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(k, n) [YC11]. (n, t, n) [LHYZ12]. 1000 [ABJ+17]. 2 [BMAH11]. 3 [GCLD13, JSL16, MKH+12]. $3 + 1$ [Fug12]. ^{2} [NJ17]. $^{\text{th}}$ [KT16]. α [TTL10]. HV^2M [CBZ+16]. i^* [DCG16, MNSA16]. K [HKS+17, Cho13, LZ12, MLLK11, SHN14, Zha12b]. M [MMSD13]. M^3 [DAG19]. n [SPSR17]. $O(1)$ [PNY14]. p [hChSyCwL10]. q [GMS11].

***** [TTC15].

-band [MMSD13]. **-gram** [SPSR17]. **-hour** [ABJ+17]. **-nearest** [Cho13, LZ12]. **-SDH** [GMS11]. **-SIP** [hChSyCwL10]. **-trimmed** [TTL10].

.Net [QOLJG16].

1 [KJ10]. **103** [HST16]. **109c** [Woh16]. **11** [KT16]. **128** [TSLL11]. **13-round** [TSLL11]. **133** [YMM+19]. **148** [WLL19a]. **192/256** [LGLL12]. **1H** [JCYT16].

2.0 [BCG+13, CIB+19, GCC+15, GLJ13, OGK13]. **2009** [CL11]. **2017** [WB19]. **2153** [TTT14]. **23rd** [Bor12]. **256** [LGLL12].

35th [WC16]. **3E** [ZGSH13]. **3G** [Ski13]. **3GPP** [EZOK14].

4.0 [DSGS17]. **4G** [WCC13].

5 [WL15a]. **5W** [JCYT16].

802.11 [WC11]. **83** [AAH12b]. **84**

[YWEL+13]. **85** [WZM12a, XTZX13]. **86** [BKSM14, TTT14, wZfG14a].

9th [LH12].

AADL [MBPM19, YHM+14]. **AAL** [NAB+13]. **ABC** [YAY13]. **abilities** [WS13]. **ability** [WS12, ZXL10]. **abnormal** [GHBD+16]. **absorptive** [MRM16]. **Abstract** [YHM+14, AR12, OMLB16, PC10]. **abstraction** [CS16, SKE10]. **abstractions** [OBS+18]. **academia** [GK18]. **Academic** [BKW10, KBJZ15]. **Accelerated** [AN10, PS14]. **accelerating** [KMK17]. **acceleration** [MN19, XZZ+16]. **accelerator** [GGK19, RBT11]. **accelerator-based** [RBT11]. **acceptance** [DLW+13, OD17, PHR10, RBS19, SCC16, VHL14]. **access** [CH10b, FBB15, FNWL18, GAT15, KKL+11, LLLK12, LH11b, MJ18, MGM10, NZM10, PCCB+11, SM17a, WH15, WS12, ZML17, BDGP13]. **accesses** [EAH+11]. **accessing** [MCV15]. **accountable** [ZZ12]. **accounting** [Al 12]. **accuracy** [CS15, RSB+14]. **Accurate** [LLZW14, PPMM17, TAB+16, BNS12, PSM12, ZCY+16]. **Achieving** [ADET12, AGR19, NSDI16, PDL+16, SLZ12, SPMG18]. **ACL** [PGRQVV12]. **acquisition** [Kel15, LMT16, NK15]. **across** [PAB+17]. **Action** [MAR+19, BP13, TTMI19]. **Action-Oriented** [MAR+19]. **actions** [KHC16, SDB16, VvSvV16]. **active** [LCLP16, YTW+13]. **Activities** [SSR18, Al 12, AAN11, ROR11, RDVC19, Xia13]. **activity** [BS12, ÇB16, DC17, LNY+11, MS16, SGMHJ13]. **actor** [BSK+18, CDRT13]. **Actual** [ETM10]. **acyclic** [LWLL12]. **Ad** [ACSC16, ACL13, BCLW11, hChSyCwL10, CWK10, Cho13, KSHC14, LLHY19, MLHL12, MDO+10, WOC15]. **ad-hoc** [hChSyCwL10, MDO+10]. **Adam** [XCM+12]. **adaptability** [PPMM14]. **Adaptable** [EMSU11]. **adaptation** [APM+14, ADET12, BGEP17, BBD18, BMLL14, CCdL+16, CPYZ14, CG12, EGG+11, FCB+16, GBH+16, GSP+19, GDSB11, JS13, JS16, Pot13, SH17, VSS+11, XCM+12]. **adapted** [TPGdS13]. **Adapter** [XPBC11]. **Adapting** [MHB18, SH17, BJG11, HGP+12, SBB+16, PH13]. **Adaptive** [AR12, ABB15, CKMT10, CT11a, CKC15, HyLW+12, KRD16, LCLF13, LXG10, MSHG18, PWLL13, Aki18, AG15, ARS17, BSK+18, Bar15, CCdL+16, CLH+13, CHLW17, CZC+18, CGPT14, EEAZ13, FS19, FGBC10, GZKL13, HWR17, JC15, KKG+12, LXC13, LWW+10, LZR16, LYC14, MLLK11, MPN+17, MCS+12, ND18, PCHW12, PPMM12, PPMM17, PZ15, QXYL16, SAA+10, SB17a, SYBN12, SRWE10, TJT+18, WDC12, WCX15, WMAS12, WKH11, YXP+18, LLC17, SD16b]. **adaptivity** [ZHGL11]. **Adding** [KCR16, MTF14]. **address** [PN14]. **addressing** [GSN+15]. **adequate** [DW11]. **adjustable** [WL17]. **Adjusting** [MG11, Oja16a, ST11, CV14]. **adjustment** [ANM15, MCC+18]. **ADL** [PFF12, WRTP+13]. **ADLs** [WB15]. **admitted** [MKS+18, SSK19]. **adopt** [PWS+15]. **Adopter** [RNR17]. **Adopting** [LPB19, TTMI19]. **adoption** [BdMSNO+17, CCP18, Che17, EGHO16, FB18, GN15, JLL19, KCV+19, KKA+19, MRM16, NHH+12, SG12, Wu11]. **adoptive** [SS12]. **Advanced** [LJA+11]. **Advancing** [SW19]. **adversary** [dOCS13]. **advertising** [AM10b]. **AES** [BBBP13]. **aesthetic** [LQLC16]. **AFChecker** [LXC13]. **affect** [GGC16, NBM19, SMSH18, SKK+18b]. **affecting** [LRD+19, MP12, PWS+15, Wu11, ZZP15, ZP17]. **affiliations** [ESM19a]. **Affinity** [SK13]. **Affinity-aware** [SK13]. **affordable** [CCG+10]. **after** [KQ17]. **against** [BBBP13, HHH+10a, KKHH11,

