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Title word cross-reference

3 [BDP12, JLH19, TDVC13]. 6 [FDE15]. ²
[FGL17]. *K*
[GQY⁺19, PKCC18, THY⁺11, ZLZ⁺17]. *N*
[DOTD16, MG16, EK15]. *P* [SSV19].

-Means [PKCC18]. -Nearest [GQY⁺19].
-Values [SSV19].

2018 [ZSLC19]. 2nd [SY12].

Abandonment [POM20]. **Abduction**
[SSS11, SDS12]. **abnormality** [SSZ⁺13].
Abstraction [ABB⁺15, TRH12].
abstractive [CL13]. **Abuse** [YL17].
Academic [YLC⁺19]. **Accelerated** [BC19].

Access [HTSC⁺17, SCLZ17, YTH17].
Accessible [WLH10]. **Accounting** [Hec19].
accuracy [GJ13]. **Accurate**
[HCJM15, JJ15, TC19]. **ACM**
[AJL18, CKW19, CL15, LN10, Yan10,
ZSLC19, ZLB⁺16, ZWGW17]. **ACML**
[SY12]. **ACP** [WW13]. **Acquisition**
[JPS⁺16, BPS13]. **across** [DCM15, FC15,
Min16, TS17, YDZ20, dMFA⁺13]. **Action**
[ZCG15, Zhu19]. **Active** [ERR13, LLLC19,
LCC⁺20, RV18, SZT12, WH11b, ZCWZ18].
Activities
[ADJ⁺20, HL19, RYS10, ZNYH11]. **Activity**
[FGL17, HRCT16, KHNB15, LZ⁺16,
PEK⁺16, SMX15, SS11, YDZ20, HLJ11,
RC13, WLG11, ZPY11]. **Adaptation**
[BC19, MMS17, PS11, WCF⁺20, WYNW20].
Adaptive [AKR⁺18, CDLV13, CCZ⁺15,

GKG⁺¹¹, HS19, LCM⁺¹², RXK⁺¹⁷, OY13]. **Additive** [WYC⁺¹⁷]. **Addressing** [HGE17]. **Ads** [BB15]. **Adult** [OLY⁺¹⁷]. **Advanced** [PMR⁺¹⁷]. **Advances** [QCL15, ZGL⁺¹⁷]. **Adversarial** [LXJ⁺²⁰, SSG⁺²⁰, SDS12, ZSAL20, ZFQX20]. **Adverse** [SGJC18, YY15]. **Advertisement** [CWCK15]. **Advertising** [ABG⁺¹¹, CMR15, SA15, ZWXZ12]. **advisors** [ZC13]. **AEGIS** [EBG⁺¹²]. **Affiliation** [VNL⁺¹¹]. **Affinity** [LCN⁺¹⁶]. **Age** [LGZ⁺¹⁷]. **Agent** [CRRH11, GKG⁺¹¹, GDC19, RVRJ11, SS11, Zhu19, CABD13, CAB⁺¹³, EvdHW13, NOZ20]. **Agent-Based** [CRRH11, RVRJ11]. **agents** [OSM⁺¹³]. **Aggregate** [MG16]. **Aggregation** [ODL⁺²⁰]. **Aggressive** [LSZH18]. **aging** [CDS13]. **AI** [LN10]. **Air** [ASSR18, GME17, LLL⁺¹⁸, BKB10]. **Airline** [ACPS17, GG15]. **alarm** [DL13]. **ALERA** [BC19]. **Alert** [SSG⁺²⁰]. **Algorithm** [JJ15, MGS17b, SSV19, WCBL18]. **Algorithms** [BSRSS16, BFC⁺¹⁷, PFS17, SHB⁺¹², ZFH⁺¹⁸, GPSB11, OSM⁺¹³]. **Alignment** [LWVL11, RSCOVMM17, BMV13]. **All-Pay** [LDTX16]. **Allocation** [DPC16, NOZ20, RK15, WZY⁺¹⁸, LZCS11]. **Alternating** [CYYL18]. **Alternative** [RKH14]. **Alternatives** [ARGK15]. **Ambiguity** [JSL⁺¹⁹]. **American** [ZZZ20a]. **Analogical** [LCY⁺¹⁸]. **Analysis** [BTL20, BCGJ11, CWR⁺¹⁶, CCW⁺¹⁹, CDW⁺¹⁹, DWKP16, EMF12, FSS15, FLLX18, GOB⁺¹², HM19, HWCL17, LS16, LGL⁺¹⁶, LCLN18, LZCQ12, LZP⁺¹², LYWH20, MPA13, MMDY15, NAPI14, ODL⁺²⁰, PT12, PHL⁺²⁰, PCL18, RHD⁺¹², STP⁺¹⁸, XZH⁺¹⁷, YY15, YL17, YCGH12, ZSLC19, ZDL⁺¹², ZWL⁺¹⁵, ZWL⁺¹⁹, GXZ⁺¹¹, OY13, ZNYH11]. **Analysts** [GJSC16, GJC17]. **Analytics** [CKW19, JGL⁺¹⁵, JLX⁺¹⁷, NZW⁺¹⁷, PHL⁺²⁰, XZXM19, ZW19]. **Analyzing** [ADJ⁺²⁰, CCWS17, HTSC⁺¹⁷, KHNB15, dMFA⁺¹³]. **animal** [LHJ⁺¹¹]. **Animation** [YZL⁺¹⁹]. **Anisotropic** [LGZ⁺¹⁷]. **annotated** [HY11]. **Annotation** [CLBM15, HDPH16, HYC⁺¹⁶, KAH⁺¹⁶, LCN⁺¹⁶, TTLG17, TS17, WFJY12, SZC11, THY⁺¹¹, WH11b, YCP⁺¹³]. **Anomaly** [HKMN20, KW17, MWS⁺¹⁸]. **Anonymous** [WMR17, XZW⁺¹⁵]. **Answering** [GH18, TPG⁺¹⁹]. **anti** [BKB10]. **anti-air** [BKB10]. **Anytime** [BSRSS16]. **App** [FLLX18]. **Appearance** [ZYSL12, LHS⁺¹³]. **Application** [DWKP16, DBDM16, LLLC19, Min16, XZH⁺¹⁷, YFJ⁺¹⁸, ZWZS16, ZZZ⁺¹⁹, CKS10, YJHL11]. **Applications** [AKR⁺¹⁸, BCGJ11, PFS17, SYHB17, WZS⁺¹⁵, WZYM19, XKW⁺¹⁶, YLCT19, ZFH⁺¹⁸, ZCWY14b, Che10, Gin13, KG11, Lin11]. **Applying** [JCH14, PCC10]. **Approach** [ASSR18, BTL20, CGZ18, DWKP16, FDE15, GRR⁺¹⁵, HL17, HBL16, HWT17, KKG18, KZL⁺¹⁷, KPF18, KSL⁺¹⁵, LYW⁺¹⁹, LYWW18, LDTX16, MJVL16, MRJ16, ODF17, ODP⁺¹⁷, PCF⁺¹⁹, PPPM18, XXL⁺¹⁷, ZDL⁺¹², ZC15, ZFWL17, ZWL⁺¹⁹, BBMP13, BVCH13, BSW⁺¹³, BGMS13a, CL13, LHG11, LHC⁺¹³, RYS10, TDVC13, WW13]. **Approaches** [LC15, LCLG19, RZS⁺¹⁵, ZSLC19, PMSR11]. **approximation** [TNSP13]. **Apps** [WMR17]. **Architecture** [ZSY⁺¹²]. **Architectures** [HTSC⁺¹⁷]. **area** [SSZ⁺¹³]. **array** [RFI⁺¹¹]. **Arrivals** [DPC16]. **Arriving** [CGZ18]. **ART** [EvdHW13]. **Articles** [SRB15]. **Artificial** [CC12]. **As-You-Type** [LCV17]. **Asia** [SY12]. **Assess** [PPPM18]. **Assessment** [HMS⁺¹⁴, MRJ16]. **Assignment** [TTFS18]. **assistance** [BGPYS11]. **Assisted** [SMGMC⁺¹⁵, TRZ⁺¹⁹]. **Associating** [UAS15]. **Association** [GLL⁺¹⁷, HCCY15, YY15]. **Association-Based** [GLL⁺¹⁷, HCCY15].

Attack [GME17, HNA20, WMA20]. **Attacks** [ODP⁺17, ZSAL20]. **Attention** [LYWW18, MGJW20, WJY⁺18, YFJ⁺18, WYNW20]. **Attention-Based** [LYWW18, WJY⁺18, MGJW20]. **Attentive** [ZFQX20]. **Attitude** [NAPI14]. **Attribute** [GTM⁺14]. **Attributes** [NZW⁺17, WLH17]. **Auction** [LDTX16]. **Auctions** [QCL15]. **Audio** [DCM15, RSCOVCM17, SHZ13, WCBK11]. **Audio-to-Score** [RSCOVCM17]. **augment** [ZDC⁺13]. **Augmentation** [ZB20]. **Augmented** [CSN⁺17, ZZD⁺17]. **Authentication** [ZYH⁺20]. **Authoring** [LMAP16, WFJY12]. **Authorities** [BR15]. **Authority** [CCWS17]. **Auto** [DB16, LCY⁺15]. **Auto-Experimentation** [DB16]. **Auto-Generated** [LCY⁺15]. **Autoencoder** [ZCL⁺18]. **AutoLCA** [HMS⁺14]. **Automated** [DB16, EBG⁺12, JD15, SDHS15, Che10, WHJ⁺11]. **Automatic** [CLBM15, KW17, LGZ⁺17, LCLN18, Pac17, TLWZ11, ZSLC19, ZZZ⁺19, TDVC13]. **Automotive** [ZWL⁺19]. **Autonomous** [JLJ⁺20]. **Auxiliary** [CWC⁺20, VNL⁺11, ZBZX12, PG13]. **Average** [CDGZ16, SDXG16]. **Aware** [AC15, DCF⁺18, FXHM16, JYT⁺12, LCV17, LJC⁺11, PEK⁺16, YZL⁺19, YTH17, ZSL⁺15, ZFWL17, ZCX⁺15, BGMS13a, CKS10, LHZ13, SLH13, TC19, WPL13, YZEC13, ZFQX20].

Background [CCH15]. **Balanced** [LYW⁺19]. **Balancing** [HS19]. **Ballet** [KSL⁺15]. **BAMB** [LYW⁺19]. **Bargaining** [HDTG15, KAH12]. **Based** [ACPS17, ABO17, ASSR18, BBM17, BDP12, CGZ18, CUG⁺12, CZP⁺14, CYKL16, CRRH11, CDW⁺19, DJI⁺16, DOTD16, DTL15, EK15, EL14, FDE15, FZX15, GLL⁺17, GRR⁺15, HCCY15, HDPH16, HKMN20, HLL14, HMCW15, HTL⁺20, JJ14, JJ15, JGL⁺15, KW17, KPF18, LCD17, LHS18, LCD18, LBP19, LZP⁺12, LTS⁺15, LYWW18, LWWX20, MFI19, MRJ16, NYBG17, PMR⁺17, Pat15, RHD⁺12, SKF⁺14, ST19, SRJP12, WSGM14, WJY⁺18, WMR17, XTW17, YZQ16, YMC16, YTH17, ZYSL12, ZWH17, ZL19, ZZZ⁺11, ZCG15, ZZKT20, CFG13, CDS13, GJ13, GQY⁺19, HM19, HLT11, HKO13, LSQ11, LCC⁺20, LAS20, MGJW20, ME13, NOZ20, RVRJ11, RC13, RYS10, SGTK20, SGD13, TDVC13, THY⁺11, TAL⁺19, TNSP13, WCS⁺20, YJHL11, ZC15, LHC⁺13]. **Baseline** [WTK⁺19]. **basis** [Sin13]. **Batch** [GPSB11, RV18, SZT12]. **Batch-Mode** [RV18]. **Bayes** [LAS20]. **Bayesian** [HRCT16, JWJC16, KPF18, SLR⁺16, VKA⁺19]. **BayesPiles** [VKA⁺19]. **Beats** [WYM17]. **Behavior** [AC15, DSB⁺18, HDPH16, HL17, LAsO⁺19, LZ18, NYBG17, ODP⁺17, PYD⁺17, YZQ16, YLC⁺19, YKTL14, ZYW⁺15, ZLH18, OY13, ZC13, dMFA⁺13]. **Behavior-Based** [HDPH16]. **Behavioral** [LCLN18, YNS13]. **behavioral-cultural** [YNS13]. **Behaviors** [CHP17]. **Behaviour** [GDC19]. **belief** [TDVC13]. **Ben** [BI17]. **Ben-Israel** [BI17]. **benchmark** [VDL⁺19]. **Benchmarking** [CSTZ16, DJS16, DBDM16]. **Benefits** [CCL15]. **Berkeley** [FLF⁺20]. **Bernstein** [ZS18]. **Better** [AT15, LJLZ19]. **between** [CRYT12, GME17, ODP⁺17, RKH14]. **Beyond** [BBS⁺16]. **Bézier** [ZS18]. **Bi** [CHY15]. **Bi-Histogram** [CHY15]. **bias** [BNS13]. **Biased** [RK15]. **Bibliographic** [WXZ⁺16]. **Bid** [BB15]. **bids** [ZC13]. **Big** [JLX⁺17]. **Bike** [EL14]. **Binarization** [MFI19]. **Binarized** [GWDJ15]. **Binary** [SDXG16]. **biological** [BVK10]. **biomass** [CGMC11]. **Biometric** [ZYH⁺20]. **Bipartite** [UAS15]. **BISTRO** [FLF⁺20]. **Blackmarket** [ADJ⁺20]. **Blanket** [LYW⁺19]. **Blau** [JCH14, JCH14]. **Blockmodel** [TY14]. **Bookmarking**

[DJS16]. **Bookmarks** [TRDD12]. **Boosted** [MFI19]. **boosting** [DSM⁺11]. **Bootstrapping** [BL16, HB12, HLNL18]. **Both** [CGZ18, Zhu19]. **Bound** [ODF17]. **Bounded** [LSZH18]. **Bounds** [LG16, SDXG16]. **Bracelets** [YLS15]. **Brainwaves** [ZYH⁺20]. **Breathing** [WYM17]. **Bridges** [DSB⁺18]. **Bridging** [GME17]. **Broadband** [LZY⁺16]. **broadcast** [TLWZ11]. **browse** [JPL13]. **Browsing** [AC15, NYBG17, TRH12]. **Budget** [ZSL⁺15]. **Building** [EvdHW13]. **Buildings** [GRR⁺15]. **Bulk** [ZZC⁺20]. **Business** [BCGJ11, PSRL12, VDL⁺19, Lin11, MMC⁺13]. **Buying** [BB15, ZC13].

