17, dJvZ10]. **mixtures** [CMZ19, HKKR11, HN16, MH11, Nor10, Rou10]. **MLE** [Jia13]. **Möbius** [HKKM10]. **modal** [CGTW16]. **mode** [DW19b, PV17]. **Model** [LKZ15, ASJ10, AGR18, AL18, AcL17, BLP19, BBFGD12, BG10, BFJ11, BMW18, BD15, CS12, CV19a, CPW12a, CPW12b, CHI14, CL13c, CGR18, Chi11, CAGPFBGM19, Des15, DN11, DGJ18, EJ10, FJY13, GD17, GT12, GJW10, Gro14, HWH13a, HWH13b, HMV13, HL13, HIT19, HSY+13, JMW15, JLP+16, KJ16, KP15, KP19, LM12b, LLL19, LS14, LW19, Ler11, LYW+11, LZA15, LJ18, LY11, Liu13, MZ15, MM18, MGC10, MMS18, PP14, QWW16, RWL10, RZ12, RPF13, RLM+17, SQ17, SZ15, SW19, SYZL14, TZ19a, TRTW18, Wai12, WXZC10, WXQL14, WB17, WH19, YDS16, Yua12, ZL11a, ZW15, Zhe13a, ZAL17, ZLK12]. **model-free** [HWH13a, HWH13b, MZ15, YDS16]. **Modeling** [HM10, JKL12, SW12, CMW14, CF16, Jam17, LY12]. **Models** [Ano10, Fuh10, Jen10, ASFJ10, ATHW12, AV13, AcL17, BL12, BL14, BD14, BB16a, BK18, BM15, BFL+18, BC11a, BF12, BS14, BCL11, BW19b, BG14,

BJR16, Bow10, BD13, BPE14, Bul14, BTWB10, CKG19, CR15, CL13a, CLSY18, CTW16, CD13, CHM11, CLLW15, CLX18, CS15, CHL16, CH12, CHZ11, DMS12, DS13, DPZ13, DG14a, DPZ19, DN11, DGT16, DMOvH11, DM12, DKZ13, DFS11, DFW19, DML10, FS10, FLM11, FL12, FL16, FLW16, FLW18, FJ19, FR12, FDD12, FZ13, Fuh06, GMZZ18, GL12, Gol10, HP18, HA13, HIT19, HR11, HHW10, IP11, Jac10, JvdG18, JFF10, JW11, JL14, JBD17, KLZ11, KLN12, KRD10, Kat13, KR11a, KPS17, KTV17, KS11, KSZ18, KMH14, KGC10, LS18, LUZ19, LMP10, LMP12a, LMP12b, LLL19, LR15, LXQ16, Lei16, LM12d, LKZ15, LZL19, LLLT10, LJ10, LJ11, LMY19].
models [LHY+12, Liu17, LW13, Ma12, MCLX15, MH16, MW16, MJ15, MMY18, NLL19, NL19, Ngu13, NL17, PBPD14, PS10, Pen19, PWBM18, RSZZ15, Rig12, RH12, REB18, RBM19, Røy12, ST19, SvdAW14, SR13, SC13, SC15, SD12, SSCL19, SBK16, SL19, SW16b, STD10, TW15, Uhl12, ULR18, VR12, VS19, VL18, VV10, VAC17, Vim10, WLLC11, WP12, WXQL14, WB17, WRM19, Xu17, XMW10, XZC12, XZ12, YLZ16, YS12, YZ16, ZL11a, ZHCC11, ZW12, ZW15, ZZ16, ZLZ12, Zhe15, ZL11c, Zhu17, Zhu19].
Moderate [Gao13, GXZ18, CSWX16, GZ11, LS10, LS13]. **moderately** [DGK19]. **modern** [BM14, BKM16]. **modified** [GZ16a]. **modularity** [Bow10, CLX18]. **modulated** [DZ14]. **Moment** [CHI13, CI11, DS13, LJ10, LJ11, WY19]. **Moments** [DMO08, DG12, BHMR14, BCL11, BMBM15]. **Monge** [CGHH17]. **monitoring** [PR12, ZH10]. **Monotone** [AS11, CLSY18, CPV17, GXZ18, GJ15, PPB16, WZ12]. **Monotonic** [Yu10]. **Monro** [BF12]. **Monte** [Atc11, BDD10, CDO11, FJ10, FMP11, GRD13, MDO14]. **most** [Joh13]. **motif** [WR13]. **motion** [ASJ10]. **moving** [DS11, JPV10]. **MSE** [NK18]. **MSE-optimal** [NK18]. **Multi** [AZ12, LJ18, BPD14, CW15, Cha17, CC18b, KLFL17, PR13, XS13]. **multi-armed** [PR13]. **multi-bandwidth** [BPD14]. **Multi-objective** [AZ12]. **multi-response** [KLFL17]. **multi-sample** [CW15]. **multi-sensor** [XS13]. **multi-stratum** [CC18b]. **multi-stream** [Cha17]. **Multi-threshold** [LJ18]. **Multiclass** [DKR18]. **multidimensional** [LPS08, LP10]. **Multilayer** [BQS18]. **multinomial** [WZY18]. **multinomials** [BW19a]. **Multiple** [ABR10b, CS17, SGA11, ZFY11, ACCP11, BCFG11, CJ10, wCM19, CHM11, Chi11, DZ14, FLRB16, Fry14, Fry18, HPŠ10a, HL18, KY10, LZ11, Li16a, Liu17, MMB11, NS11, PHW11, RBWJ19, Sae19, SF19, SS13, TS12, WZHO17, ZBFL18, ZYFW14]. **multiple-output** [HPŠ10a]. **multiplicative** [ACF12]. **multiplicity** [SB10]. **multiplier** [CCK13]. **multiresponse** [RYC19]. **Multiscale** [BHM18, PWM18, SHMD13, LLX19]. **multispiked** [OMH14]. **multistage** [Cha15b]. **multitiered** [BB16a]. **multivariance** [BKRS19]. **Multivariate** [HPŠ10a, Lep13, ZLK12, BGvZ12, BGvZ21, BW11, BSY19, BW19b, BJR16, CEdH11, CW12, CC19, DP13, DGH+19, FdHM15, JP15, OWJ11, SS11b, SW10b, YG16].