OLV15, TLL13]. **age** [SSMvD16]. **agenda** [AS16, FS17]. **Agent** [CCG+10, GGS15, LN13, ATHM17, AN16, BM17, CNKL12, GMPN16, GRBNA10, GCC+15, GZKL13, GGM11, ISM11, JS16, KB16, LG17, MIBV14, SPTM15, SST16, ZMB14]. **Agent-based** [GGS15]. **Agent-oriented** [CCG+10, LN13, ISM11]. **agents** [JSM10, JRO12, SÁMI17]. **Aggregate** [HCT+15, LCC10, Shi10, YDGB+12]. **Aggregate-strength** [HCT+15]. **aggregated** [CCMOM19]. **Aggregation** [Bar15, AKB11, MT10, SGBCP12, YCWW15]. **Agile** [CP15, DvdVA+13, GN15, KSM+16, MB10, ASG17, AVGM19, AdB17, CCP18, CLL14, CBVF19, CNMR18, DPL16, DNBM12, DCT17, DGCA17, FFdRG+14, FMRM15, GTF15, GTF17, HM16, KM14, LSD+16, MHB18, MVSG18, NBF16, NBF+19, OK18, nPHW+16, SS12, SDG17, SNDC13, Sta14, SHHL12, WK15, WCC12, YLA16b, DCP12, HL10, JMML17, LGC17, OD17, RKK16]. **Agile-developed** [OD17]. **agility** [GTF15, JWA14]. **aging** [ACW10, PMMM11]. **agnostic** [ASMM18]. **agreement** [IB11, TLL12, OHJ10]. **agreements** [FSG+11, IYS13]. **Ahab** [SCMS15]. **ahead** [YCF+13]. **aided** [MB17]. **AIOLOS** [VSDD12]. **air** [HWHT11, MPTT14]. **AJAX** [YM13]. **alarming** [BRG+12]. **Alberta** [GV10]. **algebraic** [BBA10, Pra18]. **algorithm** [AR18, AG15, BAI+14, CL17a, CJ13, CWK+13, CS12, DFJ19, EEAZ13, GWW+11, HY11, HWL13a, JK13, JXLC15, JHYK10, KHS11, KSRD10, KSN17, KKHH11, KLB15, LPP15, LLZW14, LHY12, LZ13, LL14, Lin16, LLML13, MMZ+16, MH11, MJZ+10, NDS13, OCC12, PS13, PQBP16, PRN17, PS14, PM10, RFM10, RLL+18, SLW+15, TGKL19, jT12, TTL10, WGZ+12, WX10, YCLY13, YH19, YH10, ZLW+12, ZL17, ZWF+18, ZL12b, ZGL+10, FAM15]. **Algorithms** [FGLI15, BMAH11, DRCA+19, FFV19, HBT16, LWOY16, PLHP+15, PCCK18, RCCVB11, SA11, TdCAF16, VTZ+17, wZfG13, wZfG14a]. **Alibaba** [DLW+13]. **aligned** [WMW12]. **Aligning** [GGT+19, VvSvV16, CRESF+13]. **alignment** [LMR12, UGFK15, VLC+17]. **all-port** [MV10]. **Alleviating** [MARD16]. **allocation** [BMAH11, BV15, BGLG13, CAG17, DM17b, GQ12, HNH15, KHSD10, Luk11, NK15, SWES16, TY18, ZWC+19]. **allowance** [RXY+19]. **Alone** [ESM19a]. **alphabets** [Kan15]. **alternate** [ZLW+12]. **alternating** [WCB+17]. **alternatives** [KK12]. **Always** [GFP11]. **AM** [KKP12]. **Ambient** [ARS10, ABB15, GMPN16, BHH+12, RASL12]. **Ambient-PRISMA** [ARS10]. **Ambients** [ARS10]. **among** [GE15b, HG18]. **amongst** [RHRC13]. **amorphous** [BKSM13, BKSM14]. **amount** [EEAZ13]. **amplification** [DVPY+19]. **Analogy** [ANC11, ANM15, IAA16]. **Analogy-based** [ANC11, ANM15, IAA16]. **analyses** [SNDD19]. **Analysing** [SB17a, SYBN12]. **Analysis** [AV12, CDPM17, SW10, SSP17, WCTK12, AAMS14, AAMS16, AMAY19, AHH+10, AHW10, AS10, ACRD19, AHBA19, BL19, BLL+18, BHH+12, BLTY18, BGG10, BWH10, BRS10, BCL12, BSB12, CCGG14, CS15, CS16, CCN+10, CMM15, CL17b, CVGP13, CCMOM19, DC17, DSGS17, DZT+14, DH13, DOL+16, EH19, EBJ17, FDN+16, FBD+18, FSGYP17, FP18, FMdAR16, GCDY16, GGT+19, HGBS18, HBT16, HRB12, HSL14, HCL+10, HCC10a, HWLM11, IZ18, IYS13, KK17a, KRDH12, KM17, KGW12, KR14, KRJ17, KCV+19, Kim12, KKP12, LJH10, LKJR10a, LKJR10b, LS14, LGL+10, LJM11, MGM10, MJ14, MTF14, MK17, MVSG18, MA10, MNM12, MMTS15, MMB10, NSAK10, dONTF+19, NSM17, OHL17, OMLB16, PDS19, PH13, PPMM17, PDBD18, QBO+14, RAS14,