calculus [MMC⁺13]. **calendaring** [BGPYS11]. **Calibrated** [LC15]. **Camera** [LXM⁺18, ZLT15]. **Cameras** [MZL12]. **Campaign** [LCCS13]. **Campus** [YLC⁺19]. **Campuses** [WMR17]. **Can** [SSG⁺20]. **Candidate** [RKH14, RK15]. **Candidates** [CCH15]. **Capture** [LCKY14]. **CapVis** [LJLZ19]. **Car** [NTM⁺16]. **cardiopulmonary** [BCC⁺13]. **Carefulness** [FXR⁺17]. **Caregivers** [CCL15]. **Carved** [LC15]. **Case** [EL14, KAH⁺16, MOC⁺11, PHL⁺20, Dha11, EvdHW13]. **Cash** [ZZZ⁺19]. **Cash-Out** [ZZZ⁺19]. **categories** [FPVC13]. **categorization** [TDVC13]. **Category** [SP16]. **Causal** [CDGZ16, FNS16, HM19, HBL16, LLL⁺16, LLX⁺20, LC16, LCLG19, SDXG16, WC12, ZWZS16, ZLB⁺16, ZZGH19]. **Causality** [FZ16, ZNYH11]. **Cause** [Hec19, LCLG19]. **Causes** [Hec19]. **CAVE** [KSL⁺15]. **Center** [ZZL⁺19]. **Center-dark** [ZZL⁺19]. **Centers** [HWCL17, PMSR11]. **Centric** [KKG18, ZZZ⁺11, CCW⁺19]. **Chains** [LAsO⁺19]. **Challenge** [ZSLC19]. **Challenges** [HGE17, ZFH⁺18]. **Change** [WPA⁺12]. **changes** [SKOM13]. **Channel** [ZZL⁺19]. **Characterization** [ABB⁺15]. **Characterizing** [YFJ⁺18]. **Charging** [MBR⁺14, WZS⁺20]. **chatting** [HLJ11]. **Cheating** [LSW⁺20]. **Check** [HWT17, JCH14, LX14, SMX15, YKTL14]. **Check-In** [HWT17, LX14, SMX15, YKTL14]. **Check-ins** [JCH14]. **Children** [YLS15]. **chiller** [PMSR11]. **Chinese** [ZDC⁺13]. **Choice** [HTSC⁺17, LXJ⁺20, OY13]. **Choosing** [RKH14, RK15]. **CIM** [CZP⁺14]. **Citation** [KSKÇ15]. **Cities** [ABO17]. **Citizen** [YMLM16]. **Citizen-Sourcing** [YMLM16]. **City** [ABTS15, JCH14, MFLP14, YMLM16, ZQP⁺15, ZLH18, YMLM16]. **City-Scale** [MFLP14, ZQP⁺15]. **Class** [AKR⁺18, BLAK19, JSL⁺19, WHC13]. **Classification** [BTTT19, BLAK19, DTL15, GZZY17, HWL⁺17, KCS18, LCY⁺18, MRW⁺12, MG16, SKF⁺14, WMH18, ZLZ⁺17, GPSB11, SHZ13, WHC13]. **Classifier** [GQY⁺19, HLT11]. **classifying** [BVCH13]. **Clearing** [NOZ20]. **Clearing-based** [NOZ20]. **CLEaVER** [LNO⁺18]. **Click** [AC15, CWCK15]. **clinical** [LKD13]. **Closer** [Wid17]. **Cloud** [CUG⁺12, HTM15, JPS⁺16]. **Cluster** [JJ14, LAsO⁺19]. **Cluster-Based** [JJ14]. **Clustering** [EL14, HCTC12, KLLL20, KPF18, TRDD12, ZL12, ZWZ⁺19, LMWS13]. **Clusters** [Pat15]. **CNN** [SGTK20, WJY⁺18]. **CNN-based** [SGTK20]. **CNNs** [ST19]. **Co** [KCS18, KLLL20, LLF⁺19, ZFH⁺18]. **Co-Clustering** [KLLL20]. **Co-Saliency** [ZFH⁺18, LLF⁺19]. **Co-Training** [KCS18]. **coaching** [LLWC13]. **Coalition** [BFC⁺17]. **Coalitions** [PMR⁺17, FT10]. **Coarse** [OLY⁺17]. **CoClustering** [HMCW15]. **Coding** [FWZ17, ZYSL12]. **CoFi** [LPM20]. **CoFi-points** [LPM20]. **Cognitive** [LWC⁺18]. **Cold** [LHS18]. **Cold-Start** [LHS18]. **Collaboration** [MOC⁺11, SRB15]. **Collaborative** [CSN⁺17, FS17, JJ14, LPM20, ST20,

WSGM14, BCD⁺¹³, ERR13, LHZ13].
Collection [HB12, YJHL11].
Collection-based [YJHL11]. **Collections** [TRH12]. **Collective** [GST12, WFZ⁺¹⁸, YZQ16]. **College** [WMR17, YLC⁺¹⁹, BSW⁺¹³]. **Collocation** [LWWL11]. **Collusive** [ADJ⁺²⁰].
colocation [WCBK11]. **Colonography** [MMDY15]. **Color** [CCZ⁺¹⁵, WH11a].
Color-Guided [CCZ⁺¹⁵]. **colorblindness** [WLH10]. **COM** [RC13]. **Combating** [SQJ⁺¹⁹]. **Combination** [HYL⁺¹⁸].
Combined [FDE15]. **Combining** [LFL⁺²⁰, SPDR15]. **Comfort** [ASSR18].
Comfort-Based [ASSR18]. **commentary** [WW13]. **Comments** [GW17].
Commentsphere [PSLB12]. **Commercial** [ZZZ20a]. **Commitment** [POM20, BBMP13]. **Commodities** [ZZC⁺²⁰]. **Commodity** [WYM17].
Common [Hec19]. **Commonsense** [HB12].
Communication [CHP17, CABD13, CAB⁺¹³]. **Communities** [BR15, CCWS17, TY14, YL14].
Community [BBM17, CZP⁺¹⁴, CBP13, JLJ⁺²⁰, KLL17, KLLL20, PBvL14, TPG⁺¹⁹, WFZ⁺¹⁸, WLH17, YCGH12, ZNWC14, ZMH⁺¹⁵, Goo10].
Community-Based [CZP⁺¹⁴]. **companion** [TZY⁺¹³]. **Comparison** [VDL⁺¹⁹, BCD⁺¹³]. **Completion** [ZWH17].
Complex [ASW⁺¹⁹, JPS⁺¹⁶, ZSY⁺¹²].
Complier [CDGZ16]. **Component** [LGL⁺¹⁶, LYWH20]. **Comprehension** [LXJ⁺²⁰]. **Comprehensive** [DT16, KZL⁺¹⁷]. **Compression** [DLGT19, YZL⁺¹⁹, CL13]. **Computation** [NTM⁺¹⁶, YCP⁺¹³]. **Computational** [GST12, GY11, WCBK11].
Computationally [FTCP⁺¹³].
Computations [RHF16]. **Computing** [DB16, HTM15, KP17, NDW⁺¹⁹, SRMW19, ZCWY14a, ZCWY14b, ZDW19, LN10, YNS13, YZEC13]. **Con** [Wid17]. **Concept** [JTZ⁺¹¹, LWH12, LJC⁺¹¹, WJY⁺¹⁸, YLCT19, CZLS13, SLWW13]. **Concepts** [ZCWY14b]. **Conceptual** [HAAM12].
concurrent [HLJ11]. **Conditional** [WYNW20, ZZGH19]. **Conditioning** [ASSR18]. **Conditions** [SGJC18]. **Cone** [TTLG17]. **Conference** [SY12, CXW⁺¹³].
Confidence [ODF17, WZH16].
Confidence-Weighted [WZH16].
Configurations [HTM15, CCG⁺¹³].
conformant [TNSP13]. **Connected** [SRMW19]. **Connecting** [CXW⁺¹³].
Conquer [PKCC18, WMH18]. **Conscious** [WLC⁺²⁰]. **consider** [ZC13]. **Considering** [CGZ18]. **Consistency** [LJLZ19, ZCS⁺¹²].
Consistent [FWZ17, FDE15].
Constitutive [BBMP13]. **Constrained** [BFC⁺¹⁷]. **Constrains** [WLL⁺²⁰].
Constraint [ODF17, RYS10].
constraint-based [RYS10]. **Constraints** [LCD18, ZS18, ZSL⁺¹⁵, MMC⁺¹³, PCC10].
Constraints-Based [LCD18].
Construction [KW17, PKCC18].
Consumer [YY15, ZT11]. **Consumption** [LasO⁺¹⁹]. **Content** [BLL⁺¹⁴, CRYT12, CCC⁺¹², EMF12, SDD⁺¹⁶, YWZ⁺¹⁷, ZZZ⁺¹¹, CCL13].
Content-Centric [ZZZ⁺¹¹].
content-driven [CCL13]. **Context** [FXHM16, JYT⁺¹², LCCT12, LCKY14, LJC⁺¹¹, ZCX⁺¹⁵, BGMS13a, LHZ13, ME13, SBD13, SRM⁺¹³, SLH13]. **Context-Aware** [FXHM16, JYT⁺¹², LJC⁺¹¹, ZCX⁺¹⁵, BGMS13a, SLH13]. **Context-Free** [LCKY14]. **Context-Sensing** [LCCT12].
Contextual [ABG⁺¹¹, CHHH18, SLH13].
Contextualized [SC17]. **Continuation** [ZSLC19]. **Continuous** [DWKP16, HKMN20, LG16]. **Contracts** [CWCK15]. **contrarian** [HLT11].
Contributed [YY15]. **contribution** [BMV13]. **Control** [BC19, HDPH16, HTSC⁺¹⁷, KW17, PMR⁺¹⁷, YTH17, PCC10, RVRJ11].

Controlling [SSV19]. **Controversial** [SRB15]. **conversation** [WCBK11]. **Conveying** [HNV14]. **Convolution** [ZDW19]. **Convolutional** [JLH19, LCJ⁺19, WTL20]. **Coordinates** [CDS12]. **Copula** [HKMN20]. **Copula-Based** [HKMN20]. **CORALS** [BKB10]. **Coranking** [WXZ⁺16]. **coreference** [CST13]. **Cores** [DJS16]. **CORN** [LHG11]. **Corpora** [CDS12, GOB⁺12]. **Corpus** [TRDD12]. **Correlated** [BLAK19]. **Correlation** [CPHL15, LHG11, LSW⁺20, SST⁺15]. **Correlation-driven** [LHG11]. **Correlations** [WZY⁺18, YSN⁺17, TEP11]. **Correspondence** [PS11]. **Cost** [BL16, HWCL17, WZY⁺18, ZZZ⁺20b, BD11, LHC⁺13]. **Cost-Effective** [WZY⁺18]. **Cost-Optimized** [HWCL17]. **cost-sensitive** [LHC⁺13]. **costly** [WH10]. **Count** [EL14]. **Counterfactual** [HM19]. **counterinsurgency** [HKO13]. **Counterterrorism** [SDHS15]. **Counting** [MZL12]. **cover** [MGB⁺11]. **Coverage** [WLC⁺16, YMC16]. **CpA** [TNSP13]. **CRADLE** [MGS17b]. **crater** [DSM⁺11]. **criminal** [TEP11]. **crisis** [Goo10]. **criteria** [LKD13]. **Criterion** [ZCWZ18]. **CRM** [NTM⁺16]. **Cross** [HWCL17, LHS18, PS11, VDL⁺19, WZZ⁺16, ZNWC14, ZZC⁺20, PG13]. **Cross-benchmark** [VDL⁺19]. **Cross-Domain** [LHS18, ZZC⁺20]. **cross-level** [PG13]. **Cross-Lingual** [PS11]. **Cross-Media** [HWCL17, WZZ⁺16]. **Cross-Region** [ZNWC14]. **Crowd** [ABO17, BL16, CALK16, DB16, GCY⁺15, KCTT16, SNL⁺16, SLR⁺16]. **Crowd-Mobility** [ABO17]. **Crowd-Powered** [SNL⁺16]. **Crowdedness** [DCF⁺18]. **Crowdedness-Aware** [DCF⁺18]. **Crowds** [KF18, FK13]. **Crowdsensing** [WZY⁺18, XZW⁺15]. **Crowdsource** [MRJ16]. **Crowdsource-Based** [MRJ16]. **Crowdsourced** [ZLH18]. **Crowdsourcing** [CWR⁺16, CCK⁺18, FS17, HDPH16, HTL⁺20, KAH⁺16, LDTX16, RFJ16, SLR⁺16, TTFS18, BPS13, RBK⁺13]. **CSM** [JPS⁺16]. **CSOC** [SGJC18]. **CUDIA** [PG13]. **Cultural** [YZQ16, Bai10, LN10, YNS13]. **Cultures** [GKG⁺11, KF18]. **Curriculum** [GYT19]. **Curve** [PHL⁺20]. **Curves** [ZS18]. **Customer** [PSRL12, GXZ⁺11]. **Customized** [LMWS13]. **Cyber** [GME17, HGE17, MWS⁺18, ODP⁺17, SSG⁺20, TAL⁺19, ZDW19]. **Cyber-Alert** [SSG⁺20]. **Cyber-Attack** [GME17]. **Cyber-Physical** [MWS⁺18, TAL⁺19]. **Cybersecurity** [GJSC16, GJC17].

D [FDE15, BDP12, CCW⁺19, FDE15, HYZ15, JLH19, TDVC13, ZYT⁺15, ZSS⁺15, ZLT15]. **D-Map** [CCW⁺19]. **Daehr** [XZH⁺17]. **Daily** [LCLN18]. **Dance** [KSL⁺15]. **dark** [ZZL⁺19]. **Data** [ACPS17, ABO17, BMTT16, BTTT19, BLNN20, CXW⁺19, CTY⁺19, DOTD16, DGZ15, FE15, FNS16, Hec19, HTM15, HKMN20, HLL14, HWCL17, HWT17, JLX⁺17, JSL⁺19, LWH12, LLX⁺20, LM11, LC16, LZY⁺16, Min16, ODP⁺17, PFS17, PCF⁺19, PPPM18, PCC17, RV18, SCLZ17, SZT12, SS15, TRZ⁺19, WC12, WTK⁺19, WCS⁺20, XZXM19, XZH⁺17, YY15, YZQ16, ZWL⁺15, ZYH⁺17, ZLH18, ZW19, ZWL⁺19, Zhe15, ZBZX12, ZZC⁺20, ZWGW17, AAX13, BVCH13, BK11, CDK⁺13, KDC13, LHJ⁺11, LZCS11, MGB⁺11, PMSR11, TZY⁺13, YCP⁺13]. **Data-Driven** [ACPS17, ODP⁺17, SCLZ17, ZWGW17, PCF⁺19]. **Database** [KAH⁺16]. **Databases** [MMDY15]. **Dataset** [DBDM16]. **Datasets** [FE15, XZS20, YDZ20]. **DCclusterE** [ZL12]. **Dealing** [WHR13, YL17]. **Deanonymization** [FZX15]. **Death**