Natural [DMS13b]. **Near** [Bul16, JN18, NW11, PV17]. **Near-optimal** [Bul16]. **Near-optimality** [JN18]. **nearest** [BSY19, BCR10, Che19a, GKM16, Sam12]. **Nearly** [Por12, Zha10, Zha13]. **necessary** [ASJ10]. **Needles** [CvdV12]. **Negative** [GCW19]. **neighbor** [BCR10, GKM16]. **neighbors** [Che19a]. **neighbour** [BSY19, Sam12]. **neighbourhoods** [HW17]. **nested** [HE18, MM18, SLQ14]. **net** [BM17]. **nets** [Dic11]. **Network** [ZPL+17, ACCD11, BCL11, CW14, KTV17, Pen19, Roh19]. **networks** [ACBL13, ACV14, BB15, Eva18, LLV16, LSR+17, ZLZ12]. **Neumann** [Kol11]. **nodes** [CL15a]. **noise** [BF18, BGN18, CN13, El 10b, EW16, GNZ10, HJ10, JPV10, LLYY19, Mei11, NW11, Ray17, SH14]. **Noisy** [ANW12b, BHMR14, BJNP13, Bul14, CLM16, CLR17, CTT17, KLT11, LW12b, LMP18, Rei11, Wan13, XZ18]. **non** [CC19, LvdL16]. **non-Euclidean** [CC19]. **non-unique** [LvdL16]. **Nonasymptotic** [AL19, CCGB17, KP15, Lev15, Zhu17, ABR10a, ABR10b, FLRB13]. **noncausal** [VL18]. **Nonconcave** [XZC12]. **nonconvex** [LYL16, LW17, MBM18, WKL13, WLZ14]. **nonconvexity** [LW12b]. **nonexact** [LM12c]. **nonhighly** [JFF10]. **noninferiority** [wCM19]. **noninvertible** [VL18]. **Nonlinear** [CM12, LW12a, LS17, DS13, FKLZ15, Hua10a, Jac10, LLC13, LAL11, LTG16, MCLX15, MS10b, PP14, WP12, XMW10, YS12, ZW15]. **nonnegative** [JT15, KRS15]. **nonnormal** [TGC+19]. **nonnull** [CJ10]. **Nonparametric** [ASFJ10, AGR18, BJV17, BCZ10, BV13, CN13, wCM19, CGTW16, CHLP14, DH12b, DHZ16, DB16, Efr13, FFN10, GPPVW14, GJ15, Han19, JY11, JPSZ10, Lam16, MRS12, NS17, PTWZ18, PPB16, QT19, SS11b, SW10b, SC15, TWT17, Vog12, ZW15, Zho10, ZYFW14, APT17, BFT13, BK19, BCW14, Bul13, CN14, Cas15, CTW16, CHM11, CS15, CF16, Gao13, GXZ18, Gho15, HH13, HHW10, JMR14, Kat13, LH10b, LZL19, LJ11, LW10, LY11, LM15, MZ15, MNP19, Nic15, QP16, Rou10, RCL12, Rou15, SY12, Sch13, SvdVvZ15a, SvdVvZ15b, VS19, YT15, YPW17, YG16, dJvZ10]. **nonparametrically** [MRS12]. **nonparanormal** [XZ12]. **Nonpenalized** [WH19]. **nonregular** [BG14, LMY19]. **nonsense** [ESW17]. **nonsmooth** [CL11, Cho17]. **nonstandard** [BDS19, NBL13]. **nonstationary** [DW19a, FZ13, GRSP15, Jac10, WP12, WZ18, ZPG18, Zho10, Zho14b]. **norm** [CTP19, Cas14, KLT11, Lep13, LMP18, YG16]. **Normal** [KL17, CW12, CH12, JY13, Zho14a]. **normality** [BM17, BCCZ13, BF18, HPWW11, Loh17, RSZZ15, YFG13]. **normalization** [OR10, OB13, SB15]. **normalized** [CSWX16, TP18, Tod15]. **normalizing** [ULR18]. **Note** [Khm13, BGvZ21, DM11, FZ21]. **NP** [BFJ11, FS10]. **NP-dimensionality** [BFJ11, FS10]. **NPV** [KF11]. **Nuclear** [KLT11]. **Nuclear-norm** [KLT11]. **null** [CJ10]. **number** [BCF18a, Bon11, CTT17, LY12, LWY17, TZ19a, Wan11, WXQL14, WZY18]. **numerical** [XMW10].