RPT19, RGH17, RITF+11, RASL12, SG16, ŠK11, SS12, SCwY12, SGC+17, dSSVV11, SRBT18]. **analysis** [SZS13, SLLL14, SLL+15, TNK+19, TXCX19, TCS18, VTZ+17, VCMG17, VHFF+17, WCC12, WLZ+17a, WZY+18, WGKW19, WKV11, WV11, WMOKY11, XYCL17, YAY13, YLXZ16, YFT+15, ZYZ+17, ZZP15, ZP17, dB12, JR15, MS17b]. **analyst** [SJ17]. **analysts** [RDPM19]. **analytic** [LZKW12, MB19]. **Analytical** [EK13, LJC16, VRPT18, MV11]. **Analytics** [UB19, CBVF19, KCR16, LLH+16, VZT17]. **analyze** [SGMHJ13]. **Analyzer** [PÁC13, KH10]. **Analyzing** [CL15, CMR19, JLGM17, KG10, RSB+16, BKRW19, CTKT13, KJS+12, MBPM19, PB11, YAKK16, JLZ+19, vAAJ16]. **anatomy** [TKP+18]. **anchors** [LJ16]. **and/or** [HHKWB16]. **Android** [AAM+17, BCA+19, CCL+19, HBM19, JLL19, KFLS18, LZL+18, LRB+19, LVVTP17, LWBH16, OBS+18, SPCT18, TKZW17, YGN+16]. **Android-related** [LRB+19]. **AndroidOff** [CCL+19]. **angle** [PKS18]. **animation** [KA14]. **annealing** [MK15b]. **anniversary** [WC16]. **annotation** [HA10, LGM+18]. **annotations** [SM17b]. **anomalies** [ZXC+17]. **Anomaly** [SKK+18a, BLL+18, WWZ+14]. **anonymity** [MK15a, YL16]. **answers** [TLWS10]. **ant** [MDO+10, TJH15]. **Antecedents** [GA11, LCCJ10]. **anti** [FHL+18, MSK+17, QZ14, Sta10]. **anti-forensics** [QZ14]. **anti-patterns** [FHL+18, MSK+17, Sta10]. **antipatterns** [KVGS11, TKCR14]. **anytime** [DRCA+19]. **AOSD** [Ano13a]. **Apache** [MK17]. **APDL** [KSKP11]. **aperiodic** [OD10]. **API** [BHVR18, CKCK15, EZG15, KFLS18, NKZ17, SM17b, SPSR17, SCO13, XSL+18]. **APIs** [Sal17, SSSA17]. **app** [GNA17, JED18, LLL+17b, RM19a, vAAJ16]. **appliances** [ZDC+11, ZDC+11]. **applicability** [JWA14]. **Application** [FKWVH19, FCMJ12, AV12, AIE19, AR12, AYZI10, ANG+19, ASMM18, AdAD17, AF16, BBBP13, BCF18, BCL+18, BGG10, CS16, CDA11, CM15, CCL+19, DBCG14, EAH+11, FTSC12, HyLW+12, HWLM11, HSS14, JS13, JRO12, KK17a, KSHC14, LWZ12, MJZ+10, NHH+12, PC15, PHR10, SCGL+18, SCC16, SP14, TTMI19, VSDD12, WCC12, YLYL17, ZSG16, ZYZL12, ZS16, Zha16, DFCPSF15, FM11]. **application-domain** [SP14]. **applications** [AdB13, AAC16, AAB19, AHOP14, ABFM12, BPQP+10, BZ14, BSDD14, BAAD17, BCS18, BK17, BPB19, CG15, CdCAdO18, CLR18, CRKH11, CCGdL16, CRESF+13, CF12, CGPT14, DHC+11, DS16b, DAG19, GE15a, GRBNA10, GBCI11, GZKL13, HGP+12, HCY19, HVK11, HS15, KRJ17, KVH12, KQ17, LXJL10, LZJ+19, LCJ10, LZHS11, LXC13, LASL14, MBD13, MGR+13, MK15b, NOPF12, NK15, NBR+14, OGK13, OD17, PDK+16, PLHP+15, PG15, PMMM11, QGZ+15, RAS14, RHHT18, RLY+13, RAJ15, RB16, RMD11, SRWE10, SC14, Shi17, SC19, SBB+16, SLLL12, TKZW17, TJT+18, TAF+17, UIK17, VVA+15, VSS+11, WVT+14, WWZ+14, WXY+17, WH15, YXH+18, YXP+18, YM13, YGN+16, ZTZ+11, CCCY17]. **applied** [FFV19, PPG+13]. **Applying** [BRS+18, FSGL12, KHMF13, PLHP+15, AdB17, MGB16, PCFRP19, RSB+16, RMCH+14, ZFS15]. **Appraisal** [OKMD12]. **Approach** [CPDM16, HP16, SDB16, Aba13, AIE19, AdB13, AMKD13, AM15, AHBA19, AGC13, ACH19, AF16, AdB17, APS+10, AGR19, BML+13, BKH10, FGB+19, CG15, CF13, CWK+11, CCY11, CHLW17, CZC+18, CBZ+16, CJL11, CHL+13, CAG17, CHCO11, CKL12, CLF+13, CKS15, CGPT14, DBCdP11, DV10, DWC17, DAG19, EGHO16, EZRK16, FVHF+15, FG15, GE15a, GN15,