[SDXG16]. **Decay** [Pai16]. **Decentralized** [HBK⁺16]. **Decision** [BWC15, ZZZ⁺20b, KDC13]. **Decoding** [ZYH⁺20]. **Decomposition** [BWC15, HBK⁺16, RSCOVCM17, WYM17]. **decoupled** [BBMP13]. **Deduplication** [LLC19]. **Deep** [CDW⁺19, DLGT19, LYWH20, LWWX20, NDW⁺19, OLY⁺17, TLW⁺15, ZGP⁺18, ZZZ⁺19, ZSAL20, ZYH⁺20]. **Deep-learning** [ZSAL20]. **DeepKey** [ZYH⁺20]. **DeepTracker** [LCJ⁺19]. **Defense** [WMA20, BKB10]. **Degradation** [BC19]. **Delays** [BMTT16]. **Demand** [HS19]. **Demonstration** [ZSY⁺12]. **Density** [HTL⁺20, LC15, LSQ11, SSZ⁺13]. **density-based** [LSQ11]. **Dependence** [GDC19]. **Dependent** [WZZ⁺16, RCN10]. **Deployment** [SCLZ17]. **Depth** [CCZ⁺15, ZCG15]. **Depth-Based** [ZCG15]. **Depth-Selective** [CCZ⁺15]. **Describe** [LH12]. **Description** [PBvL14, OY13]. **Description-Driven** [PBvL14]. **Descriptive** [FZX15]. **Descriptor** [GWDJ15]. **Design** [HDPH16, LDTX16, MGSK19, MBR⁺14, SMGMC⁺15, CCG⁺13]. **Designing** [MJVL16]. **Detect** [YY15, MSSV11]. **Detecting** [ADJ⁺20, CCWS17, HM19, SKOM13, TY14, LMC⁺15]. **Detection** [BBM17, CCH15, FXR⁺17, HNA20, JLJ⁺20, KZL⁺17, KLL17, KLL20, KW17, LLF⁺19, LC15, LSW⁺20, MGJW20, MRW⁺12, MFI19, MWS⁺18, POM20, PBvL14, WPA⁺12, WLH17, XZH⁺17, ZQP⁺15, ZLT15, ZLY⁺18, ZFH⁺18, ZZZ⁺19, ZZL⁺19, CDS13, CBP13, SSZ⁺13]. **Detector** [JYT⁺12, SGTK20]. **Development** [CRRH11, CDR19]. **Developments** [ZGP⁺18]. **Device** [GWDJ15]. **Devices** [TAL⁺19, ZZZ20a]. **DHPA** [PHL⁺20]. **Diagnosis** [AGP17, LWC⁺18]. **Diagram** [SPDR15]. **Dialogue** [ZFXQ20]. **Difference** [LCY⁺15]. **Different** [ABB⁺15, GKG⁺11, KF18]. **Differential** [KLL17]. **Difficulty** [TPG⁺19]. **DiffQue** [TPG⁺19]. **Diffusion** [CCW⁺19, STP⁺18, WMA20, SKOM13]. **Digg** [PT12]. **Digital** [MFLP14]. **Dimension** [XTW17]. **Dimensional** [HKMN20, PCC17, PKCC18, BLNN20]. **Direct** [KKG18, LG16]. **Directions** [QCL15, CAB⁺13]. **Directly** [XXL⁺17]. **Dirichlet** [LLX⁺20, LZCS11, TY14]. **Disaggregation** [LZ18, WCBL18]. **Disasters** [SZS⁺17]. **Disclosure** [ARGK15, HTM15]. **Discover** [ZW19]. **Discovering** [FGP11, XZS20, ZZKT20]. **Discovery** [CWLZ15, LYW⁺19, LC16, Pat15, SSV19, YCGH12, ZLB⁺16, ZZGH19, ZMH⁺15, DSM⁺11, Edi13, LHJ⁺11, TZY⁺13]. **Discrete** [LC16, POM20, SSL⁺18]. **Discriminant** [XZH⁺17]. **Discriminative** [DLGT19, LCD18]. **Disease** [UAS15]. **Diseases** [UAS15]. **disjuncts** [Dha11]. **Disorders** [XZH⁺17]. **Dispatching** [YTH17]. **Display** [CMR15]. **Dissimilar** [DPSS19]. **Dissipative** [LLZW17]. **Distance** [HJTZ12, WHJ⁺11, WYNW20, WHC13]. **Distant** [SP16]. **Distinguishing** [BDP12]. **Distributed** [HWCL17, MMDY15, ODF17, ZZZ⁺19]. **Distribution** [HWCL17, WCF⁺20, ZYH⁺17, ME13]. **Distributional** [Mar13]. **Diversification** [XXL⁺17]. **Diversified** [WLC⁺16]. **Diversifying** [KSKC15]. **Diversity** [BBS⁺16, CWLZ15, LCC⁺20, MG16, XXL⁺17]. **Divide** [WMH18]. **Divide-and-Conquer** [WMH18]. **DMAD** [SCLZ17]. **Document** [RHD⁺12, ZL12]. **documents** [ESNN13]. **Doing** [ZZZ⁺11]. **Domain** [LHS18, MFI19, Min16, SGTK20, WYNW20, WHR13, ZZC⁺20]. **Domain-attention** [WYNW20]. **Domains** [Min16, MGS17b]. **Domestic** [PMR⁺17]. **Double** [DLGT19, PKCC18, ZCL⁺18].

Double-Sided [PKCC18]. **down** [CST13]. **Drawn** [JTZ⁺11]. **Drifts** [LWH12]. **drinking** [BSW⁺13]. **Driven** [ACPS17, BC19, ODP⁺17, PBvL14, RSCOVCM17, SCLZ17, YWZ⁺17, ZSL⁺15, ZWGW17, CCL13, LHG11, PCF⁺19]. **Driver** [PHL⁺20, ZLT15]. **Driving** [NTM⁺16]. **Drug** [YY15, YL17]. **Dual** [CDW⁺19, HLT11]. **dual-classifier** [HLT11]. **DUCT** [ODF17]. **Durability** [ZWL⁺19]. **Dutch** [SDD⁺16]. **Duty** [LCCT12]. **Dynamic** [CCWS17, DPC16, GJSC16, HLGW13, NOZ10, PHL⁺20, RSCOVCM17, SGJC18, SS11, TY14, WPA⁺12, WCF⁺20, ZZZ⁺20b, BNS13]. **Dynamics** [DCF⁺18, GRR⁺15, LH12, PEK⁺16, Gin13]. **Dystemo** [SP16].

EachWiki [WFJY12]. **Early** [BCC⁺13, KZL⁺17, LCC⁺20, XZH⁺17]. **Economic** [PMR⁺17, ZLH18]. **Edge** [NDW⁺19, SSV19, TAL⁺19, ZDW19]. **Edge-specific** [SSV19]. **Editing** [LLDT16, SPDR15]. **Editor** [SRB15]. **EEMC** [XZW⁺15]. **Effect** [CDGZ16, Hec19, PCL18]. **Effective** [CCG⁺13, FZX15, MRJ16, ODL⁺20, WZY⁺18, ZYSL12, ZLY⁺18]. **Effectively** [RKH14]. **Effectiveness** [SGJC18]. **Effects** [GW17, LCLG19, LG16, SDXG16]. **Efficient** [BBM17, CYYL18, CTY⁺19, LCCT12, LM11, RK15, RZS⁺15, TRZ⁺19, WCBL18, XKW⁺16, XZW⁺15, ZFWL17, CCG⁺13, FTCP⁺13, TAL⁺19]. **Effort** [RFJ16]. **Ego** [CCW⁺19]. **Ego-centric** [CCW⁺19]. **Egocentric** [CXW⁺19]. **Elderly** [LCLN18]. **Elders** [SMGMC⁺15]. **Electric** [MBR⁺14, WZS⁺20]. **Electricity** [PMR⁺17]. **Electricity-Based** [PMR⁺17]. **Electro** [BC19]. **Electro-Mechanical** [BC19]. **Electromyogram** [ZZD⁺17]. **Electronic** [XZH⁺17, BVCH13, ZT11, ZC13].

elicitation [ERR13]. **eligibility** [LKD13]. **Embedding** [WFZ⁺18]. **Emergency** [YTH17]. **emerging** [CDS13]. **Emilia** [CGMC11]. **Emilia-Romagna** [CGMC11]. **EMMA** [KAH⁺16]. **Emotion** [KAH⁺16, SP16, YC12]. **Empathetic** [KAH⁺16]. **empirical** [BCD⁺13]. **Empowering** [CCL15]. **Enable** [GDC19]. **Enabling** [XZW⁺15]. **Encoded** [BC19]. **Encoding** [ZCL⁺18]. **Encoding-Layer** [ZCL⁺18]. **End** [CDR19, THL⁺15, WLL⁺20]. **End-to-End** [THL⁺15, WLL⁺20]. **End-User** [CDR19]. **Endpoint** [LG16]. **Energy** [LCCT12, LZ18, PMR⁺17, TAL⁺19, XZW⁺15, ZSL⁺15, ZFWL17, RVRJ11]. **Energy-Efficient** [LCCT12, XZW⁺15, ZFWL17, TAL⁺19]. **Engine** [LCM⁺12]. **Engineering** [BTL20]. **Enhanced** [DJI⁺16]. **Ensemble** [JSL⁺19, KCS18, ZSY⁺12]. **Ensembles** [BFHP12, LNO⁺18]. **Entities** [KXZG15]. **Entity** [LLY12, LWZZ13]. **Entity-Relationship** [LLY12]. **Enumerating** [SRMW19]. **Environment** [HTM15, KSL⁺15]. **Environmentally** [ZGP⁺18]. **Environments** [KHN15, POM20, VKLY18, dMFA⁺13]. **Episode** [ASW⁺19]. **Equation** [RGH19]. **Era** [JLX⁺17]. **Error** [BC19]. **Espressione** [Wid17]. **Essence** [Wid17]. **Estimate** [LPR19]. **Estimating** [SSV19, TPG⁺19, UAS15, XZR12]. **Estimation** [HTL⁺20, LGZ⁺17, ST19, SS15, WTK⁺19, ZWZS16]. **Ethnicity** [BDP12]. **Ethnicity-Based** [BDP12]. **Evacuation** [IVS⁺16]. **Evaluating** [MG16, ZL12]. **Evaluation** [PCF⁺19, SSG⁺20, SS15, SHB⁺12, XXL⁺17, ZQP⁺15]. **Event** [ASW⁺19, CCW⁺19, GZZY17, Min16, ZQP⁺15, ZSL⁺15, ZLY⁺18, ZL19, CST13, MMC⁺13]. **Event-Based** [ZL19]. **Event-centric** [CCW⁺19]. **Event-Driven** [ZSL⁺15]. **Events**

[ABTS15, KZL⁺17, LC12]. **Evolution** [RCN10, WZS⁺20]. **Evolutionary** [RV18]. **Examinee** [LWC⁺18]. **expansion** [BGMS13b]. **Expect** [AT15]. **Experience** [KCTT16]. **Experimental** [ODL⁺20]. **Experimentation** [DB16]. **expertise** [SLWW13]. **Explainable** [ZFS⁺19]. **explaining** [MPA13]. **explanations** [CLSL13]. **explicit** [MKL11]. **Explicitly** [BBS⁺16]. **Exploiting** [BLL⁺14, JLL18, SFX17, WWZ⁺16, WZY⁺18, ZZL⁺19]. **Exploration** [CDS12, CCW⁺19, CCG⁺13]. **Exploratory** [MGS17b]. **Exploring** [CHP17, FL20, LSW⁺20, SST⁺15, WPL13, ZYD⁺17, ZZD⁺17]. **Expression** [XTW17, WH10]. **Expressions** [JLH19]. **expressive** [LHC⁺13]. **Extensible** [THL⁺15]. **Extension** [CDW⁺19, ZY12]. **Extensions** [LC16]. **Extracting** [ABTS15]. **Extraction** [CUG⁺12, LCLN18, LWWL11, Min16, YLY⁺19, ZLZ15, ZB20, LCCS13]. **Extreme** [ZWZ⁺19].

Face [BDP12, DT16, LGL⁺16, LLDT16, LTS⁺15]. **Faceted** [TRH12]. **Facial** [BDP12, JLH19, XTW17]. **Facilitating** [WFJY12]. **Facility** [WLC⁺20]. **Factor** [PCL18, BSW⁺13, LLL⁺18]. **Factorization** [CWC⁺20, CZJL15, CYYL18, LCD17, LCD18, PKH⁺17, Ren12, TTLG17, SLH13]. **factors** [QSRGDAJD13]. **Fair** [VS11]. **Fake** [HNA20, SQJ⁺19]. **False** [SSV19]. **Fashion** [SNL⁺16]. **Fast** [CZJL15, DL13]. **Fatigue** [ZLT15]. **Feature** [BTL20, EK15, FC15, JYT⁺12, JLL18, LYW⁺19, MMDY15, PKH⁺17, RHD⁺12, WPA⁺12, YLY⁺19, ZYT⁺15, ZLZ15, FC15]. **Feature-Based** [EK15, RHD⁺12]. **Feature-Rich** [FC15]. **Feature-Space** [FC15]. **Features** [BDP12, HCCY15, SGTK20, TS17, WZS⁺15, WWZ⁺16, YGU15, ZCG15, SHZ13]. **Federated** [YLCT19]. **FEED** [YMLM16].

Feedback [NYBG17, ZYH⁺17]. **Few** [LCY⁺18]. **Few-Shot** [LCY⁺18]. **Fi** [SCLZ17, ZZZ20a]. **field** [TLWZ11]. **fields** [SGD13]. **Filtering** [CSN⁺17, JJ14, LPM20, ST20, WSGM14, BCD⁺13, ERR13]. **financial** [Dha11]. **Find** [LCY⁺15]. **Find-the-Difference** [LCY⁺15]. **Finding** [DPSS19, GLL⁺17, LCLG19]. **Fine** [OLY⁺17, WWZ⁺16, YTH17]. **Fine-Grained** [WWZ⁺16, YTH17]. **Fine-to-Coarse** [OLY⁺17]. **Flattening** [KLL17]. **Flexible** [ZLC⁺20]. **Flight** [BMTT16]. **Flow** [KZL⁺17]. **Fog** [TRZ⁺19]. **Fog-assisted** [TRZ⁺19]. **folder** [BD11]. **FolderPredictor** [BD11]. **Folksonomy** [CUG⁺12, FSS15, SHB⁺12]. **Folksonomy-Based** [CUG⁺12]. **Following** [SZS⁺17]. **Footprints** [MFLP14]. **Force** [GRR⁺15]. **Forecasting** [AAX13, HYL⁺18, JJ15, ZZC⁺20]. **Foreground** [CCH15]. **Forensics** [DLGT19]. **Forest** [WAL18, ZZZ⁺19, MGB⁺11]. **Forgery** [LC15]. **Formalizing** [GS13]. **Formation** [BFC⁺17, WH10]. **Foursquare** [JCH14]. **Framework** [CCZ⁺15, CYKL16, DBDM16, FLLX18, HCCY15, HRCT16, HMS⁺14, HMCW15, KLL17, KLLL20, MG16, PHL⁺20, RKH14, SZC⁺14, TTFS18, WSGM14, WLC⁺16, XZH⁺17, ZL12, ZSL⁺15, ZLZ15, CLSL13, CCL13, LKD13, TZY⁺13, ZT11, ZC13]. **Fraud** [ZZZ⁺19]. **Free** [LCKY14]. **Frequency** [ACPS17, SGTK20]. **Frequency-Based** [ACPS17]. **Frequent** [ASW⁺19]. **friendship** [MPA13]. **FROST** [WLC⁺20]. **FSR** [FC15]. **fully** [SSZ⁺13]. **Function** [WWZ⁺16]. **Functional** [ZWZS16]. **functions** [TDVC13, HLY⁺14]. **Fundamentals** [ZFH⁺18]. **Furniture** [HWL⁺17]. **Fused** [XKW⁺16]. **Fusing** [CWC⁺20, ZCG15]. **Fusion** [GWDJ15, HMCW15, PFS17, SZC⁺13, ZWZ⁺19, ZZC⁺20, CZLS13]. **Future**

[QCL15, WXZ⁺16, Goo10]. **Fuzzy** [DJI⁺16, KAH12, LWC⁺18].