objective [AZ12, MGC10]. **objects** [LKA10, Mül16, PM19, SW18]. **observation** [JN18]. **observational** [NMR17]. **observations** [BHMR14, BF18, DPZ13, DKZ17, OPP17, Rei11, SO18, SN19, XZ18]. **observed** [ASJ12, Mas13, NS17, ZJS11]. **obtain** [JG12, JG13, KP11]. **occupation** [LTT13]. **occur** [SBC17]. **off** [SS13]. **offs** [WBS16]. **Old** [FG18b]. **one** [BB10, CZ15a, JMR14, LK10, Wan10, ZPMX11]. **one-eighth** [ZPMX11]. **one-sided** [JMR14, LK10, Wan10]. **one-sixteenth** [ZPMX11]. **Online** [CCGB17, JM18b, GRSP15]. **only** [ZJS11]. **open** [Jia13]. **Operational** [LMNP17]. **operator** [VS19]. **operators** [APT17]. **opinions** [PANS14]. **Optimal** [ANW12b, BD14, BGvZ12, BGvZ21, Bel18a, BR13, BD13, BSW11, CJ10, CZZ10, CY11, CZ12, CMW13, CLZ16, CKW$^+$16, CLM16, CW15, Cha17, CK15, CCTV18, DPZ13, DS16, DPZ16, DGJ18, FJY13, FSD$^+$17, Gun12, HP10, HPV10, JM18a, LR14, Ler11, LZA15, LPK17, QWW16, Sam12, TWZ13, Wal10, WLZ14, WXX18, XKB16, Zhe13a, AZ12, Bul16, CL11, CZ18, CGM$^+$13, CCG16, CZvdL17, DRZ12, DGH$^+$19, DM11, DMS12, DMS13a, DG14a, DMG15, DKZ17, Dic11, Fel12, GLZ15, GZ15, HK18, HYS15, JJ12, KLT11, LZ17, LMY19, LPvdGT11, LvdL16, MS10b, NK18, RT11a, SH15, SW10a, SFSL18, SLL11, TL13, WY19, YS12, YT15, YPW17, Yu10, YZ16, Zha13, Zhe13b, Zhe15, ZAL17, ZvdAW19]. **optimalities** [RSZZ15]. **Optimality** [PWBM18, BLT18, BCFG11, CMZ19, FXZ14, GL11, HTX17, HYS15, JN18, MMB11, PT10, SF19, XH12]. **Optimization** [LLV16, BM14, BKM16, CS12, CPW12a, CPW12b, FKLX15, FGM17, GT12, HPŠ10a, LM12b, MH16, RZ12, Wai12, Yua12, ZLZ18]. **Optimum** [PP14, STY14]. **Optional** [WM10]. **Oracally** [WLCY14]. **Oracle** [CL13b, GL11, HSY$^+$13, KTV17, Lep13, LW19, LPvdGT11, LLLH18, ACL19, BLT18, Bel18b, DS12, FXZ14, Gol10, LM12c, Lep15]. **Order** [KA10, Bac11, Bel10, BPE14, CGY18, CL13b, DP13, DS11, DG14a, Dic11, EG12, FZ16, FZ21, Jir12, Li14, LC10, Loh15, SH15, WMZ18, YL14]. **ordered** [DP13, NC10, SW19]. **ordering** [GCW19, TWT17]. **orders** [BW11]. **ordinary** [QZ10, XMW10]. **Ornstein** [HA13]. **orthogonal** [GX14, HQ14, HT14, HCT18, LPK17]. **Osband** [FZ21, FZ16]. **other** [CGS15, El 10a, JR13]. **outcome** [LvdL16]. **outcomes** [JMW15, Lok17]. **outlier** [CL15a]. **outliers** [Des15, SC12]. **output** [HPŠ10a]. **Overcoming** [WMZ18]. **overcomplete** [Pen16].

PAC [KP19]. **pairwise** [HSRW19]. **panel** [BL14, KLZ16, Kon18]. **Parameter** [PL11, Des15, Fel12, HW16b, HN16, MS10b, MMB17, MMB18, TW13]. **parameters** [BCCW18, DN11, FSD$^+$17, Men17, QZ10, XKB16]. **Parametric** [LY11, Spo12, HSRW19, LLY18, Zhu17]. **parametricness** [LY11]. **Pareto** [SW18]. **parsimonious** [BSW12]. **Partial** [CF19, HJY16, SR14, BW11, DH12a, GH19, LYW$^+$11, WXZC10, WLLC11, WXQL14, ZL11a]. **partial-linear** [LYW$^+$11, WXZC10]. **partial-sum** [GH19]. **Partially** [SW16a, WZ12, CLLW15, CS15, DGT16, JMW15, KLZ11, LZL19, LLLT10,

Ma12, REB18, ZCL16]. **particle** [CL13a, DBCD19, WL14]. **partition** [GD17]. **partitioning** [BCDD14, GD17]. **passing** [MMB17, MMB18]. **Pastur** [LAP15]. **path** [DFKP19, SBC17, TT11]. **Pathwise** [ZLZ18]. **Pauli** [CKW+16]. **PCA** [ACV16, CZ16, JW16b, Nad16, ST16b, AW12, BJNP13, CMW13, Dob17, GZ15, JW16a, KNV15, LV15, PWBM18]. **peaks** [CS17, SGA11]. **penalization** [Kol11, KLT11]. **Penalized** [CZW11, DML10, BC11a, BPE14, CTW18, FXZ14, FG18a, FZ19, LM12a, LYL16, SQ17, TZ19b, WKL13, XZC12, vdGB13]. **penalty** [Zha10]. **Performance** [QM11]. **periodicity** [HKN18]. **periodogram** [LS10]. **Permutation** [HBZO19, ABFRB15, CR13, KR11b, MMB11, SR15]. **permutations** [Muk16]. **persistence** [FLR+14]. **perspective** [Cha14, FGM17, PV17, ZBFL18]. **Perturbation** [DGL19, ZIC12, CZ18, JP13]. **Peter** [Che16, CF16, Del16, Mül16, Sam16]. **Phase** [CY11, Che19b, JKW17, CLM16, JJ12, PZ16, SW13, WMZ18]. **phenomenon** [BDS19, CN14, DM11, TBK12, Yan10]. **phylogenetic** [DHSM18, Nye11]. **Pickands** [BDV11, EBGG18]. **piecewise** [FG18a, Tib14]. **piecewise-constant** [FG18a]. **Pivotal** [BCW14]. **planar** [CGW18, Huc11]. **plane** [HKKM10]. **planted** [GD17]. **plot** [ZDMD18]. **plus** [El 10b, HCT18, JPV10]. **Poincaré** [CCF14]. **point** [ABFRB15, Arm15, BJV17, CZ15b, Che19a, CC19, DL17, EH19b, Fry14, Fry18, HTX17, Jir15, MS10a, PZ16, SS11a, SBK16, WZY18, WXX18, XS13, ZYL18, ZvdAW19, ZYFW14]. **point-optimal** [ZvdAW19]. **points** [KPS16, KRS15, MJ18]. **Poisson** [FLRB13, Jam17]. **policies** [Kau18]. **Pólya** [WM10]. **polynomial** [DGH+19, DMS12, Tib14]. **polynomials** [CL11, WY19]. **polytopes** [WRM19]. **population** [BWY17, BPZ15, BS14]. **posed** [ISS12, Pen16]. **positions** [TSP13]. **positivity** [FLS+17, LUZ19]. **possible** [Pen13]. **possibly** [CvdV12, HIT19, JP15, LvdL16, VL18]. **post** [BLP19, BCCW18, BBB+13, LSST16]. **post-model-selection** [BLP19]. **post-regularization** [BCCW18]. **post-selection** [BBB+13, LSST16]. **Posterior** [CKG19, CvdV12, LJ11, PBPD14, Atc17, GZ15, GN11, HRSH15, LLL19, NS17, Rou10, YG16]. **posteriors** [BPY19, RS17]. **Power** [PHW11, GRD13, OMH13]. **Power-enhanced** [PHW11]. **powerful** [Joh13]. **PPV** [KF11]. **precision** [CLZ16, CXW13, GRD13, HJY16, Lam16, LC10, SN19]. **Prediction** [SL19, BFFP19, CHI13, CF19, DW18, LZW10, MM18]. **predictive** [MJ15]. **predictors** [BLP19, CFR12, GRSP15, PM19, TZ19a]. **presence** [CL15a, JT14]. **Principal** [CGY18, DM18, LAL11, Nye11, BCF18a, BBTW11, BR13, CTT17, DS13, FLW16, FWWZ19, HPV10, JW10, LZW10, LH10b, Ma13, VL13, WBS16]. **principle** [FZ16, GS10, KMS12, ZBY15, FZ21]. **prior** [Che19b, DGP18, MG11, MW16, RBWJ19, Roč18]. **priors** [CSHvdV15, GZ16a, Jam17, KvdVvZ11, NH14, RH12, Yen11, dJvZ10]. **probability** [AGZ17, DH10, LGS11]. **probably** [KP19]. **probably-approximately-correct** [KP19]. **probit** [QH19]. **problem**