GMPN16, GGB19, GMLSF+15, GCSSDP+18, GPSS+13, GEM15, HBM19, HdM17, HJ14, HNH15, HNS12, HPF16, HLLS13, IBM11, JS11, JG14, JC15, JCK+17, JMML17, KCT12, KR14, KRJ17, KKH+16, KVGS11, KY10, KKL+11, KLB15, KD18, KTF+16, KR16, KS16, KSS15, KHMF13, LLM+17, LMN10, LMGHB17, LZJ+19, LWXZ10, LT11, LLWL14, LLWL19, LASL14, MMP15, MPTT14, MFMCY12, Mer13, MdFD+15, MA11, MCS+12, MA17, NEM17, OZO+14, PS13, PS15]. **approach** [PB11, PD16, PLGT10, PAR14, PCCK18, PAS+10, RM19b, SCS15, SL10, SAMN12, SÁM+16, SPTM15, SAKZ15, SJC13, SSP17, SHC+11, SA18, SJH+10, TBSvdW18, TB13, TGP11, TT13, TTT14, TTMI19, UIK17, VAM+10, WDC12, WMW+19, WV11, Wu11, WLD16, XYCL17, YSSaR14, YZC15, YJZ17, ZMB14, ZYZL12, ZJZ+17, rBHM17, BBEM11]. **Approaches** [GMMGP15, VLC+17, AJG+15, ABCH13, AAGT16, ALRP16, BKS15, BS15, CNSG12, ESM+19b, FDÁM12, GSM19, JSHW14, MKH+12, PFG13, PMB15, RGV+17, RM19a, SGMHJ13, SS14b, TAF+17, WCC12, WNC17, dNPM18]. **appropriate** [LMPM18]. **approval** [ULS19]. **Approximating** [MMP15, OH15]. **approximation** [YH19]. **apps** [AAM+17, JLL19, LVVTP17, PLVB+18, QXYL16, SPC16]. **AppSpear** [LZL+18]. **April** [KT16]. **AQUArIUM** [CdCAdO18]. **arbitrary** [ÁGBYB+14, GBC16]. **architect** [HFLvV11, MTA+16]. **Architecting** [DLM19, AdB17, PBM19, TZB19, PvV12]. **Architectural** [LL15, RAS14, UB19, BGS+16, BBA10, BMB18, BWH10, CLS+12, CH10c, FLRT19, GLZ15, GSP+19, HZ15, KOS15, KG10, LJA+11, LJDK10, MCV16, MFM10, MPLL18, PSEE12, PPMM14, SB17a, SAMN12, TKCR14, TGE17, Woo12, YLA16a, YLA+17, ZMK12, dRSBA13]. **architecturally** [MSGM17]. **Architecture** [BCEF10, EB14b, KT16, LJH10, LH12, LLGZ13, MAG12, MOH16, SSR18, TKH+11, ARS10, ARS17, APCS10, BKH10, BLTY18, BGG10, BCL12, BKRW19, CCdL+16, CJT+16, ÇT13, CHLW17, CG12, CD10, CFN10, CKS15, DYC19, EK13, ELHC13, FCB+16, GAMW14, GBH+16, GGvH+18, GFP11, GKV14, GCLD13, GAKF13, GDSB11, GPL+15, HNZ17, HBM19, HJN11, HA10, HN17, JRO12, KTT+17, KGW12, KL10, KH14, LG17, LPXL10, LLX+11, LLH+16, LZR16, MCC+18, MS16, MEB+10, MKS10, MAH18, ME10, MCV15, NFSM11, NHH+12, PGPC17, Pot13, RPT19, ŠK11, SA12, SLB14, SSS17, SKRB19, SHC+11, SHGT16, TAJ+10, TL14, TFS10, THWC10, UD10, VCB+18, VHFF+17, WB12, WMC17, YLA16b, ZK13, ZML10, ZMK12, dSB12, vHAH12, vHJPB+17, vVT16, vdBSvS+19, ÇT13, EMSU11]. **Architecture-based** [MOH16, CCdL+16, CG12, EK13, FCB+16, GDSB11, LZR16, MKS10]. **Architecture-driven** [MAG12, MEB+10]. **architectures** [AB16, BD10, CBT+14, CNSG12, CHL+13, CV16b, CPDM16, Dut15, DAG19, GCC+15, GA13, HTB12, KRD16, MCV16, MK11, MGvFGCB10, NCWK18, PN14, SRWE10, VZT17, WRTP+13, WB10, BBEM11, MPRS14]. **Area** [MMTS15, DFG+13, HBG+13, LLS11, WCC13, ZÁ15]. **areas** [HWHT11]. **argument** [SGC+17]. **argument-fragments** [SGC+17]. **argumentation** [MOH16, YFT+15]. **ARIA** [Kim12, TSL+11]. **arithmetic** [LWC13]. **arrays** [SH17]. **art** [ACS13, ABL15, GAMW14, LDS+19, MDP+11, MRY17, PMR16, TJT+18, WMAS12, CKMT10]. **artery** [CCWT13]. **article** [Ano19l]. **Artifact** [CFRPC+18]. **Artifact-based** [CFRPC+18]. **artifacts** [GE15b, SRBT18]. **artificial** [DRCG12, KCV11, KR16]. **ask** [BDDS11, vAAJ16]. **aspect** [ARS10, MGvFGCB10, NFSM11, NBR+13, PFF12, SdSLS+19, ZMB14]. **aspect-mining**