Gait [WWZ⁺16]. **Gaits** [ZYH⁺20]. **Game** [HB12, JD15, LCY⁺15, MRJ16, SSG⁺20]. **Game-Theory** [MRJ16]. **Games** [SRMW19, WMA20, FT10]. **Gamesourced** [SS15]. **Gap** [GME17]. **GAPs** [SSS11]. **Gathering** [KZL⁺17, KG11]. **Gaussian** [FNS16, LGZ⁺17]. **Gaze** [HLNL18]. **Gen** [BI17]. **Gene** [UAS15]. **Gene-Disease** [UAS15]. **Genealogy** [FE15]. **General** [LS16, THL⁺15, WLF⁺18, ZWZS16]. **General-Purpose** [LS16]. **Generalized** [XKW⁺16, CFG13]. **Generate** [WLC⁺16]. **Generated** [CRYT12, CCC⁺12, LCY⁺15, SDD⁺16, ZX11]. **Generating** [MD13, YMC16, ZDC⁺13, CLSL13]. **Generation** [CUG⁺12, DB16, SDHS15, ZFQX20, ZFS⁺19, Mar13, YSJ13]. **Generative** [LXJ⁺20, WYC⁺17]. **Generic** [ZDL⁺12]. **Genetic** [UAS15]. **Genres** [TS17]. **Geo** [HWCL17, JGL⁺15, ZWH17, ZLY⁺18]. **Geo-Distributed** [HWCL17]. **Geo-Social** [JGL⁺15]. **Geo-Tagged** [ZWH17, ZLY⁺18]. **GeoBurst** [ZLY⁺18]. **GeoCloud** [ZWL⁺15]. **Geographic** [CRRH11, JSL⁺19, YLT13]. **geographic-temporal-semantic** [YLT13]. **Geographical** [HL19]. **geolocating** [CCL13]. **Geolocation** [SZC⁺14]. **Geosocial** [KLLL20]. **Geospatial** [SSS11, SDS12, Siz12]. **Geotagged** [ZLH18, ZZC12, SSSL13]. **Geotemporal** [HWT17]. **Gestures** [LMAP16]. **Getting** [Wid17]. **Global** [ZCS⁺12, MGB⁺11]. **Go** [LMAP16]. **Goal** [MGSK19]. **governing** [Sin13]. **GPS** [ZX11]. **Gradient** [CZJL15]. **Grained** [WWZ⁺16, YTH17]. **Grammars** [LCKY14]. **Granularity** [HLY⁺14]. **Graph** [BFC⁺17, FZX15, LS16, LCN⁺16, LCD17, LLF⁺19, LAS20, PKH⁺17, RAZE18, SRMW19, WXLY12, SZC11, THY⁺11].

Graph-based [LAS20, THY⁺11]. **Graph-Constrained** [BFC⁺17]. **Graph-Mining** [LS16]. **Graph-Restricted** [SRMW19]. **Graphs** [GYT19, KLL17, OOD⁺17, UAS15, WFZ⁺18, CST13, SLWW13]. **Gravity** [ZC15]. **Gravity-based** [ZC15]. **green** [RVRJ11]. **grid** [RVRJ11]. **Ground** [KP17, YL14]. **Ground-Truth** [YL14]. **Group** [BB15, MMDY15, TWL11, QSRGDAJD13, YJHL11]. **Group-Buying** [BB15]. **Growing** [LNO⁺18]. **Guidance** [CTY⁺19]. **Guided** [CCZ⁺15, BTL20].

H [TNSP13]. **Hand** [JTZ⁺11, TLW⁺15]. **Hand-Drawn** [JTZ⁺11]. **Handling** [CCK⁺18, CLSL13]. **Handwriting** [ZLZ15]. **Happiness** [PCL18]. **Harnessing** [SR17]. **Hashing** [CDW⁺19, SSL⁺18, ZLC⁺20]. **Hawkes** [LZ18]. **Hazy** [CHY15]. **Health** [AKR⁺18, KXZG15, PEK⁺16, TRZ⁺19, XZH⁺17, YY15, BVCH13, RC13, RY13]. **Health-Consumer-Contributed** [YY15]. **Healthcare** [CCL15, CL15, TY12, WHR13]. **Heating** [ASSR18, PMR⁺17]. **Heavy** [LCCT12]. **Heavy-Duty** [LCCT12]. **helpfulness** [ZT11]. **HERA** [LFL⁺20]. **Heterogeneous** [CXW⁺19, FC15, JSL⁺19, LGL⁺16, LFL⁺20, WYY⁺19, XZXM19, YGU15, YDZ20]. **Hidden** [Hec19, SRJP12, TY14, YLY⁺19]. **Hierarchical** [BWC15, CDS12, LCKY14, YFJ⁺18, YMC16]. **Hierarchies** [ASW⁺19]. **High** [HKMN20, LXM⁺18, PCC17, WH18, WCS⁺20, SSZ⁺13]. **high-density** [SSZ⁺13]. **High-Dimensional** [HKMN20, PCC17]. **High-Precision** [LXM⁺18]. **High-utility** [WCS⁺20]. **highest** [BCC⁺13]. **Histogram** [CHY15]. **History** [LX14, WLC⁺20]. **History-Conscious** [WLC⁺20]. **HMPSoCs** [TAL⁺19]. **Hoeffding** [BFHP12]. **Home** [KHN15, MND14, RC13]. **home-based** [RC13]. **homeostatic** [RVRJ11]. **Homes**

[CPHL15]. **Homogeneity** [AGP17]. **House** [LPR19]. **Human** [BL16, CKS10, FE15, HAAM12, HDPH16, LMAP16, ODP⁺17, PHL⁺20, PPPM18, RHF16, SZS⁺17, SS15, SRJP12, TRH16, UAS15, WST⁺15, YSN⁺17, ZHZ18, ZLH18, FGP11, RC13, TBK⁺10]. **Human-aware** [CKS10]. **Human-Like** [LMAP16]. **Human-Robot** [HAAM12, TBK⁺10]. **Human-Thing** [YSN⁺17]. **Hybrid** [CCH15, SRJP12, BCD⁺13, HMCW15]. **Hypergraph** [FWZ17, XZXM19]. **Hyperlocal** [TTFS18]. **Hypotheses** [TS17].

Identification [FGL17, LYWW18, MND14, SQJ⁺19, SLR⁺16, TLLS17, WPA⁺12, BSW⁺13, LCC⁺20]. **Identify** [POM20, WXY12]. **Identifying** [BR15, RHT⁺18, SRB15, YGU15]. **IF** [CDR19]. **II** [HTDJ12]. **iid** [FNS16]. **iliad** [MWS⁺18]. **Illicit** [YL17]. **Image** [CHY15, DTL15, GHZ⁺17, HJCK20, KKG18, LCN⁺16, LLZW17, LCY⁺18, LWWX20, OLY⁺17, SGTK20, THY⁺11, TTLG17, TC19, WH11a, WLL⁺20, ZYT⁺15, ZWH17, SZC11, WLH10, WHC13]. **Image-Centric** [KKG18]. **image-to-class** [WHC13]. **Imagery** [HCTC12, RHF16]. **Images** [CWR⁺16, LPR19, LC15, ZSS⁺15, THY⁺11]. **Imbalance** [BLAK19]. **Imitation** [HAAM12]. **Impact** [FSS15, ZZD⁺17]. **implications** [WCBK11]. **Implicit** [LLZW17, MKL11]. **Improve** [HCTC12, KCTT16, RHF16, SMGMC⁺15, RBK⁺13]. **Improved** [LC15, TRDD12, MD13]. **Improving** [CDK⁺13, GJ13]. **imputation** [PG13]. **In-App** [FLLX18]. **Incentive** [LDTX16, YTH17]. **Incentive-Aware** [YTH17]. **Incentives** [FS17, RFJ16]. **Incomplete** [BLAK19, HWT17, Zhu19]. **incorporating** [SLWW13]. **Incremental** [WH18, YMC16, BCC⁺13]. **Independence** [FNS16, ZZGH19]. **Independent** [ZZGH19]. **index** [DL13]. **Indexing** [LCM⁺12]. **Indirect** [LG16]. **Individual** [MG16, PG13, RYS10]. **Indoor** [FDE15, YZY⁺17, SGD13]. **Induction** [SHB⁺12]. **Inductive** [DJI⁺16]. **Industrial** [CWR⁺16, KW17, WZS⁺15]. **Infer** [LCCT12, WZHL14]. **Inference** [CDGZ16, FNS16, GTM⁺14, GH18, LLX⁺20, ZLB⁺16, ME13, SZC11]. **inference-based** [ME13]. **Inferring** [Hec19, HL19, HWT17, WCBK11]. **Influence** [BBM17, CZP⁺14, CCWS17, LBP19, Pat15, TY12, WXZ⁺16, ZC15]. **Influence-Based** [BBM17, Pat15]. **influencing** [HKO13]. **Informatics** [CL15, RY13]. **Information** [ARGK15, CHHH18, CCW⁺19, CWC⁺20, CRRH11, FZX15, GLJ⁺14, HMCW15, JLL18, KAH12, LMC⁺15, Pai16, PSLB12, RK15, SFX17, SR17, STP⁺18, WLH17, ZYH⁺17, ZW19, CBP13, KG11, PG13, SKOM13, WHJ⁺11]. **Infrastructure** [HDPH16, MBR⁺14]. **Input** [SDHS15]. **ins** [JCH14]. **Insights** [HWCL17, KDC13]. **Inspection** [SSG⁺20]. **Inspired** [WAL18]. **Instagram** [YL17]. **Insurance** [NTM⁺16]. **Integrate** [PKCC18]. **Integrated** [FLF⁺20, HL17, PKH⁺17]. **Integrating** [CBP13, PKCC18]. **Integration** [YCGH12]. **integrative** [WW13]. **Intelligence** [AJL18, CC12, GST12, GCY⁺15, KAH⁺16, ZWGW17]. **Intelligent** [CALK16, CL15, FGL17, HGE17, HJTZ12, HTDJ12, IVS⁺16, LCM⁺12, LZCQ12, MMS17, NAPI14, NDW⁺19, SYHB17, TAL⁺19, WW13, Edi13, FKSS13, HTDJ11, LKD13, LLWC13, RY13, YSJ13, YZEC13, ZPY11, MWS⁺18]. **interacting** [SZC⁺13]. **Interaction** [HAAM12, YWZ⁺17, LMWS13]. **Interaction-Driven** [YWZ⁺17]. **Interactions** [HLNL18, YSN⁺17]. **Interactive** [CCW⁺19, LZP⁺12, RAZE18, WH11a, PCC10, YSJ13]. **Interdata** [WZY⁺18]. **Interest**

[CYKL16, YGU15, YKTL14]. **Interesting** [XZS20, ZNWC14]. **Interests** [WZHL14]. **Interface** [NAPI14]. **Interfaces** [DPSS19, LZCQ12]. **Intermittent** [PMR⁺17]. **International** [RFI⁺11]. **Interval** [WCS⁺20]. **Interval-based** [WCS⁺20]. **Intervention** [HM19, KPF18]. **Intervention-Based** [KPF18, HM19]. **interventions** [BVK10]. **Intradata** [WZY⁺18]. **Introduction** [BBGG13, BTVY17, CWLZ15, CALK16, CC12, CABD13, CL15, CCC⁺12, CSTZ16, Edi13, FS13, GST12, GY11, GCY⁺15, GCZ11, GCZ13, HLY⁺14, HJTZ12, HYZ15, Hsu11, HTDJ11, HTDJ12, JLX⁺17, KN13, LLWC13, Lin11, LN10, LN11, LZCQ12, RY13, SYHB17, SA15, SY12, WDSZ13, Yan10, YNS13, YZEC13, ZPY11, ZCWY14a]. **Intrusion** [MFI19]. **Invariant** [DT16, MWS⁺18]. **Involved** [ADJ⁺20]. **IoT** [LLLC19, YTH17]. **IoT-Based** [YTH17]. **Irrelevance** [ZYH⁺17]. **Isolated** [GME17]. **Israel** [BI17]. **Issue** [AJL18, BTVY17, CKW19, CWLZ15, CALK16, CL15, CSTZ16, GCY⁺15, HLY⁺14, HYZ15, JLX⁺17, SA15, YMLM16, ZLB⁺16, ZWGW17, BBGG13, Che10, GY11, Hsu11, HTDJ11, Lin11, LN10, ZPY11]. **Italian** [CGMC11]. **Item** [WYC⁺17, WYD⁺18, GJ13]. **Item-Set** [LPM20]. **item-specific** [GJ13]. **Items** [EK15]. **Iteratively** [WMH18].

Joint [GTM⁺14, LAsO⁺19, LC15, XTW17, HLGW13, LSQ11]. **Joyful** [Pac17]. **JPEG** [DLGT19, LSQ11, LC15]. **Just** [ABG⁺11]. **Just-in-Time** [ABG⁺11].

Kernel [LSZH18, MMDY15]. **Key** [LLLC19]. **Keyword** [CWCK15]. **Keywords** [ZWXZ12]. **Kinect** [CCZ⁺15, KSL⁺15, SZX15]. **KinectFusion** [FDE15]. **Kinematic** [LMAP16]. **Knockout** [VS11]. **Knowledge** [DJI⁺16, GH18, Min16, OOD⁺17, SRJP12, WYY⁺19, ZFQX20, Edi13]. **Knowledge-aware** [ZFQX20]. **Knowledge-Based** [SRJP12]. **Knowledge-Leverage-Based** [DJI⁺16]. **krypta** [FPVC13].