[El 10a, FLRB13, Jia13, Mei11, PR13, SB10]. **problems** [ABBDL10, Ano10, BDS19, CLR16, CGS15, Fuh10, HL18, ISS12, Jen10, JKW17, KM10a, KvdVvZ11, Pen13, Pen16, PRCS16, PWM18, TT12a, WLZ14, ZYFW14]. **procedure** [BF12, DML10, LZ17, MR10, MMB11, PT10, TBM11, TBK12]. **procedures** [ACL19, BGvZ12, BGvZ21, BCFG11, CN14, DR15]. **process** [ASJ12, Bel10, BFR19, BMBM15, GWB18, JP13, JP15, RCL12, Jam17]. **processes** [ABFRB15, Bel11, BPD14, BSV14, CLOP19, CGT16, CL08, CL10, CC11, CMW14, CCK14b, CGC11, CAGPFBGM19, DL17, DW19a, DP18, DR10, FLRB13, GRSP15, GH19, HS17, JPV10, JKL12, KLJ15, LLBM$^+$11, Li13, LX12, PO10, PZ16, Por12, RBS10, RD19, TWZ13, VD15, VCC19, ZJS11, ZL11b]. **product** [LMY18]. **profile** [MH16]. **profiling** [QZ10]. **profound** [YS12]. **programming** [SH15]. **programs** [El 10a]. **Projected** [FLW16, LZL19, CAGPFBGM19]. **projection** [BBTW11, SWX19]. **projection-pursuit** [BBTW11]. **projections** [CZ15a, Lee13]. **projective** [Akr16]. **projectors** [KL17]. **proof** [BCZ$^+$15]. **propensity** [Zha19b]. **Proper** [DLP12, PDL12, EG12]. **properties** [Atc17, BG13, CDH13, DM12, HP10, HH12, KF11, LS18, LLBM$^+$11, MR10, QZ10, TA17, ZHCC11]. **Property** [NL19, BF18, CCF14]. **proportion** [CJ10, DR15, GHS14, RV11]. **proportional** [BFJ11, LZA15, Zhe13a]. **proportions** [LK10, Wan10]. **Provable** [LW12b]. **Pseudo** [ACBL13, BB18b, HR11, OPP17, STRR15]. **Pseudo-likelihood** [ACBL13]. **pseudo-marginal** [STRR15]. **pseudo-maximum** [HR11]. **pseudo-observations** [OPP17]. **pure** [BGN18, JKL12, KLJ15, TT12b, Tod15, Tod17]. **pure-jump** [KLJ15, TT12b, Tod15]. **pursuit** [BBTW11, KLFL17]. **PWM** [FdH15].

Q [GK12]. **Q-learning** [GK12]. **quadratic** [BHMR14, CCT17, DE17, El 10a, Loh15, XKB16]. **quadratically** [KJ16]. **quadrature** [BM17]. **QUADRO** [FKLX15]. **qualitative** [CCC19, SHMD13, SSL19]. **Quantifying** [JBGWS13]. **Quantile** [CL13c, CLZ19b, EL10, HWH13a, HWH13b, Hua10b, BC11a, BM14, CCG16, GLN18, Kat12, KX14, LMP10, LMP12a, LLLH18, MH16, Por12, SW16a, VCC19, YH12, ZYS18, Zha18, ZPH15, ZPH18, Zho10, ZZX18]. **Quantile-adaptive** [HWH13a, HWH13b]. **quantile-function** [CL13c]. **quantiles** [BW11, CGHH17, HPŠ10a, SW18]. **quantization** [Lev15]. **Quantum** [YFG13, BGN18, CKW$^+$16, Li14, Li16a, LMP18, NS11, Wan13]. **Quarticity** [JR13]. **Quasi** [Kat13, KM10b, Atc17, CDO11, Mas13, ZL11c]. **Quasi-Bayesian** [Kat13]. **Quasi-concave** [KM10b]. **quasi-likelihood** [Mas13]. **quasi-maximum** [ZL11c]. **quasi-Monte** [CDO11]. **quasi-posterior** [Atc17]. **quaternary** [MT13, Pho12, ZPMX11]. **quotient** [FKLX15].