[ZMB14]. **aspect-oriented** [ARS10, MGvFGCB10, NFSM11, NBR+13, PFF12, SdSLS+19]. **AspectJ** [FDN+16]. **aspects** [CSF+14, LY18, VM13]. **assembly** [JSM10]. **assertion** [DDF+13]. **assertion-based** [DDF+13]. **assertions** [ABS19]. **assess** [SFMB16, VVA+15]. **assessed** [KM13]. **Assessing** [AKA+15, BHH+10, MPTT14, OLV15, UGFK15, VHL14, NSM17, dAGSdFS+15, SM16, SJH+10]. **Assessment** [CLL14, AD14, BP13, EFSJM17, FG15, JWA14, KCAS13, KLA+19, LGM+18, LMS12, LHLG+15, MACB19, MGvFGCB10, PHBJ16, RDVC19, SL10, SED16, SLLL14, WTG+11, Woo12, ZADA15]. **asset** [BWW+18]. **assets** [LMN10, TTL+13]. **Assignment** [KA17, BNS12, CdCMdMSNdA16, KHS11, LSE12, LCLS16, LMPM18, LZ13, LL14, MLHL12, MJ14, SAKZ15, Wen16, ZGL+10]. **assist** [CHN19a, CKS15, SHGT16]. **assistance** [SPSR17]. **Assisted** [BHH+12, RASL12, APS16, GMPN16, HHC12, WWL+10, YCG+14]. **assisted-living** [GMPN16]. **Assisting** [GXZ+19]. **assistive** [MCV15, GMLSF+15]. **association** [TL14]. **assumption** [YLA+17, ZG10]. **assumptions** [YLA16a]. **assurance** [AS16, FFWE17, HNH15, OKMD12, WKD+19]. **Astor** [MM19]. **astronomy** [DHC+11]. **Asymmetric** [LTW16, CSS+13]. **Asymmetric-histogram** [LTW16, CSS+13]. **Asynchrony** [JLGM17]. **ATAM** [ZK13]. **ATEMES** [KSH+12]. **ATM** [WMD+10]. **attack** [CWK+13, MBB11, TSL+11, ZZ16, ZL12a]. **attacks** [BBBP13, BCR+19, KPS10, KKHH11, KKP12, OLV15, RZMPM12, TLL13, jWLY+13, YXH+18, ZGZ+13]. **ATTEST** [NC10]. **attitudes** [CLS+12]. **Attribute** [FWCS12, BV15, FNWL18, KAM13, WGC+14, ZML17]. **Attribute-based** [FWCS12, WGC+14, ZML17]. **attributes** [AAC+17, HPF16, LMPM18, NC10]. **ATTributes-based** [NC10]. **auction** [BV15, KBRV17, KBRV18, TY18, ZSB19]. **auction-based** [KBRV18, TY18, ZSB19]. **audio** [BCA+19, yWpNyL11]. **audit** [ZHAY12]. **auditing** [YYS+16]. **augmented** [LGH+17, SS13, VSS+11]. **Augmenting** [ZYY+19]. **AUSTIN** [LMH10]. **authenticated** [WZM12a, WZM12b, YC12, ZG10]. **Authentication** [MKH+12, CTL12, CH10a, EA11, GJ13, GCSÁddP11, HCC10b, HS11b, IB11, Kan15, LH11a, LT13, NB13, SHBC19, TLL12, WKH11, WS13, YSL+10, OHJ10]. **authentication-chaining** [EA11]. **authoring** [PSS11]. **authority** [CKCK15, ZZ12]. **Auto** [TSCB19, AIE19, DVV+16]. **auto-decomposition** [AIE19]. **Auto-scaling** [TSCB19, DVV+16]. **automata** [DPP+18, WOLS12, WS13, ABCH13]. **Automated** [BPO+16, BNS12, JSM10, JKL19, NBA+17, PS13, PW18, TJH15, TSRC18, WL15b, WBS+10, YFT+15, ASdMGM14, AHBA19, ABC+13, AS17, BSG+18, CCM12, CdCMdMSNdA16, CWK+11, CKS15, DW14, FKWVH19, FGLI15, HBM19, JSHW14, MG12, MGM16, SH17, SPLW17, Ski13, SWES16, VM13, VHFST15, VHFF+17, YLCZ12]. **Automatic** [ÁGBYB+14, ABL15, CL17b, CBSM16, FDÁM12, FMPS16, GLZ15, HAE+15, JEEL16, KSH+12, LPM15, LQLW12, LMPM18, LSLG17, WRTP+13, AAM+17, CCdR+16, GGvH+18, HZ15, HY11, HJ12, HPF16, KBHG17, LNW+11, LHP+09, LHP+10, LDS+19, MSK+17, OGRJ+18, PPS12, SZ11, SAKZ15, TAF+17, WMW+19]. **Automatically** [CHL+19, LHG+18, YFZ+16, ATHM17,