Label [FLLX18, LFL⁺20, RV18, SKF⁺14, BLAK19, THY⁺11, YJHL11]. **Labeled** [LWH12]. **Labeling** [ZSS⁺15, TLWZ11]. **Labels** [YDZ20]. **Landmark** [GWDJ15, SSSL13]. **Landmarking** [WPA⁺12]. **Language** [BLNN20, SZX15, ZSAL20, ESNN13, ZZZ20a]. **Large** [ASW⁺19, BWC15, CQZ⁺12, GOB⁺12, HDTG15, HKMN20, LJC⁺11, PCC17, PCL18, TTLG17, WTK⁺19, FGP11, Hsu11, SSZ⁺13]. **Large-Scale** [ASW⁺19, CQZ⁺12, HDTG15, HKMN20, LJC⁺11, PCC17, PCL18, WTK⁺19, FGP11, Hsu11]. **laser** [SZC⁺13]. **Lasso** [XKW⁺16]. **Latent** [GRR⁺15, RGH19, Siz12, SZX15, YCGH12, LZCS11]. **Latent-Force-** [GRR⁺15]. **Layer** [KLL17, ZCL⁺18]. **LBSNs** [HYC⁺16]. **LDA** [TRH16]. **Learning** [BC19, BLL⁺14, BLNN20, CCL15, CYYL18, DJI⁺16, DGZ15, EMF12, FC15, FZ16, FLLX18, FL20, GJSC16, GHZ⁺17, GYT19, HY11, HAAM12, HCTC12, HJTZ12, JSL⁺19, JLH19, LC12, LCCT12, LCKY14, LPM20, LLZW17, LCY⁺18, LCLG19, LCC⁺20, LSZH18, LNO⁺18, LFL⁺20, MSSV11, MKL11, Min16, MNSB15, NZW⁺17, NDW⁺19, PYD⁺17, PHL⁺20, PCF⁺19, PKH⁺17, PCC17, PS11, RV18, RAZE18, SC17, SZT12, SY12, VKA⁺19, WC12, WHC13, WZS⁺15, WZH16, WJY⁺18, WFZ⁺18, WZYM19, WCF⁺20, WMH18, WYY⁺19, XZXM19, XZR12, YLCT19, YDZ20, ZYT⁺15, ZCS⁺12, ZSY⁺12, ZY12, ZLZ⁺17, ZGP⁺18, ZHZ18, ZCWZ18, ZWZ⁺19, ZX11, ZBZX12, ZCL⁺18, BSW⁺13, BPS13, DSM⁺11, ERR13, GPSB11, GXZ⁺11, Hsu11, HLT11, KDC13, LHG11, Lin11, SSZ⁺13, SZC⁺13,

WH11b, WHJ⁺¹¹, ZSAL20]. **learning-based** [HLT11]. **Least** [LHS18]. **lecture** [YSJ13]. **Lending** [ZGL⁺¹⁷]. **Length** [YMC16]. **Letter** [BI17]. **Level** [LZY⁺¹⁶, SGJC18, PG13]. **Levels** [ABB⁺¹⁵]. **Leverage** [DJI⁺¹⁶]. **Leveraging** [FXR⁺¹⁷, RHF16, TRDD12, ZBZX12, ZZC⁺²⁰]. **Lexical** [HCB13]. **libFM** [Ren12]. **Libraries** [MGSK19]. **Library** [LS16, CL11]. **LIBSVM** [CL11]. **Life** [LM11]. **Lifespan** [FE15]. **Lightweight** [ZDW19]. **Like** [LMAP16]. **Limited** [LWH12]. **limiting** [ZC13]. **Lingual** [PS11]. **Link** [BTL20, GTM⁺¹⁴, WZHL14, FTCP⁺¹³]. **Linked** [DOTD16]. **Linking** [HLY⁺¹⁴]. **Links** [JJ14]. **List** [UAS15]. **Living** [SMGMC⁺¹⁵]. **Load** [WCBL18]. **Local** [GQY⁺¹⁹, JYT⁺¹², LTS⁺¹⁵, LCLG19, SMX15, ZCS⁺¹², ZLY⁺¹⁸]. **Localization** [HKMN20, LXM⁺¹⁸, SGD13]. **Locally** [ZNWC14]. **Localness** [HWT17]. **LocateMe** [SGD13]. **Location** [AC15, ABO17, CYKL16, FXHM16, HLL14, JGL⁺¹⁵, JWJC16, LX14, LBP19, MND14, SFX17, WMR17, YZQ16, ZC15, ZFWL17, ZWH17, CGMC11, YLT13]. **Location-Aware** [ZFWL17]. **Location-Based** [CYKL16, HLL14, LBP19, WMR17, YZQ16, ZWH17]. **Location-Specific** [LBP19]. **locations** [FGP11]. **Logic** [KAH12]. **Logs** [LJC⁺¹¹, JPL13]. **LONET** [YSJ13]. **Long** [WZS⁺¹⁵, WZS⁺²⁰]. **Long-Tail** [WZS⁺¹⁵]. **Long-Term** [WZS⁺²⁰]. **Longitudinal** [WZS⁺²⁰]. **Look** [LPR19]. **looping** [HY11]. **Loss** [LFL⁺²⁰]. **Low** [BL16, HBK⁺¹⁶, LCN⁺¹⁶, LFL⁺²⁰, ZLZ15, ZMH⁺¹⁵, SHZ13]. **Low-Cost** [BL16]. **Low-Rank** [HBK⁺¹⁶, LCN⁺¹⁶, LFL⁺²⁰, ZLZ15, ZMH⁺¹⁵, SHZ13]. **Machine** [LXJ⁺²⁰, PCF⁺¹⁹, SY12, SZX15, YC12, YLCT19, ZWZ⁺¹⁹, BSW⁺¹³, BPS13, Hsu11, KDC13, Lin11, Mar13]. **Machines** [AKR⁺¹⁸, CYYL18, Ren12, CL11]. **Macrosociological** [JCH14]. **Magnetic** [SGD13]. **Magnetic-fields-based** [SGD13]. **Maj** [BI17]. **Making** [ZZZ^{+20b}]. **malicious** [MSSV11]. **Manage** [CCL15]. **Management** [IVS⁺¹⁶, YMLM16, Edi13, PMSR11]. **manifesta** [FPVC13]. **Manifesto** [Wid17]. **Manifold** [PKCC18]. **Manipulating** [JTZ⁺¹¹]. **Manipulation** [SGTK20]. **Map** [WH11a, ZZZ⁺¹¹, CCW⁺¹⁹]. **Map-Based** [ZZZ⁺¹¹]. **Mapping** [HRCT16, YZQ16, TLWZ11]. **Maps** [JTZ⁺¹¹, Goo10]. **maps/crisis** [Goo10]. **Market** [JD15, NOZ20]. **Marketplace** [JPS⁺¹⁶]. **marketplaces** [ZC13]. **Markets** [KAH12, Dha11]. **Markov** [BWC15, Gin13, LAsO⁺¹⁹, LYW⁺¹⁹, SRJP12]. **Massive** [LZY⁺¹⁶]. **Matching** [DCM15, LLF⁺¹⁹, ZNWC14, OSM⁺¹³]. **matchmaking** [LKD13]. **Mathematical** [OY13]. **Matrix** [CWC⁺²⁰, CZJL15, HBK⁺¹⁶, LCD17, LCD18, PKH⁺¹⁷, TTLG17, ZMH⁺¹⁵, SHZ13, SLH13]. **Maximization** [ACPS17, CZP⁺¹⁴, YMC16]. **Mean** [GQY⁺¹⁹]. **meaning** [ME13]. **Means** [PKCC18]. **Measurement** [WZS⁺²⁰]. **Measurements** [MGS17a]. **Measures** [LAS20, XXL⁺¹⁷]. **Measuring** [HLL14, SCLZ17, TRH16, ZZGH19]. **Mechanical** [BC19]. **Mechanism** [LHS18, LDTX16]. **Media** [BTVY17, CCW⁺¹⁹, HWCL17, LCM⁺¹², PT12, RHT⁺¹⁸, Siz12, STP⁺¹⁸, TY12, TY14, TLLS17, WZZ⁺¹⁶, ZMH⁺¹⁵, CZLS13, Goo10, HCB13, LCCS13]. **Mediated** [ST20]. **Medical** [ABB⁺¹⁵, GH18, LWWX20, MMDY15, HBSC13, KDC13]. **medicine** [WW13]. **Meets** [JGL⁺¹⁵, LAS20, WLC⁺¹⁶]. **Memory** [CZJL15]. **Mental** [XZH⁺¹⁷]. **mention** [CST13]. **MER** [EBG⁺¹²]. **Merging** [LWWX20]. **Mesh** [JLH19, YZL⁺¹⁹]. **MeTA** [ABB⁺¹⁵].

Metaphor [HNV14]. **Metastrategies** [HDTG15]. **Metering** [WCBL18]. **Method** [CCH15, CZJL15, CYYL18, LWL11, SP16, SRJP12, ZYH⁺17, RC13]. **Methodologies** [ZCWY14b]. **Methods** [BBM17, LSZH18, VDL⁺19, WZYM19, WTL20]. **Metric** [HCTC12, HJTZ12, XZR12, ZCS⁺12, ZY12, WHC13, WHJ⁺11]. **metrics** [WLG11]. **Metropolises** [YZY⁺17]. **Microblog** [CDW⁺19, HWCL17, CCL13]. **Microbloggers** [HL17]. **microblogging** [KN13]. **Microblogs** [FXR⁺17, GZZY17, LJL⁺17, LYWW18]. **microprocessor** [CCG⁺13]. **Microscopic** [RXK⁺17]. **Microtopic** [LJL⁺17]. **Minimal** [MJVL16]. **Minimize** [SLR⁺16]. **Minimizing** [GJSC16, GJC17]. **Mining** [ASW⁺19, BMTT16, BCGJ11, CPHL15, CCC⁺12, EL14, FE15, HCCY15, JGL⁺15, JPL13, LS16, LHJ⁺11, LWH12, LLL⁺16, LX14, LJC⁺11, LYWW18, PFS17, PPPM18, PSRL12, RAZE18, SMX15, SLH13, WH18, WCS⁺20, YY15, YSN⁺17, YLT13, YKTL14, ZSS⁺15, ZYC12, Zhe15, ZCX⁺15, BVCH13, BK11, BBGG13, MGB⁺11, PMSR11, RC13]. **Misinformation** [LYWW18]. **Missing** [CDGZ16, DCM15]. **Mitigation** [AGP17, SQJ⁺19]. **Mixture** [LAsO⁺19, LLX⁺20, LC16]. **Mobile** [CHP17, CCK⁺18, GWDJ15, GME17, JLX⁺17, LZY⁺16, NZW⁺17, SFX17, WMR17, XZW⁺15, YWZ⁺17, ZS18, ZFWL17, ZDW19, ZCX⁺15, BGMS13a, CKS10, Edi13]. **Mobility** [ABO17, FGL17, HS19, LCLN18, PPPM18, SZS⁺17, WFZ⁺18, WZS⁺20, YCP⁺13, ZYW⁺15, ZHZ18]. **Mobility-on-Demand** [HS19]. **Modal** [GYT19, ZLC⁺20]. **Modality** [WZZ⁺16]. **Modality-Dependent** [WZZ⁺16]. **Mode** [RV18, SZT12]. **Model** [CRRH11, EL14, GLL⁺17, GRR⁺15, HYC⁺16, HLNL18, HTL⁺20, JWJC16, KP17, LAsO⁺19, LLX⁺20, LC16, LLZW17, MGJW20, MFI19, NYBG17, Pai16, PCC17, SRJP12, WYC⁺17, WLF⁺18, WYD⁺18, ZYSL12, ZWZS16, ZCWZ18, CDS13, CZLS13, HLGW13, HLT11, ME13]. **Model-Based** [EL14, GRR⁺15]. **Modeling** [AC15, CCL15, CHHH18, DWKP16, DJI⁺16, DCF⁺18, GRR⁺15, GOB⁺12, HL17, JLJ⁺20, LZ18, LYWH20, SZX15, YCGH12, ZC15, ZHZ18, LN10, YNS13, ZT11, ZC13]. **Modelling** [LWC⁺18]. **Models** [EK15, GST12, HM19, KW17, LH12, MNSB15, PFS17, RGH19, SLR⁺16, ZSS⁺15, ZWZS16, ZSAL20, Zhu19, ZZKT20, Bai10, FGP11, Gin13, HLJ11, LHS⁺13]. **Modification** [CHY15]. **modified** [CLSL13]. **Mondrian** [DL13]. **Monitoring** [AKR⁺18, MGB⁺11, MMC⁺13, NTM⁺16, VDL⁺19, WYM17, WCBL18, RC13]. **Monolingual** [LWWL11, RBK⁺13]. **Mood** [KAH⁺16]. **Motion** [SRJP12, YZL⁺19, LMWS13]. **Motion-Aware** [YZL⁺19]. **mouth** [ZT11]. **Movement** [CCK⁺18, WWZ⁺16, WLC⁺20, LHJ⁺11]. **Movements** [LMAP16]. **MoveMine** [LHJ⁺11]. **Movie** [DBDM16, SBD13, LHZ13, SLH13]. **Moving** [HCJM15, Pat15, LHJ⁺11]. **Moving-Object** [HCJM15]. **MS** [KSL⁺15]. **Multi** [BLAK19, CWCK15, CWC⁺20, DLGT19, FWZ17, FLLX18, GDC19, GYT19, KLL17, KW17, LLL⁺18, MFI19, NOZ20, PCL18, RV18, SKF⁺14, ST20, SP16, SS11, WJY⁺18, WYNW20, ZHZ18, ZWZ⁺19, ZLC⁺20, Zhu19]. **Multi-Agent** [GDC19, SS11, Zhu19, NOZ20]. **Multi-Auxiliary** [CWC⁺20]. **Multi-Category** [SP16]. **Multi-Click** [CWCK15]. **Multi-Domain** [MFI19]. **Multi-Factor** [PCL18, LLL⁺18]. **Multi-Hypergraph** [FWZ17]. **Multi-Keyword** [CWCK15]. **Multi-Label** [FLLX18, RV18, SKF⁺14, BLAK19]. **Multi-Layer** [KLL17]. **Multi-Modal** [GYT19, ZLC⁺20]. **Multi-Objective**

[SKF⁺14]. **Multi-Party** [ST20]. **Multi-scale** [DLGT19]. **Multi-source** [WYNW20]. **Multi-Threaded** [KW17]. **Multi-View** [FLLX18, WJY⁺18, ZHZ18, ZWZ⁺19]. **Multiagent** [CGZ18, DPC16, JD15, BNS13, FS13, ZC13]. **Multiagent-Based** [CGZ18]. **Multicontext** [OLY⁺17]. **Multiexpert** [SDHS15]. **Multifeature** [GWDJ15, LGZ⁺17]. **Multifocal** [GXZ⁺11]. **Multigroup** [HMCW15]. **Multilabel** [JLL18]. **Multimedia** [HTDJ12, JGL⁺15, JLX⁺17, LTW⁺16, NZW⁺17, PCL18, SSL⁺18, ZLC⁺20, BK11, HTDJ11, WH11b]. **Multimodal** [YL17, ZYH⁺20]. **Multimodular** [SDD⁺16]. **Multiobjective** [RZS⁺15]. **Multiobjects** [WXZ⁺16]. **multipartite** [SLWW13]. **Multiperson** [WYM17]. **Multiple** [ARGK15, LXJ⁺20, MZL12, SGTK20, ZS18, ZCG15, LMWS13, SZC⁺13]. **Multiple-Choice** [LXJ⁺20]. **Multiresolution** [CDS12, DTL15]. **Multitask** [LCN⁺16]. **Multitechnique** [BMV13]. **Multivariate** [WC12]. **Multiview** [SSL⁺18, XTW17, ZYT⁺15, ZCS⁺12]. **Music** [OOD⁺17, SC17, SYHB17, SR17, TS17, Wid17, YC12, ZSLC19]. **Music-Related** [SR17]. **Mutual** [LGL⁺16, WXZ⁺16]. **Myerson** [SRMW19]. **MySpace** [PT12].