Rademacher [Che19b]. **radial** [Bel17]. **radii** [WWG19]. **random** [AST12, And10, ACV14, APT17, ATW19, BKRS19, CJ11, CCC19, CD13, Che19b, CS17, CCK13, DH10, El 10b, FJ19, GL18, HL18, JP13, JG12, JG13,

KLN12, El 10c, KGC10, LX12, Loh15, LM19, Mas13, MH14, Min18, Mül16, PWBM18, PM19, SBV15, SR13, STRR15, TP18, YLZ16]. **random-walk** [JG12, JG13]. **Randomization** [BB16a, ZDMD18, HH12, MR10, PR12]. **Randomization-based** [BB16a, ZDMD18]. **randomizations** [BB16a, BB10]. **Randomized** [YPW17, AGL14, Lop19, TT18, ZH10]. **randomly** [CAGPFBGM19]. **range** [KPP11, LLBM+11]. **Rank** [HF19, BLPZ15, BHPZ19, BW19b, BSW11, BSW12, CZ15a, CTT17, EvdG18, FH14a, HPV10, JP13, Kol11, KLT11, KR13, KRS15, LLV16, LD18, LPZZ12, NW11, RT11b, SvdAW14, XZ12, Zha19a, ZvdAW19]. **rank-based** [HPV10, SvdAW14, XZ12]. **rank-one** [CZ15a]. **ranking** [DMJ13, HSRW19]. **rankings** [HM10]. **ranks** [CC17, CGHH17, IP11]. **Rao** [DR11]. **Rare** [JLX17, QCN18]. **Rare-event** [JLX17]. **Rate** [CZ18, GLZ15, GZ15, GZ16a, BC15, Dic11, DHSM18, JM18b, LZ17, Liu13, NR12, SS13, WR13]. **Rate-optimal** [CZ18, GLZ15, GZ15]. **Rates** [CL13b, GN11, Han11, Rou10, AL19, ANW12b, BW19a, Bel17, CJ10, CZZ10, CZ12, CMW13, CLZ16, CLM16, CG17, Cas14, CLN19, Gun12, HW19, HK18, HN16, HRSH15, KS16, KLT11, LLL19, LH10b, NS17, PHW11, PS10, RT11a, RW10b, WLZ14, XQB13, YZ16, ZZ16, FLRB16]. **ratio** [CL13c, JY13, KR11b, NZL17, WWG19, YFG13]. **ray** [MNP19]. **Rayleigh** [FKLX15]. **Realized** [TT12b]. **recombination** [CMW14]. **recommendation** [BCR10]. **recommender** [BQS18]. **recovering** [LZ17]. **recovery** [ANW12a, BRS19, CZ15a, CHL17, JKNP12, JN18, LM18, LZ11, LW17, OWJ11, PR16, RT10]. **rectangular** [OR10, OB13]. **recurrent** [LTG16]. **reduced** [BSW11]. **reduction** [CZC10, FKLX15, KX14, LLC13, LH10a, LAL11, LS17, LLY14, MZ13, MZZ+19, YL11]. **reductions** [CFR12]. **refinements** [CL13b]. **Refining** [ELL15]. **refitted** [CGZ18]. **regimes** [SFSL18]. **region** [SW10a]. **regions** [ABR10a, BCCW18, CEdH11, NL17, PR16]. **Regression** [ABT11, Arm15, AC11, BK19, BGvZ12, BGvZ21, Bel18b, BC11a, BCW14, BF12, BM14, BW19b, Bon11, BD13, BCZ10, BPE14, Bul13, CLX13, CG17, CG18, CCG16, CSHvdV15, CC18a, CHI14, CGS15, CHM11, CGTW16, CLZ19b, CS15, CJ12, CF19, CGZ18, DZ17, DGH+19, DH12b, DHZ16, DS13, DPZ16, DPZ19, DW18, DPZ12, DSS11, Efr13, FJR15, FZ19, FGM17, GLN18, GH18, GZ16b, HPŠ10a, HW19, HWCS19, Hua10b, HMLZ11, Jac10, JYW14, JL14, JW15, JMR14, Kat12, KS11, KPS16, KLFL17, LMP12b, LS14, LH10b, LTG16, LZL18, LW12b, LLLH18, MH16, MRS12, MS10a, Mei11, MPL15, NvdG13, NZL17, OWJ11, PM19, Por12, QH19, RYC19, RWL10, SH14, SS11a, SS11b, SW16a, TZ19b, TBM11, TLT16, TGC+19, Vog12, VCC19, WKL13, WCT11, XCL16, YH12, YT15, YD16, YPW17, YG16, YDS16, YC10]. **regression** [ZW12, Zha13, ZW15, ZPH15, ZPH18, Zhu17]. **Regressions** [Sch13, CFR12, EPFV18, Nor10, TZ19a]. **regressors** [Bon11]. **regret** [MP17]. **regular** [CEdH11]. **Regularization** [BFJ11, LM18, MN10, BCCW18, DHSM18, JY16, LW17, RYC19, WMZ18]. **Regularized** [BM15, XZ12, ACL19, Lam16, RWL10, YP15]. **regularly**