GPD+19, RMCH+14, HRRC16]. **Automating** [CNKL12, KKT17, LZL+18, SKL10]. **automation** [BFLZ13, FVHF+15, GCLD13, KAS18, KMK16, SJR+11, WRR14]. **Automotive** [HBP+17, DNSH13, ELHC13, MSS18, fLSN18]. **autonomic** [EGG+11, MBT16, WTG+15]. **autonomous** [BVV+10, ETYL15, JSM10, KGG18, MSHG18, PBM19, YSDT11]. **availability** [BT17, OCC12, Pot13, SW10]. **available** [CSS10, JLQ+10]. **AVC** [LCC+13, LLML13, LW13c]. **averse** [Kel15]. **avoid** [FGBC10]. **Avoiding** [JSHW14, HST15, HST16]. **aware** [AAC16, AGBD14, AO16, BSDD14, BVV+10, BCS18, CV16a, CDRT13, CYT16, CKC15, DBZ16, DFJ19, DHC+11, EBJ17, FRGC10, GQ12, GDSB11, HGMB13, JLQ+10, KC16, KRJ17, KSHC14, LJC16, LWL+13, LZ13, LL14, LC11, LXC13, LVPMPCLS13, MOD+19, MJ18, MRT17, MDO+10, MV11, NK15, OB13, PCCB+11, SRWE10, SGBCP12, SB19, SGEK19, SK13, TKJ15, TdCAF16, TC16b, WWL+10, WWZ+14, Wen16, WX10, WZJI14, XCM+12, YZG+13, wZfG13, wZfG14a, wZfG14b, ZWC+19, ZADM10, ZW15]. **Awareness** [TKSRP11, AHOP14, CBC14, DM17a, EZRK16, FHY17, NBM19, NBR+14, SSMvD16, TR18, UD10]. **awareness-** [SSMvD16].

backoff [MAAC17]. **backup** [CRSS14]. **Backwards** [CCGdL16]. **Bad** [KP10, WKbOS17]. **bag** [GGS15, PK10a, MK15b]. **bag-of-tasks** [GGS15, MK15b]. **balance** [Dan17, MB10]. **balanced** [MCC11, NNVD17]. **balancer** [CV16a]. **Balancing** [MSSMDC12, Woh16, BVV+10, CCH14, DY15, FS19, HH17, WSM15, WOC15]. **band** [MMSD13]. **bandwidth** [NJ17]. **banking** [CDA11]. **Barefoot** [BS15]. **barriers** [PWS+15, WRR14]. **base** [HCL12]. **Based** [AAH10, CVGP13, GMGTdFR14, HLS+13, HC15, ASGJ13, ABB19, ABCH13, AN16, AAJD+16, AQK11, AKAA18, AR18, AG15, AYZI10, AAH12b, AKL14, ARS17, AAN11, AGC13, AAB19, AM10a, AWSE19, AHC+11, ANC11, ANM15, BRB14, BKLE18, BSK+18, BM18, BSG12, BBBP13, BMLL14, BAAS13, BPGS13, BRG+12, BCLW11, BDBLP15, BPSK18, CFRPC+18, CCdL+16, ÇT13, CFAP17, CBS16, CV14, CV16a, CCLL11, CTL12, CNL13, CPS11, CMK+11, CWK10, CSS+13, CW14, CXO+15, CPX16, CSN+17, CZC+18, CCL+19, CG12, CBZ+16, CHL+13, CFN10, CHCO11, CKL12, CBC+15, CLF+13, CPR13, DGBE18, DII+17, DY15, DMSG11, DYC19, DPP+18, DK15a, DFJ19, DH13, EAH+11, EA14, EB14c, EUR+13, EK13, FBB15, FWCS12, FYCL13, FVHF+15, FKWVH19, FSPH+16, FFV19, FCB+16, FSS+13, FNWL18, GKD13, GJ13, GVPPM18, GMR17, GKS18]. **based** [GPMI13, GS17, GFP11, GGB19, GKV14, GZY11, GHBD+16, GCSÁddP11, GAKF13, DDF+13, GDSB11, GMS11, GPL+15, GLOM19, GGS15, HBG+14, HP16, HSC15, HJBH10, HBT16, HZH+16, HNH15, HSPD14, HRB12, HRRC16, HNS12, HWC+10, HB13, HWL13a, HWL13b, HCC10a, HYWS11, HWLM11, HPH12, HLWS13, HKS+17, HCC10b, HR10, IAA16, IB11, JS11, JK13, JC15, JXLC15, JS13, JS16, JH10, Jør10, JKL19, KAO13, KK11, KOL+14, KVGS11, KU10, KY10, KKL+11, KLL17, KKA+19, KAM13, KB16, KTF+16, KBRV18, KSS15, KKLB11, KTK19, LKR13, LCT10, LMN10, LC10, LLC10, LKL+11, LESL11, LS14, LCLF13, LXJL10, LQLW12, LHZX12, LWL+13, LG15, LQLC16, LGH+17, LZCL19, LLHY19, LL10, LT11, LH11b, LHY12, Lin12b, LCC+13, Lin14, LLWL14, LDZL15, LNY+11, LBX12, LZKW12, LW13a, LZLC17, LASL14, LLL+14, LHLG+15, LWW+10, LCL15, LTW16, LW13c, LZR16, LLGZ13].