Named [KXZG15, LWZZ13]. **Naming** [LX14]. **Narrative** [PCC10]. **Natural** [SZS⁺17, ZSAL20]. **navigation** [WHR13]. **Nearest** [GQY⁺19]. **Negative** [JJ14, CLSL13, TTLG17]. **Negotiating** [GKG⁺11]. **Neighbor** [GQY⁺19]. **Neighborhood** [LYWH20]. **Neighboring** [LSQ11, LC15]. **Neighbourly** [GDC19]. **Nested** [MFI19]. **Network** [BBM17, BCGJ11, GTM⁺14, JLH19, LS16, LWWX20, LSW⁺20, MGS17a, MFI19, OLY⁺17, PEK⁺16, SC17, VKA⁺19, WXZ⁺16, MPA13, YSJ13]. **Network-Oblivious** [BBM17]. **Networked** [SZT12]. **Networking** [ZWGW17]. **Networks** [ABO17, CZP⁺14, CHP17, CYKL16, CCWS17, DLGT19, DCM15, FL20, GME17, HS19, HTSC⁺17, JJ14, LCKY14, LBP19, LCJ⁺19, LXJ⁺20, MGJW20, SRB15, TLW⁺15, VNL⁺11, WAL18, WTL20, WZS⁺20, WLH17, YL14, YZQ16, YFJ⁺18, ZL19, ZDW19, BVK10, CBP13, FTCP⁺13, HKO13, SKOM13, SLWW13, WCBK11]. **Neural** [JLH19, LCJ⁺19, MGJW20, SC17, TLW⁺15, WAL18, WTL20, ZDW19]. **Neutrality** [MGS17a]. **News** [CQZ⁺12, GW17, HNA20, LTW⁺16, SQJ⁺19]. **Newton** [CYYL18, WTL20]. **Neyman** [GPSB11]. **NN** [THY⁺11, ZLZ⁺17]. **NN-sparse** [THY⁺11]. **NoC** [TAL⁺19]. **Node** [JLJ⁺20]. **Noise** [DWKP16, JLL18, MJVL16]. **Noise-Minimal** [MJVL16]. **Noise-Resilient** [JLL18]. **noisily** [THY⁺11]. **Noisy** [DGZ15, KXZG15]. **Non** [FNS16, TTLG17]. **Non-iid** [FNS16]. **Non-negative** [TTLG17]. **nonconvex** [GPSB11]. **Nonhomogeneous** [LAsO⁺19]. **Nonignorable** [CDGZ16]. **Nonintrusive** [WCBL18]. **Nonlinear** [BC19, WMH18, ZWZS16]. **Nonnegative** [DTL15, LCD17, LCD18, PKH⁺17]. **nonparametric** [LHG11]. **Nontrivial** [SSHL13]. **Normalization** [SDD⁺16, HCB13]. **Norms** [Sin13]. **Novel** [BTL20, DWKP16, JJ15, KKG18, KLL17, KLLL20, MG16, WSGM14]. **Novelty** [BBS⁺16, CRYT12]. **Nowcasting** [LC12].

obesity [MPA13]. **Object** [HCJM15, SST⁺15, TLC⁺14, YLX⁺20, ZZL⁺19, LHJ⁺11, LHS⁺13]. **Object-Oriented** [TLC⁺14]. **Objective**

[SKF⁺14]. **Objects** [CCL15]. **Oblivious** [BBM17]. **Observable** [JD15]. **Observational** [Hec19, LLL⁺16, LLX⁺20]. **Obtained** [CCL15]. **Ode** [Pac17]. **Odometry** [FDE15]. **offense** [TEP11]. **Offline** [HL19, ZLH18]. **Offloading** [NDW⁺19]. **Ohmage** [THL⁺15]. **On-Device** [GWDJ15]. **Onboard** [MRW⁺12]. **One** [AKR⁺18]. **One-Class** [AKR⁺18]. **Online** [AKR⁺18, BWC15, BLL⁺14, BR15, FE15, GHZ⁺17, HTSC⁺17, HL19, HWT17, HYL⁺18, LSZH18, MGS17b, RSCOVCM17, SA15, SLR⁺16, WXL12, WYY⁺19, ZWL⁺15, ZLH18, ZZZ⁺20b, GPSB11, SSZ⁺13, SZC⁺13, ZDC⁺13]. **ontological** [KDC13]. **Open** [DOTD16, GDC19, ZCC⁺20, TBK⁺10]. **Operational** [SGJC18]. **operations** [BKB10, RFI⁺11]. **Opinion** [HCCY15, WH10, ZT11]. **Opportunity** [EBG⁺12]. **Optimal** [GJC17, POM20]. **Optimization** [BB15, BLL⁺14, HKO13, ODF17, SGJC18, SKF⁺14, VKLY18, FLF⁺20]. **Optimization-based** [HKO13]. **Optimize** [XXL⁺17]. **Optimized** [HWCL17, KG11]. **Optimizer** [HJCK20]. **Optimizing** [GG15, HTSC⁺17]. **Optimum** [ZS18]. **Option** [CWCK15]. **Orchestration** [Pac17]. **Ordering** [TRH12]. **Organization** [ZL19]. **Oriented** [LXJ⁺20, TLC⁺14]. **Orienteering** [VKLY18]. **Orthogonal** [LGZ⁺17, LCD18]. **Outcome** [CLBM15, SDXG16]. **Outcomes** [CDGZ16]. **Overlapping** [JLJ⁺20]. **Overlaps** [YL14]. **Overview** [ZGP⁺18, Zhe15].

P2P [ZGL⁺17]. **Package** [TLC⁺14]. **Page** [ABG⁺11, HDPH16, TRDD12]. **Pages** [ZWXX12]. **Paid** [FS17]. **Pair** [LCC⁺20, ZNYH11]. **pair-activities** [ZNYH11]. **Pair-based** [LCC⁺20]. **Paradigm** [HAAM12]. **Parallel** [CDS12, CZJL15, LZCS11, ZWH17]. **Parameterized** [Pai16]. **Paraphrase** [BPS13, BMV13, Mar13, ME13]. **paraphrases** [BMV13, MD13]. **paraphrasing** [RBK⁺13, WDSZ13]. **Pareto** [RZS⁺15]. **Pareto-Efficient** [RZS⁺15]. **Paris** [EL14]. **Parkinsonian** [WWZ⁺16]. **Part** [HTDJ12]. **Partial** [LHS18, LFL⁺20]. **Partially** [JD15, TRDD12]. **Participants** [XZW⁺15]. **Participatory** [CTY⁺19, GCY⁺15, THL⁺15, YZQ16, ZSL⁺15]. **Particle** [HJCK20]. **Partners** [RKH14]. **parts** [TDVC13]. **parts-based** [TDVC13]. **Party** [ST20]. **Passenger** [DCF⁺18]. **Passive** [LSZH18]. **Passive-Aggressive** [LSZH18]. **Password** [ZZD⁺17]. **Path** [DOTD16, YSJ13]. **Path-Based** [DOTD16]. **Paths** [LCLG19, MNSB15]. **Patient** [KXZG15, HBSC13, KDC13, LMWS13]. **Patient-Related** [KXZG15]. **Patients** [CCL15]. **Pattern** [CPHL15, DCM15, WWZ⁺16, WH18, BVCH13, WPL13]. **pattern-aware** [WPL13]. **Patterns** [ABO17, CCW⁺19, FE15, LCLN18, LXM⁺18, WCS⁺20, WZS⁺20, ZCC12, LHJ⁺11, RC13, SKOM13, YLT13]. **Pay** [LDTX16]. **PC** [SSV19]. **Peacock** [WZS⁺15]. **Pearson** [GPSB11]. **Pedestrian** [KF18]. **Peer** [RFJ16]. **Peers** [CCL15, DPSS19]. **People** [ARGK15, GKG⁺11, HWT17, MZL12, CXW⁺13]. **Perception** [TRH16]. **Perceptual** [FZ16]. **Perform** [RV18]. **Performance** [HBL16, LWC⁺18, PCF⁺19, WLG11, YLC⁺19]. **Periodic** [WFZ⁺18]. **Person** [LCC⁺20]. **Personalized** [BGPYS11, CFG13, CDS13, CSN⁺17, ESNN13, FXHM16, HLNL18, LJL⁺17, LX14, LCY⁺15, LLL⁺18, WYD⁺18, ZNWC14, ZFS⁺19, ZCX⁺15]. **Personnel** [YTH17]. **Perspective** [LLL⁺18, WFZ⁺18, YLC⁺19, ZYW⁺15, ZLH18, ERR13]. **Perspectives** [CDLV13]. **Pervasive** [SRM⁺13]. **Pets** [PCL18]. **PhC** [CDS12]. **Phenotype** [UAS15]. **Phenotype-Gene** [UAS15]. **Phones** [GME17]. **photo**

[WHJ⁺11]. **Photography** [WST⁺15]. **Photos** [ZZC12, SSSL13, YJHL11]. **phrasal** [Mar13]. **Physical** [MWS⁺18, PEK⁺16, ZDW19, CXW⁺13, TAL⁺19]. **Pilot** [YMLM16]. **pinpointing** [BMV13]. **pipeline** [LZCS11]. **placement** [LZCS11]. **Plan** [MGS17b, MGSK19, POM20]. **planner** [BKB10, TNSP13]. **Planning** [BWC15, BVK10, RFI⁺11, TBK⁺10, Che10, CKS10, LHC⁺13, PCC10]. **Plans** [Zhu19, ZZKT20]. **plant** [CGMC11]. **Platform** [THL⁺15, Goo10]. **Platforms** [ZGL⁺17, ZT11]. **Play** [SSG⁺20, LCY⁺15]. **Player** [PCF⁺19, TLWZ11]. **PlayerRank** [PCF⁺19]. **Playlist** [ZSLC19]. **PLDA** [LZCS11]. **POI** [CSN⁺17]. **Point** [CYKL16, SCLZ17, YKTL14]. **Point-of-Interest** [CYKL16, YKTL14]. **Points** [YGU15, LPM20]. **Pointwise** [LPM20]. **POIs** [HYC⁺16]. **Policies** [SDHS15]. **POMDP** [FKSS13]. **Popularities** [JLJ⁺20]. **Popularity** [CRYT12, JJ15]. **Population** [FE15]. **Portfolio** [HYL⁺18, LHG11]. **Pose** [DT16, SS15]. **Pose-Invariant** [DT16]. **Position** [WST⁺15]. **Positive** [JJ14]. **Post** [ZWZS16]. **Post-Nonlinear** [ZWZS16]. **Posts** [GW17]. **Posture** [TLW⁺15]. **Potential** [CHP17]. **power** [CGMC11]. **Powered** [SNL⁺16]. **PPLib** [DB16]. **Practical** [GME17]. **Precision** [LXM⁺18]. **Predict** [LH12]. **Predicting** [BMTT16, YLC⁺19]. **Prediction** [CMR15, Dha11, GTM⁺14, JJ14, JWJC16, JD15, LLL⁺18, LZY⁺16, MNSB15, SZS⁺17, TC19, VDL⁺19, BCC⁺13, BSW⁺13, FTCP⁺13, LMWS13, YNS13, YLT13]. **Predictive** [SMGMC⁺15, WW13]. **Preemption** [DPC16]. **Preface** [Che10, ZLB⁺16]. **Preference** [BLL⁺14, LPM20, PHL⁺20]. **Preferences** [LCKY14, ZCX⁺15, GJ13, RCN10]. **Prerequisite** [CLBM15]. **Presentation** [CCL15]. **Preservation** [GLJ⁺14]. **preserving** [TRZ⁺19]. **Price** [ZZC⁺20]. **Prices** [LPR19]. **Pricing** [HS19, JD15]. **Principles** [TS17]. **Prior** [ZZL⁺19]. **Prioritization** [PSRL12]. **PRISM** [TLLS17]. **Privacy** [GLJ⁺14, HTL⁺20, PPPM18, TRZ⁺19, TC19, ZZD⁺17, HBSC13, WCBK11]. **Privacy-aware** [TC19]. **Privacy-preserving** [TRZ⁺19]. **privacy-sensitive** [WCBK11]. **Probabilistic** [BK11, HLJ11, LCKY14, PG13, WLF⁺18, FGP11]. **Problem** [ZSY⁺12, GXZ⁺11]. **Problem-Solving** [ZSY⁺12]. **Problems** [ODF17, SSS11, SDS12, VKLY18]. **Process** [DB16, LGZ⁺17, LCJ⁺19, MMS17, TY14, VDL⁺19]. **Processes** [BWC15, FNS16, LZ18]. **Processing** [BTVY17, ZSAL20, DL13, LZCS11]. **Products** [HMS⁺14, ZWL⁺19]. **Prof.** [BI17]. **Profession** [TLLS17]. **Profile** [ZS18]. **Profiles** [NTM⁺16]. **Profiling** [FGL17, TWL11]. **Profit** [ACPS17]. **Programs** [DB16]. **Projection** [PKCC18, ZLZ15]. **Promoting** [BBS⁺16, LCC⁺20]. **Propagation** [PEK⁺16, THY⁺11, YJHL11]. **Prospects** [ZGL⁺17]. **Protection** [HTL⁺20]. **protocol** [GS13]. **Protocols** [ST20, BBMP13]. **Providers** [BSRSS16]. **proximity** [CXW⁺13]. **Pruning** [LNO⁺18]. **Psychological** [XZR12]. **PTIME** [BGPYS11]. **Publication** [GLJ⁺14]. **Pulse** [WMR17, ZYW⁺15]. **Purchase** [DSB⁺18, GG15]. **Purpose** [HB12, LS16]. **Purposes** [WLF⁺18]. **QoI** [ZSL⁺15]. **QoI-Aware** [ZSL⁺15]. **qualitative** [FK13]. **Quality** [HDPH16]. **Quantification** [LBP19]. **Queries** [CHHH18, LLY12]. **Query** [AC15, LJC⁺11, BGMS13b]. **Query-Aware** [AC15]. **Question** [GH18, TPG⁺19, WJY⁺18]. **Questions**

[RHT⁺18, TPG⁺19]. **Quick** [HLNL18].

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[CST13, WAL18, YKTL14, CLSL13].

Random-Forest-Inspired [WAL18]. **Rank**

[DGZ15, HBK⁺16, LCN⁺16, LFL⁺20, ODL⁺20, ZLZ15, ZBZX12, ZMH⁺15, SHZ13].

Ranked [UAS15]. **Ranking**

[DOTD16, KCTT16, LNO⁺18, PYD⁺17,

PCF⁺19, TY12, WSGM14, WMH18,

CDK⁺13, LHZ13]. **Ranking-Based**

[WSGM14]. **Rapid** [BL16, LMAP16]. **Rate**

[SSV19]. **Rating** [DBDM16, GW17, ERR13].

ratings [CLSL13, ZDC⁺13]. **RCMC**

[ABO17]. **Re** [LCC⁺20]. **Re-identification**

[LCC⁺20]. **reaching** [BD11]. **Reactions**

[YY15]. **Reactor** [DWKP16]. **reading**

[ESNN13]. **Real** [BB15, BFC⁺17, FSS15,

HLNL18, LM11, TLW⁺15, TTFS18, ZLT15,

ZLY⁺18, ZHZ18, BKB10]. **Real-Life**

[LM11]. **Real-Time** [BB15, TLW⁺15,

TTFS18, ZLT15, ZLY⁺18, ZHZ18, BKB10].

Real-Use [HLNL18]. **Real-World** [FSS15].

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[ZFS⁺19]. **Reasoning** [CXW⁺19, FK13].

recency [CDK⁺13]. **Recognition**

[BDP12, DT16, GWDJ15, HRCT16, JGL⁺15,

KAH⁺16, KHN15, KXZG15, LGL⁺16,

LTS⁺15, LLZW17, MGS17b, MGSK19,

OLY⁺17, SP16, SRJP12, SS11, SZX15,

TLW⁺15, XTW17, YC12, ZGP⁺18, ZZZ20a,

ZCG15, HLJ11, LWZZ13, WLG11, ZPY11].

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[ABO17, WWZ⁺16, ZNYH11, Zhu19].