[Des15]. **reinforced** [AZ12]. **rejection** [GS10]. **Rejoinder** [CPW12b, HPŠ10b, JW16b, LTTT14b, SvdVvZ15b, LTTT14a]. **related** [Gol10, JKW17]. **Relative** [FR13, DML10, HL13]. **relatives** [FGM17]. **relaxation** [ANW12b]. **relaxations** [AL18, KNV15]. **relaxed** [AcL17]. **relevant** [DW19a]. **remedy** [BK19]. **Remembering** [vZ11]. **Rényi** [HW16a, LPS08, LP10]. **repeated** [ZLST17]. **repeatedly** [JMW15]. **replicates** [KP11]. **Reply** [Fuh10]. **representations** [CM12, DS13]. **reproducing** [AW12, LLLH18, YC10]. **Rerandomization** [MR12]. **Resampling** [KP11, ABR10a, ABR10b, BT17, GCW19]. **Residual** [CL08, CL10]. **residuals** [BSV14, GH19]. **resolution** [CLN19, GX14]. **resource** [Kau18]. **respect** [LLY14]. **response** [AGR18, BW19b, DG14a, FSD$^+$17, KLFL17, TT18, ZH10]. **response-adaptive** [AGR18, ZH10]. **responses** [Xu17, ZLK12]. **Restricted** [EKDN18, Bel18b, CGS15, LJ11, MW16, Xu17]. **results** [ABR10a, ABR10b, DE17, GHS14, LX12]. **retrieval** [CLM16]. **Reversible** [HJY13, Bac11, BFT13]. **revisited** [BB18a, FG18b]. **reward** [CZvdL17]. **Rho** [BB18a]. **Rho-estimators** [BB18a]. **Rice** [TLT16]. **Ridge** [DW18, GPPVW14]. **ridges** [CGW15]. **Riemannian** [DM18, LY19]. **Rietz** [Ste11]. **right** [SW12]. **right-censored** [SW12]. **Risk** [El 10a, BJL15, CEdH11, CGS15, CL15b, DG14b, DML10, DKR18, KM10a, LN11, MBM18]. **risks** [KJ16]. **RKHS** [SSGF13]. **RKHS-based** [SSGF13]. **RMT** [BCF18b]. **Robbins** [BF12]. **Roberts** [PT10]. **Robust** [AC11, BBTW11, BK18, CL15a, CGR18, DMS13a, EvdG18, GWB18, HW17, LZ11, LPZZ12, SEC14, CR13, EW16, EBGG18, FFB14, FH14a, Loh17, MZZ$^+$19, ZBFL18]. **Robustness** [Des15, TS12, ZYL18]. **ROC** [KF11]. **ROCKET** [BK18]. **Role** [SB15]. **Romano** [DR15]. **root** [BCW14, Dic11, Por12, ZPG18]. **root-** [Por12]. **roots** [DS11, ZvdAW19]. **ROP** [CZ15a]. **Rotation** [AST12]. **rotationally** [CPV17]. **rough** [PL11]. **rule** [BS14, CZvdL17, GKM16]. **rules** [DLP12, EG12, JM18b, PDL12, QM11].

Saddlepoint [KR11b]. **sample** [ACF12, BWY17, BPZ15, BB16b, CW15, CLSY18, CQ10, CLZ19a, DLP12, FG18b, FLRB13, Gao13, JM18a, JPSZ10, KL17, LMNP15, LMNP17, LC12, LWY17, PTWZ18, QZ10, RWG19, Sae19, Spo12, TA17, XQB13, ZBY15, ZBFL18]. **sample-based** [BWY17]. **Sampled** [AW12, BG13, CY11]. **sampler** [DBCD19, RH12]. **samples** [CL18, DMS13b, KV17, Lv13]. **Sampling** [VR19, BFR19, BLRG17, CLSY18, Cha15b, EL10, FH14b, KF11, MH13, PS10, Roh19, SW13, SR13]. **sandwich** [KH11]. **Saturated** [HYS15]. **scalable** [FL16]. **scalar** [NS17]. **scale** [AST12, And10, CJ10, CKW$^+$16, CW19, Des15, Efr13, HQ11, MB15, ZFY11, dJvZ10]. **scaled** [ZIC12]. **scaling** [NW11]. **scan** [Wal10]. **scanning** [PWM18]. **scatter** [CGR18, PV18]. **scattering** [BMBM15]. **scheme** [JN18]. **scope** [CTW18]. **score** [NHM18, Zha19b, Jin15]. **score-based** [NHM18]. **scores** [LZW10]. **scoring** [DLP12, EG12, KMH14, PDL12]. **scrambled** [BM17, Dic11]. **Screening** [RT11a, CTW13, CTW16, CHLP14, FS10, FKLZ15, Han19,