based [MJF10, MOD+19, MKS10, MLD+14, MFTP18, MCV16, MBD13, MJ14, MK17, MLD16, MPN+17, MOH16, MK15a, MBB11, MIUM12, MIBV14, MA11, MGM16, MCS+12, MCKA18, MIKG13, NTT19, NC10, NKMM12, NCW+19, ND18, NPC12, NDS13, OZO+14, OD17, OLZN13, OSH+18, OB13, Pal12, PEO11, PMDH13, PB15, PWY+16, PAOC15, PWW10, Pen11, PCYZ12, PLGT10, PPB16, PPS12, PHR10, PWC12, PÁC13, QXYL16, RNC14, RBT11, RFM10, RRV19, RAK15, RZMPM12, RO13b, RG10, RLY+13, RXY+19, RSBA19, RCPZ19, ROFGFRM13, RMD11, SCMS15, SFMB16, SI12, ST13, SSMvD16, SNM14, SKE10, SRS15, SBZ+17, SPLW17, Shi10, SAKZ15, SA11, SHBA+16, SA16, SV12, SDB16, SHS16, SHC+11, SGW+15, SZW+16, SHGT16, SLLL12, aSRS+10, SHH+15, aSRZ+18, SHBC19, TY18, TG17, TKJL13, TBG13, TB13, TGKL19, TTC18, TSCB19, TPGdS13, TAB+16]. **based** [TKCR14, TTL10, TPKT12, TXCX19, TMTB19, ULS19, UIK17, VCdA+16, VKL16, VHFF+17, WWYZ11, WWLG13, WCC+14, WGC+14, WXY+17, WXZ+17, WFY+19, Wau19, WGZ+12, WKD+19, WDC10, WAWO12, WS12, WWY+12, WOLS12, jWLY+13, WS13, WZJI14, XJZ+15, XLW18, XLM+15, XZZ+16, XB19b, XYZ+19, YSG17, YWHL11, YCLY13, YTW+13, YCC16, YCLC17, YLC18, YH19, YZL+14, YBE17, YGN+16, YKC+12, YFT+15, YZC15, YLZ+16, YLYL17, YZY+18, ZTZ+11, ZLZ11, ZXTT11, ZLW+12, ZM12, ZT14, ZML17, ZHH+17, ZYZ+17, ZWM+18, ZCZZ11, ZZ12, ZGZ+13, Zha16, ZWF+18, ZL12b, ZLmLN14, ZSB19, ZYY+19, dACM17, dL13, dCPV10, dNPM18, WL10, BLUH15, NBH19, TKSRP11]. **basic** [KP10]. **basis** [EVR11, SXYW14]. **batch** [AR18, SRS15]. **Bayesian** [DCT17, KVGS11, PRN17, RSB+16, RBW18, SXYW14, YLYL17]. **BDTEX** [KVGS11]. **Be** [WLL17, FFdRG+14, KM13, ZZ16, ZXC+17]. **beam** [JC15]. **bee** [MCS+12]. **before** [AS10]. **beginning** [GPD+19]. **behavior** [Ala15, AAB19, BPGS13, CRSS14, LGH+17, LLHY19, NJ17, OK11, dMCR19, KMWL12]. **behavior-driven** [NJ17]. **Behavioral** [LFW15, HJBH10, LZLC17]. **behaviors** [JKC19]. **behaviour** [ABJ+17, BPQP+10, HL10]. **behavioural** [BZ10]. **belief** [AC16]. **benchmark** [BGEP17, CDOP15]. **benchmarking** [FMdAR16, SA11, VVA+15]. **benchmarks** [SPC16]. **Benefits** [BS12, BGG10, FDÁM12, LMT16, TTR+13, ZGYS+15]. **Bessel** [GJ13]. **Best** [GFP11, KT16, CL11, NI13, OZO+14, PFL16, ZADA15]. **better** [ABL16, SRSC16, TC16a]. **between** [AJLS10, AC17, BDD+15, BCD+18, CFMRL11, CRC19, CKL12, EZOK14, GBDCR12, GKV14, HSM16, IF19, IBAH12, KBDGAW16, MER17, OBS+18, PPMM14, SCGL+18, SÁMI17, SBDB19, TR18, TGE17, VCMG17, WMW12, vdRBSvV10]. **Beyond** [dMSSS+13, ZK13, AZX14, AT15, Bos12, GL14, MM19]. **bi** [DRCA+19, VRPT18]. **bi-objective** [DRCA+19]. **bibliometric** [KLA+19]. **bidding** [GGC16]. **bidirectional** [DGWC16, SHC+11]. **bidirectional-transformation-based** [SHC+11]. **Big** [SKT17, TLK16b, UB19, GPL+15, LDZL15, SGW+15, VTZ+17, XLM+15, YF15, Dut15, FGD+17]. **bilateral** [jT12]. **binary** [PQBP16, WCC+14, WLZ+17b, ZLmLN14]. **Bioinformatics** [PM10]. **biometric** [GCSÁddP11]. **bit** [PMDH13]. **bit-rate** [PMDH13]. **bitstream** [QZ12]. **BitTorrent** [KA14]. **Black** [AAB19, BAAD17, CF13, ZZ12]. **Black-box** [AAB19, CF13, ZZ12]. **Blackboard** [JRO12]. **blame** [DSGS17]. **Blending** [CSF+14]. **blind** [yWpWyYpN13]. **block** [GCSSDP+18, KM11, LCLF13, WCC+14,