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[MKL11]. **Recommendation** [BBS⁺16,

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DPSS19, EK15, FXHM16, FSS15, HMCW15,

LJL⁺17, LHS18, LM11, LAS20, OOD⁺17,

SMX15, TLC⁺14, TC19, VNL⁺11, WST⁺15,

WYC⁺17, WYD⁺18, ZWXZ12, ZZZ⁺11,

ZFS⁺19, ZCX⁺15, BGMS13a, CFG13, GJ13,

HBSC13, LHZ13, SBD13, SLH13, SSSL13].

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JJ15, KSKÇ15, MG16, WLC⁺16, YKTL14,

ZC15, ZNWC14, ZDC⁺13, ZX11].

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[AT15, CWLZ15, CSTZ16, DJS16, ODL⁺20,

RZS⁺15, GCZ13, QSRGDAJD13].

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[XZH⁺17, BVCH13]. **records** [TEP11].

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Recursive [MGJW20]. **RECYCLE** [HY11].

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[LCD17]. **Refined-Graph** [LCD17].

refinements [GS13]. **Refueling** [ZYW⁺15].

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[CCZ⁺15, LWWX20, ZNWC14, CGMC11].

Region-Adaptive [CCZ⁺15]. **registration**

[TLWZ11]. **Regression** [LHS18]. **Regret**

[ZZZ⁺20b]. **Regularization**

[LCD17, LFL⁺20, WZHL14, SZC11].

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Regularized [XTW17]. **regulative**

[BBMP13]. **Reinforcement**

[BC19, GJSC16, NDW⁺19, WXZ⁺16].

Related [KXZG15, SR17]. **Relational**

[SLWW13]. **RelationLines** [CXW⁺19].

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[CXW⁺19, RHF16, WC12, MKL11].

Relationship [CRYT12, LLY12, ODP⁺17].

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[TPG⁺19]. **Relevance**

[BBS⁺16, MRJ16, WLC⁺16, FPVC13].

Relevant [GLL⁺17]. **Reliable**

[HBSC13, MZL12, SLR⁺16]. **Relocation**

[WLC⁺20]. **Remaining** [VDL⁺19].

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[HCTC12, MRW⁺12]. **Removal**

[HJCK20, CZLS13]. **Rendering** [KKG18].

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[DTL15, FL20, GQY⁺19, HJCK20, LTS⁺15, YLY⁺19, ZLZ15, ZCL⁺18, SHZ13].

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Representations [GH18, FKSS13].

Reputation [MOC⁺11]. **Research**

[CAB⁺13, WW13]. **Residuals**

[SGTK20, ZZGH19]. **Resilient** [JLL18].

resolution [CST13]. **Resource**

[DPC16, FT10]. **Resources**

[CLBM15, PMR⁺17, CXW⁺13].

respiratory [LMWS13]. **Response**

[CMR15, ZFQX20]. **Restoration** [CHY15].

Restricted [BFHP12, SRMW19]. **Result**

[KCTT16, XXL⁺17]. **Results**

[AGP17, KZL⁺17, ZWZS16]. **Resume**

[ZW19]. **ResumeVis** [ZW19]. **Ret** [BI17].

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[CHHH18, Pai16, PSLB12, SR17, SST⁺15,

WJY⁺18, WZZ⁺16, YWZ⁺17, ZYH⁺17,

ZWH17, ZB20, ZLC⁺20, CZLS13, WH11b].

Return [HCTC12]. **Retweet** [LMC⁺15].

Retweeting [ADJ⁺20]. **Revealing** [FE15].

Reversion [HYL⁺18]. **Review** [BTTT19,

IVS⁺16, WXLY12, YC12, ZFH⁺18].

reviews [ZDC⁺13]. **RFID** [FGL17]. **RGB**

[FDE15, HYZ15, ZYT⁺15, ZSS⁺15, ZLT15].

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[FDE15, HYZ15, ZYT⁺15, ZSS⁺15, ZLT15].

Rhetorical [RHT⁺18]. **Rich** [FC15, Min16].

right [BD11]. **Risk**

[GJSC16, GJC17, NYBG17, PPPM18,

VKLY18, BSW⁺13, OY13, RCN10].

Risk-Scoring [NYBG17]. **Risk-Sensitive**

[VKLY18]. **Road** [FL20, RXK⁺17]. **Robot**

[HAAM12, TBK⁺10]. **Robots**

[ZS18, CKS10]. **Robust** [EMF12, FXR⁺17,

HBK⁺16, HNA20, HCJM15, WHR13,

YLY⁺19, ZYT⁺15, ZYSL12, ZGP⁺18]. **Role**

[DJS16, HGE17, MPA13]. **Romagna**

[CGMC11]. **Rotorcraft** [MJVL16]. **Route**

[DCF⁺18]. **Routes** [HLL14, WPL13].

Routine [LCLN18]. **routines** [FGP11].

Routing [CGZ18]. **Rover** [EBG⁺12]. **Rule**

[LLL⁺16]. **Rules** [CDR19, CFG13]. **Rumor** [MGJW20].

S [HRCT16]. **S-SMART** [HRCT16]. **Safety**

[YLS15]. **SAGE** [WYC⁺17]. **Saliency**

[LJLZ19, ZFH⁺18, LLF⁺19]. **Salient**

[ZLZ15, ZZL⁺19]. **SAT** [LHC⁺13].

SAT-based [LHC⁺13]. **Satellite** [LPR19].

Scalable

[BMTT16, CMR15, CCK⁺18, PFS17,

RXK⁺17, SSL⁺18, VNL⁺11, ZLC⁺20]. **Scale**

[ASW⁺19, CQZ⁺12, HDTG15, HKMN20,

LJC⁺11, MFLP14, PCC17, PCL18, ZQP⁺15,

ZL19, DLGT19, FGP11, Hsu11, WTK⁺19].

scene [SSZ⁺13]. **Scenes** [LXM⁺18].

Scheduling [GJSC16, GJC17, SMGMC⁺15,

TAL⁺19, RYS10]. **Schematization**

[RHF16]. **Scheme** [TRZ⁺19, YTH17].

Science

[BTL20, EBG⁺12, HCTC12, WCBK11].

Science-guided [BTL20]. **Scientific**

[CWR⁺16]. **Score** [RSCOVCMM17].

Scoring [HKMN20, NYBG17]. **Seam**

[LC15]. **Seam-Carved** [LC15]. **Search**

[AGP17, AC15, CWCK15, CCC⁺12,

KCTT16, LCV17, LCM⁺12, LTW⁺16,

LJC⁺11, MOC⁺11, QCL15, RGH19,

SNL⁺16, SSL⁺18, WH11a, XXL⁺17, JPL13,

WLH10, WPL13, YSJ13]. **Searching**

[JTZ⁺11]. **second** [ESNN13].

second-language [ESNN13]. **Section**

[CC12, CCC⁺12, GST12, HJTZ12, HTDJ12,

LZCQ12, SY12, ZCWY14a, CABD13, Edi13,

FS13, GCZ13, KN13, LLWC13, RY13,

WDSZ13, YNS13, YZEC13]. **Sections**

[DCM15]. **Secure** [LLLC19, ST20, YTH17].

Securely [KP17]. **Security**

[HGE17, WMA20]. **Seeding** [VS11].

Segmentation [HCJM15, LCN⁺16,

LWXX20, TS17, YLX⁺20]. **Selected**

[CCL15]. **selecting** [OSM⁺13]. **Selection**

[GLL⁺17, HYL⁺18, JLL18, LYW⁺19, FT10,

LHG11]. **Selective** [CCZ⁺15]. **seller** [ZC13].

Semantic

[CDW⁺19, DOTD16, HRCT16, HYC⁺16, YCP⁺13, ZW19, BGMS13b, CZLS13, CBP13, LKD13, SSZ⁺13, YLT13, CDLV13]. **Semantically** [GLL⁺17]. **Semantics** [HNV14, SC17, Siz12]. **Semi** [JYT⁺12, MFI19, ZY12, ZW19]. **Semi-Boosted** [MFI19]. **Semi-Local** [JYT⁺12]. **Semi-structured** [ZW19]. **Semi-Supervised** [ZY12]. **Semiparametric** [CDGZ16]. **Sensed** [HCTC12]. **Sensing** [CTY⁺19, GCY⁺15, LCCT12, MRW⁺12, THL⁺15, ZSL⁺15, ZYW⁺15]. **Sensitive** [HLL14, VKLY18, LHC⁺13, WCBK11]. **Sensitivity** [MFI19]. **Sensitivity-Based** [MFI19]. **Sensor** [SMX15]. **Sensors** [HYZ15, LCCT12]. **sentence** [CL13]. **sentential** [BMV13]. **Sentiment** [PT12, RHD⁺12, HLGW13]. **sentiment-topic** [HLGW13]. **Separation** [ZYH⁺17]. **Sequences** [ASW⁺19, LAsO⁺19, LJC⁺11, YZL⁺19]. **Sequencing** [CLBM15]. **Sequential** [WH18, ZC15]. **Series** [EL14, WC12]. **Serum** [RFJ16]. **Service** [BSRSS16, FLLX18, JPS⁺16]. **Services** [SMGMC⁺15, TPG⁺19, BGMS13a, KN13]. **Set** [LPM20]. **Settings** [HDTG15, WZYM19]. **Shallow** [ZZKT20]. **shape** [TDVC13]. **Shapley** [SRMW19]. **Shared** [CZJL15, PMR⁺17]. **Sharing** [EL14, LCM⁺12, TRZ⁺19, dMFA⁺13]. **Sharp** [SDXG16]. **Short** [CDW⁺19, ZWXZ12]. **Short-Text** [ZWXZ12]. **Shot** [LCY⁺18, WZYM19]. **Siamese** [SC17]. **side** [WHJ⁺11]. **Sided** [PKCC18]. **Sign** [BLNN20, JJ14, SZX15, ZZZ20a]. **Signatures** [BC19]. **Signed** [BTL20]. **Significance** [XZS20]. **Significant** [CPHL15, LYWW18]. **Similar** [CCL15, DPSS19]. **Similarities** [XZR12]. **Similarity** [EK15, GHZ⁺17, LYWH20, LAS20, SNL⁺16, TRH16, SLH13]. **Similarly** [TRH16]. **Simple** [CMR15, WTK⁺19]. **Simplifying** [HTM15]. **Simulating** [KF18]. **Simulation** [HM19, MFLP14, SZS⁺17, XWC⁺19, FK13]. **Simulations** [CRRH11]. **Simulator** [RXK⁺17]. **Simultaneous** [HRCT16]. **Single** [HJCK20, ZSS⁺15]. **Sites** [ZZZ⁺11]. **Size** [SLR⁺16]. **Skeleton** [BLNN20]. **Sketching** [SPDR15]. **Skills** [YFJ⁺18]. **small** [Dha11]. **Smart** [ASSR18, CPHL15, KHNB15, MMDY15, YLS15, RVRJ11, HRCT16]. **smartphones** [SGD13]. **SmartPM** [MMS17]. **SMARTS** [RXK⁺17]. **SmartTransfer** [DCF⁺18]. **Smog** [XWC⁺19]. **Smooth** [LLDT16]. **Smoothness** [ZCS⁺12]. **SMP** [BTVY17]. **SNAP** [LS16, LCY⁺15]. **Snippets** [CHHH18]. **Snow** [HJCK20]. **Soccer** [PCF⁺19, TLWZ11]. **Social** [ABTS15, ABO17, BTL20, BGMS13b, BCGJ11, BTVY17, CDLV13, CZP⁺14, CHP17, CCW⁺19, CYKL16, CCWS17, DJS16, DSB⁺18, FS17, FZX15, GST12, GZZY17, GW17, GDC19, GTM⁺14, Goo10, HLY⁺14, HTSC⁺17, HL19, JJ14, JGL⁺15, JLX⁺17, LCV17, LC12, LH12, LCM⁺12, LBP19, LHZ13, MOC⁺11, NZW⁺17, PT12, PCL18, PEK⁺16, QSRGDAJD13, RHT⁺18, SFX17, Siz12, STP⁺18, TWL11, TY12, TY14, TRDD12, TLLS17, WXLY12, YZQ16, ZQP⁺15, ZWH17, ZL19, ZZZ⁺11, ZMH⁺15, BCD⁺13, BGMS13a, CBP13, EvdHW13, FTCP⁺13, FK13, Gin13, GCZ13, HCB13, HKO13, LCCS13, LN10, MKL11, SKOM13, SRM⁺13, WCBK11, YNS13, YJHL11, dMFA⁺13, BBGG13]. **Social-Attribute** [GTM⁺14]. **Social-Mobile** [SFX17]. **socially** [YZEC13]. **SocialWave** [STP⁺18]. **sociotechnical** [Sin13]. **Soft** [WZH16]. **solar** [RFI⁺11]. **Solving** [ZSY⁺12]. **Soter** [YLS15]. **Sound** [OOD⁺17]. **source** [WYNW20]. **Sources** [Min16]. **Sourcing** [YMLM16]. **Souvenir** [WST⁺15]. **Space** [BC19, BLAK19, CC12, JCH14, PMR⁺17,