HWH13a, HWH13b, HJY16, KJF14, LPZZ12, MZ15, SEG19, Ste11, XCL16]. **SDE** [Mas13]. **SDEs** [GLM18]. **search** [BPE14]. **Second** [Li14, CGY18, DG14a, SH15, YL14]. **Second-order** [Li14, CGY18, DG14a, SH15, YL14]. **section** [BC11b]. **segmentation** [AL11, Fry14]. **Selecting** [CTT17]. **selection** [BLP19, BBFGD12, BBB+13, BKM16, BSW11, BSW12, BNST18, CS12, CKG19, CPW12a, CPW12b, CHI14, CC18b, CZC10, CL15b, CZW11, CMKR12, CD12, DML10, FL12, FFB14, GT12, GL11, HIT19, HHW10, JJ12, JL14, Jir12, KLZ11, KJ16, KS11, LM12b, LSST16, LLL19, Ler11, LKZ15, LY11, NH14, RWL10, RZ12, SW10a, SB10, SQ17, SW19, TRTW18, VAC17, Wai12, WLLC11, WXQL14, WB17, WH19, YWJ16, Yen11, YDS16, Yua12, Zha10, ZW15]. **Selective** [TT18, BC19]. **Self** [CSWX16, Tod15, ZL11c]. **Self-normalized** [CSWX16, Tod15]. **self-weighted** [ZL11c]. **Semi** [ZBC19, CC18a, CS15, LKZ15]. **semi-nonparametric** [CS15]. **Semi-supervised** [ZBC19, CC18a]. **semi-varying** [LKZ15]. **semidefinite** [AL18, KNV15]. **Semimartingale** [Bul17]. **semimartingales** [Bul16, TT12b, Tod15, Tod17]. **Semiparametric** [CLLW15, JvdG18, SvdAW14, SW16b, TS12, BF12, BK12, CR15, CTW16, CH10, DN11, DML10, EPFV18, KLZ11, LHY+12, NZL17, SYZL14, Zhu17]. **Semiparametrically** [IP11, ZvdAW19]. **semisupervised** [ASW13]. **semivarying** [CHL16, LXQ16]. **sensing** [Bul13, CJ11]. **sensitive** [ASW13]. **sensitivity** [BD11, DP18, TS12]. **sensor** [XS13]. **separability** [APT17]. **separate** [LLY18]. **separately** [CW14]. **Separation** [FLRB16, ATHW12, And10, BHM18, STD10]. **sequence** [YLZ16]. **sequences** [CvdV12]. **Sequential** [Che19a, PR12, SF19, XS13, ZH10, CGM+13, CZvdL17, Cha17, GS10, Kau18, KF11, NJ13]. **Sequentially** [BDD10]. **serial** [FR13]. **series** [BM15, BYZ10, CL08, CL10, CI11, CHI13, CGY18, CXW13, GLN18, HKN18, HIT19, HR11, JP15, KP11, LY12, LXQ16, LS10, LW10, LAP15, NBL13, PT13, Pap18, Vog12, WZ18, XW12, ZS13, ZW17, ZPG18, Zho10, Zho14b]. **set** [CQ10, Gun12, MW16, MT13]. **sets** [Bel17, CGW18, Cas15, FLR+14, FH14b, Gho15, LM15, NvdG13, Nic15, Rou15, SZ15, SvdVvZ15a, SvdVvZ15b, YG16]. **settings** [CC18a, LZW10, NMR17, WH19]. **setup** [WW18]. **several** [BD13]. **shape** [Bel18b, BG10, CLX13, CGS15, PV18, SHMD13, Vim10]. **shapes** [Huc11]. **shared** [SW16b]. **shared-frailty** [SW16b]. **Sharp** [AGL14, BW19a, Bel18b, DS12, Dob17, ACL19]. **shifted** [BG10]. **Shiryaev** [PT10]. **short** [CL08, CL10]. **shrinkage** [DGJ18, HMLZ11, LW12a, XKB16]. **shrinking** [NH14]. **sided** [JMR14, LK10, Wan10]. **Sieve** [CGT16, Pap18, XMW10, DN11, KPP11]. **Sieve-based** [CGT16]. **Signal** [CCC19, OMH14, ISS12, SQ17]. **signals** [CW15, CHL17, FG18a, HJ10, JKNP12, PV17, QCN18, Roč18]. **signed** [IP11]. **significance** [BMvdG14, BB14, CY14, FK14, LTTT14a, LTTT14b, LTTT14c, LZ14, Was14].

significant [BCF18a]. **signs** [BS14, CC17, CGHH17]. **similarity** [Liu17]. **simple** [HH13, SL19, YS12]. **Simultaneous** [FLSZ18, Jir12, LW10, LS10, WLCY14]. **simultaneously** [HL18]. **Single** [CHM11, DZ14, BLRG17, CLLW15, CHZ11, DGT16, JW11, JMW15, LS14, LYW+11, LLLT10, MH16, WXZC10]. **Single-index** [DZ14, CLLW15, CHZ11, DGT16, LS14, LYW+11, LLLT10, MH16, WXZC10]. **single-stage** [BLRG17]. **Singular** [Cha15a, CZ18, CTP19, Che19c, DG14b, GPPVW12, LWY17]. **singularities** [PV17, Pen13]. **sixteenth** [ZPMX11]. **size** [BGvZ12, BGvZ21, God18, JM18a]. **sizes** [DB16, Ma12]. **sketches** [YPW17]. **slab** [Roč18, Yen11]. **sliced** [JL14, LZL18, YDS16]. **SLOPE** [SC16, BLT18]. **small** [LM18]. **small-ball** [LM18]. **smallest** [LK10, Wan10]. **smeary** [EH19a]. **Smirnov** [FG18b]. **Smirnov-type** [FG18b]. **Smooth** [HP18, CR15, Dic11, GLN18, KR13, LMP10, LMP12a, Nor10]. **smoothed** [GJW10, Gro14]. **smoothing** [CDH13, JMW15, SC13, ZS13]. **smoothness** [Loh15, SS13]. **Solution** [Pen16, TT11]. **solutions** [LYL16]. **solve** [HL18, KNV15]. **solved** [ESW17]. **Some** [ABR10a, ABR10b, LX12, LK10, Ano10, Atc17, BCFG11, CL13a, Fuh10, HS17, HN16, Jen10, MMNP15]. **Sorted** [FZ19]. **source** [BHM18]. **sources** [Sae19]. **Space** [Ano10, Fuh10, Jen10, AL19, AST12, Fuh06, HQ14, LH10a, LLLH18, Nye11, PT13, PM16a, SLQ14, TW13, YC10]. **space-filling** [HQ14, SLQ14]. **spaced** [BLN15, Loh15]. **spaces** [AW12, CCGB17, CDO11, DLP12, DS13, GKM16, Lev15, LMY18]. **SPADES** [BTWB10]. **Sparse** [CMW13, GMZ17, KP15, LM18, Ma13, RT10, SWDW11, ACBL13, ACCP11, BM15, BFL+18, BC11a, BR13, BJNP13, CZ12, CLZ16, CEL16, CLM16, CvdV12, CSHvdV15, CW15, CZC10, CHL17, EH19b, FJY13, FRW15, FLSZ18, GMRZ15, GZ15, HJ10, Han19, HJY13, HMLZ11, JBD17, JKNP12, KTV17, KNV15, LLL19, LV15, LZ17, LSR+17, Liu17, LLLH18, MZZ+19, MJ15, MPL15, MMS18, MMY18, NMR17, NvdG13, NL17, PBPD14, RT11a, Roč18, TWZ13, VR19, VAC17, VL13, WLZ14, WBS16, XZC12, Zha13, ZW16, ZLZ18, vdGB13]. **sparse-change** [LSR+17]. **Sparsistency** [LV15]. **Sparsity** [KY10, BCFG11, CV19a, CCT17, CCTV18, HZ10, LZL18, LPvdGT11, NR12, Pen17, SC16, SS13, ZCX13]. **spatial** [BLN15, CC17, Rao18, SYZL14, Wal10]. **Spatially** [Bul13, Pen13]. **Spatially-adaptive** [Bul13]. **Spearman** [BLPZ15]. **special** [BC11b]. **specification** [HL13, LKZ15, SBK16, WP12]. **Spectral** [BLPZ15, Bel10, RCY11, AS11, DMS13b, FJ10, GD17, GNZ10, JPSZ10, JY16, KH11, KL17, LR15, RCL12, SB15, SWY15, XQB13, XZ18, ZBY15]. **Spectrum** [KV17, El 10c]. **spheres** [CPV17, DM18, EH19a]. **spherical** [HLLZ19, KNP11]. **sphericity** [OMH13]. **spike** [Roč18, Yen11]. **spike-and-slab** [Roč18]. **Spiked** [PWBM18, Che19b, DGJ18, WF17, WY17]. **spline** [JMW15, LZL19, Ma12, SC13, WZ12]. **split** [ZDMD18]. **split-plot** [ZDMD18]. **splitting** [RWG19]. **spurious** [FSZ18]. **square** [BCW14, Dic11]. **square-root** [BCW14]. **squared** [CHI13]. **Squares**