RFI⁺¹¹, CCG⁺¹³, WZY⁺¹⁸, FC15].
SPACE-TA [WZY⁺¹⁸]. **Spaces** [FC15, FDE15, SCLZ17, YZY⁺¹⁷].
Spammer [FXR⁺¹⁷]. **Spammers** [WXLY12]. **Sparse** [FWZ17, GHZ⁺¹⁷, HJCK20, LTS⁺¹⁵, LSZH18, LFL⁺²⁰, TTLG17, WYC⁺¹⁷, WZY⁺¹⁸, ZYSL12, ZLZ15, THY⁺¹¹, YJHL11]. **Sparseness** [CSN⁺¹⁷]. **Sparsity** [XTW17]. **Spatial** [CRRH11, FXHM16, HYC⁺¹⁶, JWJC16, JSL⁺¹⁹, LLDT16, RHF16, SST⁺¹⁵, TTFS18, WYC⁺¹⁷, WFZ⁺¹⁸, WYD⁺¹⁸, WLL⁺²⁰, ZWL⁺¹⁵, DL13]. **Spatial-Temporal** [FXHM16, HYC⁺¹⁶, WYC⁺¹⁷, WFZ⁺¹⁸].
Spatio [HS19, STP⁺¹⁸]. **Spatio-temporal** [HS19, STP⁺¹⁸]. **Spatiotemporal** [DCF⁺¹⁸, Pat15, TEP11, XZS20, ZC15].
Special [AJL18, BTVY17, CKW19, CWLZ15, CALK16, CC12, CL15, CCC⁺¹², CSTZ16, GCY⁺¹⁵, HJTZ12, HYZ15, JLX⁺¹⁷, LZCQ12, SA15, SY12, ZLB⁺¹⁶, ZCWY14a, ZWGW17, BBGG13, Che10, CABD13, Edi13, FS13, GY11, GCZ13, Hsu11, HTDJ11, KN13, LLWC13, Lin11, LN10, RY13, WDSZ13, YNS13, YZEC13, ZPY11, GST12, HLY⁺¹⁴, HTDJ12]. **Species** [SLR⁺¹⁶]. **Specific** [EK15, LBP19, GJ13, SSV19].
Specification [RGH19]. **specifications** [BBMP13]. **Specified** [LCLG19]. **Spectral** [RSCOVCM17]. **Speech** [ZGP⁺¹⁸].
Speed [KP17]. **Sponsored** [AC15, CWCK15, QCL15]. **Sports** [ZDL⁺¹²]. **Spotting** [WLF⁺¹⁸]. **SPrank** [DOTD16]. **Squares** [LHS18]. **ST** [WYC⁺¹⁷]. **ST-SAGE** [WYC⁺¹⁷].
Stability [ZCWZ18]. **Stable** [RGH19].
Start [LHS18]. **State** [BC19, PCC10, RCN10]. **state-dependent** [RCN10]. **Statechart** [KW17].
Statechart-Based [KW17]. **Static** [TAL⁺¹⁹]. **Station** [RFI⁺¹¹]. **Statistical** [LC12, XZS20, Mar13]. **Status** [LCCT12].
STCAPLRS [FXHM16]. **Steganalysis** [LC15, LSQ11]. **Stereotypes** [SR17].
Stereotypical [BNS13]. **Stochastic** [CZJL15, JD15, LH12, TY14, VKLY18].
Stopping [ZCWZ18]. **Storage** [MBR⁺¹⁴].
Store [WXLY12]. **Story** [CQZ⁺¹²].
storytelling [PCC10]. **Strangers** [LMC⁺¹⁵]. **Strategic** [ARGK15, WMA20].
strategies [ERR13]. **Strategy** [HYL⁺¹⁸, OLY⁺¹⁷, RV18, HLT11].
Streamed [DCM15]. **Streaming** [LWH12, ZFWL17]. **Streamlined** [CCL15].
Streams [ABTS15, CQZ⁺¹², RHD⁺¹², ZLY⁺¹⁸, TZY⁺¹³]. **Street** [LPR19]. **Stroke** [LMAP16, ZLZ15]. **Structural** [AKR⁺¹⁸, DWKP16, PS11, RGH19, TS17, CBP13].
Structure [FZX15, HDPH16, LTS⁺¹⁵, VKA⁺¹⁹, WZHL14, WLH17, YL14].
Structure-Based [LTS⁺¹⁵]. **Structured** [FT10, Min16, XTW17, MGJW20, ZW19].
Structures [TWL11, WFZ⁺¹⁸, EvdHW13].
Students [YLC⁺¹⁹]. **Studies** [LLL⁺¹⁶].
Study [EL14, HBL16, MOC⁺¹¹, PHL⁺²⁰, WZS⁺²⁰, EvdHW13]. **Styles** [HWL⁺¹⁷].
Sub [POM20, BMV13]. **Sub-Optimal** [POM20]. **sub-sentential** [BMV13].
Subgraphs [SRMW19]. **Subject** [ZS18].
Subkilometer [DSM⁺¹¹]. **Submodularity** [KG11]. **Subpaths** [XZS20]. **Subspace** [LCD18]. **Subtraction** [CCH15].
Suggestion [LJC⁺¹¹, WFJY12, SLWW13, YJHL11].
suitable [OSM⁺¹³]. **Sulfur** [MRW⁺¹²].
Summarization [ABG⁺¹¹, LTW⁺¹⁶, LZP⁺¹²]. **Summary** [YMC16]. **Superpixel** [LWWX20].
Supervised [PCC17, ZY12, ZCL⁺¹⁸].
Supervision [SP16]. **Support** [AKR⁺¹⁸, SZX15, VKA⁺¹⁹, CL11, ESNN13, KDC13].
Surface [MRW⁺¹², WPA⁺¹²].
surveillance [SSZ⁺¹³]. **Survey** [DT16, JGL⁺¹⁵, SQJ⁺¹⁹, VDL⁺¹⁹, WZYM19, YLX⁺²⁰, ZSAL20, ZB20, ZGL⁺¹⁷, JPL13, LHS⁺¹³, SRM⁺¹³, WH11b].
Survivor [SDXG16]. **Susceptibility**

[ODP⁺17]. **sustainability** [GY11]. **Sustainable** [CGMC11, CRRH11, HMS⁺14, PMSR11]. **Swarm** [HJCK20]. **Switching** [ZZZ⁺20b]. **Synthesis** [WLL⁺20]. **Synthetic** [LMAP16]. **System** [CSTZ16, DJI⁺16, EL14, FXHM16, FLF⁺20, FSS15, KAH12, LLLC19, MZL12, MMS17, NDW⁺19, SNL⁺16, SSG⁺20, SMGMC⁺15, TLW⁺15, WST⁺15, YMLM16, ZLT15, ZWL⁺15, ZW19, ZYH⁺20, ERR13, KDC13, SSZ⁺13, SZC⁺13]. **system-wide** [ERR13]. **Systematic** [ZDL⁺12]. **Systems** [AT15, BC19, BLL⁺14, CWLZ15, CALK16, CZJL15, CRRH11, DJS16, DPSS19, GDC19, HGE17, HJTZ12, HTDJ12, HCJM15, IVS⁺16, KW17, MWS⁺18, ODL⁺20, PMR⁺17, RZS⁺15, SYHB17, TAL⁺19, ZDW19, BNS13, Edi13, FS13, FKSS13, GCZ13, HBSC13, HTDJ11, LLWC13, QSRGDAJD13, RC13, RY13, Sin13, WW13, YZEC13, ZPY11].

Table [ZB20]. **Tag** [BBS⁺16, FSS15, LM11, TC19, ZWH17, CFG13, CZLS13, GJ13, FGL17]. **Tagged** [TRDD12, ZWH17, ZLY⁺18, THY⁺11]. **tagging** [WHJ⁺11]. **Tags** [SC17]. **Tail** [WZS⁺15]. **Take** [LPR19]. **Taken** [ZSLC19]. **Taking** [WMR17]. **Target** [CHP17]. **targeted** [MD13, RBK⁺13]. **Targeting** [EBG⁺12]. **targets** [SZC⁺13]. **Task** [DPC16, LCKY14, NOZ20, TAL⁺19, TTFS18, WZY⁺18, CKS10]. **Taxi** [PHL⁺20, WLF⁺18, WZS⁺20, ZQP⁺15, ZYW⁺15]. **Taxonomy** [SRM⁺13]. **TCP** [HBL16]. **Team** [Zhu19]. **teaming** [TBK⁺10]. **Teams** [SS11]. **Techniques** [DCM15, GH18, SQJ⁺19, ZSY⁺12]. **Technology** [HTDJ12, HTDJ11, WW13]. **Telco** [LZY⁺16]. **Tele** [KXZG15]. **Tele-Health** [KXZG15]. **Telepresence** [HCJM15]. **Tempo** [RSCOVCM17]. **Temporal** [FXHM16, HYC⁺16, JWJC16, LLDT16, PMSR11, PEK⁺16, TY14, WYC⁺17, WYD⁺18, WCS⁺20, YY15, BVCH13, BK11, HS19, LHZ13, STP⁺18, WFZ⁺18, YLT13]. **Temporal-Spatial** [JWJC16]. **Temporal-Spatial-Smooth** [LLDT16]. **temporally** [LHC⁺13]. **Tensor** [WYM17]. **TensorBeat** [WYM17]. **Tensors** [PFS17]. **Term** [CUG⁺12, WZS⁺20, CDS13, SLWW13]. **term-suggestion** [SLWW13]. **TerraFly** [ZWL⁺15]. **Test** [ZWL⁺19]. **testbed** [EvdHW13]. **Tests** [FNS16, BCC⁺13]. **Text** [CDS12, CDW⁺19, GOB⁺12, KCS18, LZCQ12, LZP⁺12, LCY⁺18, RHD⁺12, SDD⁺16, TRH12, WLL⁺20, ZWXZ12, HCB13]. **Text-to-Image** [WLL⁺20]. **Texts** [KXZG15]. **Textual** [NAPI14]. **Texture** [DTL15]. **TextWheel** [CQZ⁺12]. **Their** [CCWS17, LCLG19]. **Theory** [Gin13, JCH14, LMAP16, MRJ16]. **Thermal** [GRR⁺15]. **Thing** [YSN⁺17]. **Things** [YSN⁺17]. **Threaded** [KW17]. **Three** [BLNN20]. **Three-dimensional** [BLNN20]. **TIARA** [LZP⁺12]. **Ticket** [GG15]. **Ties** [HL19]. **Time** [ABG⁺11, BB15, CGZ18, HNA20, HLL14, RSCOVCM17, TLW⁺15, TTFS18, VDL⁺19, WC12, WTK⁺19, WCS⁺20, ZLT15, ZLY⁺18, ZHZ18, BKB10]. **Time-Sensitive** [HLL14]. **Timing** [GG15]. **TIST** [AJL18, BTVY17, CKW19, CL15, LN10, Yan10, ZLB⁺16, ZWGW17]. **Tomographic** [CWR⁺16]. **Tools** [SPDR15]. **Top** [DOTD16, EK15, MG16]. **Top-** [EK15, DOTD16, MG16]. **Topic** [GLL⁺17, GOB⁺12, HYC⁺16, LZP⁺12, PEK⁺16, WZS⁺15, YMC16, YCGH12, CDS13, FGP11, HLGW13]. **Topic-Aware** [PEK⁺16]. **Topic-Based** [LZP⁺12]. **TopicNets** [GOB⁺12]. **Topics** [GLL⁺17, HL17]. **Topological** [WLH17]. **Total** [CGZ18]. **Tourists** [MNSB15, ZNWC14]. **Tournaments** [VS11]. **TPM** [WYD⁺18]. **Traces** [YFJ⁺18, ZQP⁺15, HY11, ZX11]. **Tracking**

[GZZY17, HRCT16, SSZ⁺¹³, YL17, YLX⁺²⁰, ZYSL12, LHS⁺¹³, SZC⁺¹³, TLWZ11].

Tractable [FKSS13]. **trading** [HLT11].

Traditional [SPDR15]. **Traffic** [ABTS15, GLJ⁺¹⁴, HTL⁺²⁰, KZL⁺¹⁷, MFLP14, RXK⁺¹⁷, XWC⁺¹⁹]. **Training** [KCS18, KSL⁺¹⁵, LCJ⁺¹⁹]. **Trajectories** [MJVL16, WLF⁺¹⁸, YCP⁺¹³, YLT13].

Trajectory [BTTT19, FL20, Zhe15, TZY⁺¹³, TLWZ11, WPL13]. **Transductive** [EMF12]. **Transfer** [DJI⁺¹⁶, FC15, LCY⁺¹⁸, PYD⁺¹⁷, WCF⁺²⁰, WYY⁺¹⁹, ZY12, ZCL⁺¹⁸, DSM⁺¹¹].

Transfers [DCF⁺¹⁸]. **Transition** [WYY⁺¹⁹]. **translation** [MD13, Mar13, RBK⁺¹³]. **Transmission** [YZL⁺¹⁹]. **Transportation** [FLF⁺²⁰, ZDW19]. **Travel** [CGZ18, CWC⁺²⁰, LLL⁺¹⁸, TLC⁺¹⁴, WTK⁺¹⁹, ZZC12, WPL13, ZX11].

traveling [TZY⁺¹³]. **Treatment** [LG16, KDC13]. **Treatments** [ABB⁺¹⁵].

Tree [MGJW20, DL13]. **Tree-structured** [MGJW20]. **Trees** [BFHP12, LNO⁺¹⁸].

Trembr [FL20]. **Trend** [ZZC⁺²⁰]. **trial** [LKD13]. **Trip** [VKLY18, WLF⁺¹⁸, WTK⁺¹⁹]. **Truncated** [SDXG16]. **Trust** [OSM⁺¹³, BNS13, FS13, ZC13]. **trusting** [FPVC13]. **Truth** [RFJ16, YL14]. **TSK** [DJI⁺¹⁶]. **tutoring** [FKSS13, LLWC13].

Tweet [ZLY⁺¹⁸]. **Tweets** [SP16, LWZZ13, SWZ⁺¹³]. **Twitter** [AAX13, CDK⁺¹³, KN13, LMC⁺¹⁵, MND14, PT12]. **Two** [LWWL11, PKCC18, SSG⁺²⁰].

Two-Dimensional [PKCC18]. **Two-Word** [LWWL11]. **Type** [LCV17].

Ubiquitous [ZZZ20a]. **UMCR** [YWZ⁺¹⁷].

uncertain [WHJ⁺¹¹]. **Uncertainties** [KHNB15]. **Uncertainty** [CCK⁺¹⁸, LCC⁺²⁰, WHR13]. **Underlying** [ZZKT20]. **Understand** [ZLH18, ZZZ^{+20b}].

Understanding [HYZ15, JTZ⁺¹¹, LJLZ19, ODP⁺¹⁷, RHT⁺¹⁸, TWL11, WZS⁺²⁰, ZYT⁺¹⁵, ZL12, ZL19, ZWL⁺¹⁹].

Unexpected [AT15]. **Unexpectedness** [AT15]. **Unfold** [CQZ⁺¹²]. **Unified** [CYKL16, HCCY15, HRCT16, LXJ⁺²⁰, SZC⁺¹⁴, WLC⁺¹⁶]. **unlabeled** [CCG⁺¹³].

Unsupervised [HWT17, PT12, SSZ⁺¹³].

Unveiling [YSN⁺¹⁷]. **Update** [LLLC19].

Upper [ODF17]. **Urban** [AJL18, CXW⁺¹⁹, CCK⁺¹⁸, DSB⁺¹⁸, KF18, SCLZ17, VKLY18, WFZ⁺¹⁸, YKTL14, ZYW⁺¹⁵, ZCWY14a, ZCWY14b].

URLs [MSSV11]. **Usage** [EL14, FLLX18, LZ18, SMX15, YFJ⁺¹⁸].

Use [HLNL18]. **User** [BLL⁺¹⁴, CRYT12, CTY⁺¹⁹, CDR19, CCC⁺¹², EK15, FXR⁺¹⁷, LCKY14, LPM20, LZY⁺¹⁶, NZW⁺¹⁷, SDD⁺¹⁶, TY12, WZHL14, YFJ⁺¹⁸, YWZ⁺¹⁷, YKTL14, ZCX⁺¹⁵, SWZ⁺¹³, ZX11, dMFA⁺¹³].

User-Generated [CRYT12, CCC⁺¹², SDD⁺¹⁶, ZX11].

User-Specific [EK15]. **User/Item** [LPM20]. **User/Item-Set** [LPM20]. **Users** [ADJ⁺²⁰, CHP17, LH12, LHS18, MND14, NYBG17, CCL13].

Using [BC19, BMTT16, CLBM15, CCZ⁺¹⁵, CWR⁺¹⁶, DB16, DOTD16, FK13, GJSC16, GDC19, GTM⁺¹⁴, GWDJ15, HCTC12, HM19, HWT17, HJCK20, JD15, KCTT16, LPR19, LMAP16, LH12, LCM⁺¹², LLDT16, LWWL11, MFLP14, PCL18, POM20, PS11, RFJ16, RK15, RBK⁺¹³, RSCOVCOMM17, SDHS15, SRB15, SLR⁺¹⁶, SGTK20, SSV19, SRJP12, TY14, TLW⁺¹⁵, XZXM19, YGU15, YY15, YL17, ZWXZ12, ZL12, ZYSL12, ZYH⁺¹⁷, ZLH18, ZZZ20a, CDK⁺¹³, CCG⁺¹³, EvdHW13, FGP11, KDC13, Min16, MGB⁺¹¹, PG13, PCC10, SSSL13, SGD13, TDVC13, VNL⁺¹¹, WTK⁺¹⁹].

Utility [WH18, WCS⁺²⁰].

Valid [GLL⁺¹⁷]. **Validating** [CTY⁺¹⁹].

Validation [KDC13]. **Value**

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