[Bel18b, AC11, Cha14, CF19, DH12a, GZ16b, HW19, Jac10, SS11b]. **stage** [BGvZ12, BGvZ21, BLRG17, TBM11]. **State** [Ano10, Fuh10, Jen10, CKW+16, CDO11, Fuh06, Wan13]. **statements** [SHMD13]. **states** [BGN18, Li16a]. **stationarity** [HBT16, Tru19]. **stationary** [CGY18, Ler11, PO10, PT13, RD19, Ver10, Vog12, VD15, XW12]. **Statist** [BGvZ21, Fuh10, Jen10]. **statistic** [LS13, SR15]. **Statistical** [BL12, BWY17, Bel11, BCR10, FH14a, Loh17, LvdL16, Rao18, WBS16, Zhu19, ANW12a, CLR17, Chi11, FLSZ18, LKA10, LLY14, WLZ14]. **Statistics** [CV19b, BLPZ15, CZ18, CTP19, Che18, DMS13b, ELL15, KR11b, Lah10, Rao18, SSGF13, Tod15, Wal10, ZBY15, Zho14b]. **status** [GJW10, GH18, TBK12, WZ12]. **stem** [HE18]. **step** [DB16, JPSZ10, Ma12]. **step-sizes** [DB16]. **Stiefel** [CV19b]. **Stochastic** [Bow10, WCT11, BCCZ13, CLX18, DP13, DB16, GWB18, Jac10, KRD10, LR15, Lei16, Lia10, RCY11, SB15, SS11a, TWT17, TA17, WB17, ZZ16, ZLZ12]. **Stolarsky** [HBZO19]. **strategies** [PS10]. **strategy** [LvdL16]. **stratum** [CC18b]. **Straw** [CvdV12]. **stream** [Cha17]. **strength** [HT14, HCT18]. **strictly** [Han19]. **Strong** [FXZ14, HCT18, HK18, EKDN18, HT14]. **Structural** [BD15, Liu17, DFS11, DFW19, FDD12, REB18, RBM19, WZ18]. **Structure** [KLZ16, LW13, ATHW12, BJR16, CJ11, CHLP14, CS15, Lep13, LW19, LKZ15, NHM18]. **structured** [RLM+17]. **structures** [FLS+17, ZCCL19, ZLST17]. **studentized** [Lah10]. **study** [ACF12, JLP+16, KP15]. **Sub** [DLLO16, LM19, Min18, GRSP15, PWBM18]. **Sub-Gaussian** [DLLO16, LM19, Min18]. **sub-linear** [GRSP15]. **sub-optimality** [PWBM18]. **subclass** [Vim10]. **subexponential** [LM12c]. **subgradient** [FGM17]. **subject** [XH12, Zhe13b]. **submatrix** [CLR17, GL18, MW15]. **submodularity** [EKDN18]. **Subsampling** [BB15, FH14b, RS12, TPN19]. **subset** [BKM16, Jia13]. **subspace** [CTP19, Pen18, SC12, SEC14, VL13]. **subspaces** [CZ18, LZ11]. **Substitution** [ZBY15]. **Successive** [OR10, OB13, ASJ12]. **Sufficient** [YL11, CZC10, CFR12, LLC13, LAL11, LS17, MZ13, MZZ+19, VR12]. **sum** [GH19]. **sums** [Bob19, CCK13, CHL17, LD18]. **sup** [Lep13, LMP18]. **sup-norm** [Lep13, LMP18]. **Super** [CLN19, BDS19, BFR19]. **super-efficiency** [BDS19]. **super-efficient** [BFR19]. **Super-resolution** [CLN19]. **supersaturated** [SLL11]. **supervised** [CC18a, FKLX15, ZBC19]. **Support** [LSR+17, LW17, MJ18, OWJ11, Gun12, LAL11, PR16]. **supported** [KJ16]. **suprema** [CCK14b]. **Supremum** [YG16, Cas14]. **Sure** [FS10, CTW13]. **surface** [DG14a, JY11]. **surfaces** [APT17]. **surrogate** [DKR18]. **survival** [wCM19, SW12]. **symmetric** [CPV17, IP11]. **symmetries** [GL12]. **systematic** [Kon18]. **systems** [BQS18, HS17, MMNP15].

Table [Ano16d, Ano16e, Ano16f, Ano17b]. **tables** [BB10]. **Tail** [Fry18, CEKL15, EKS12]. **Tail-greedy** [Fry18]. **tailed** [BJL15, HW19, Min18]. **tailored** [Zha19b]. **tangent** [AL19]. **Targeted**

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