ZL12a]. **Blockchain** [TMTB19]. **Blockchain-based** [TMTB19]. **blocking** [TGKL19, VGSN18]. **blog** [TPTV17]. **blogs** [DV10]. **blood** [HHC12]. **BN** [PSNB11]. **Board** [Ano11a, Ano11b, Ano11c, Ano11d, Ano11e, Ano11f, Ano11g, Ano11h, Ano11i, Ano11j, Ano11k, Ano11l, Ano12a, Ano12b, Ano12c, Ano12d, Ano12e, Ano12f, Ano12g, Ano12h, Ano12i, Ano12j, Ano12k, Ano12l, Ano13b, Ano13c, Ano13d, Ano13e, Ano13f, Ano13g, Ano13h, Ano13i, Ano13j, Ano13k, Ano13l, Ano14a, Ano14b, Ano14c, Ano14d, Ano14e, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano17l, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano19a, Ano19b, Ano19c, Ano19d]. **Board** [Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k]. **boolean** [CHN19b, CW14, Kim17, YCC16]. **Boolean-based** [CW14, YCC16]. **boost** [CBZ+16, LLC17]. **Boosting** [RNC14, ZHGL11, MRJD+12, ROFGFRM13]. **bootstrapping** [AHH+10]. **Bord** [BRG+12]. **Bord-and-Pillar** [BRG+12]. **both** [LWLL12, WCCL10, YLXZ16]. **BotMosaic** [HB13]. **botnets** [HB13]. **Bottom** [PK10b]. **Bottom-up** [PK10b]. **bound** [DAG19, SMZC12]. **boundaries** [Bos12]. **box** [AAB19, BBEM11, BAAD17, CF13, KCAS13, ZZ12]. **BPEL** [LQLW12, aSRZ+18]. **BPM** [LGH+17, THWC10]. **BPM-oriented** [THWC10]. **branch** [LMH10, PS13]. **Brazil** [CCP18, CVGP13, DFG+13, Gar13, LCM+13, NAB+13, dMSSS+13]. **Brazilian** [Bor12, Ano13a, WWSS13]. **breaking** [RvDV17]. **breath** [LSR13]. **brick** [SBAH17]. **Bridging** [CKL12, HS11a, TR18, LVPMPCLS13, SBDB19]. **Bringing** [BBEM11, BMKM15, NTdSX13]. **Broadcast** [RLL+18, CLL10, HST15, HST16, MV11, NSAK10, SM17a, ZZ12]. **broadcasting** [MK11]. **Broker** [WZJI14, KAK+13]. **Broker-based** [WZJI14]. **brokering** [BVV+10]. **brownout** [XB19b]. **BrownoutCon** [XB19b]. **BSN** [HY11]. **buffering** [YZG+13]. **Bug** [MRS18, ACB18, BNS12, CPZF19, HCY19, HK13, LYLC16, MRRS19, SAKZ15, ZCC+19, ZM18]. **bug-fixing** [ACB18]. **Bug-proneness** [MRS18]. **buggy** [WMW+19]. **bugs** [CPZF19, CPRT16, ECS15, VGSN18, WLL17, YLCZ12, ZCY+16, ZFY+19, IBAH12]. **build** [ABJ10, CdR+14, SCC16]. **Building** [GZKL13, BSG12, GSM19, GCSSDP+18, GTF17, KH14, TG17, LJDK10]. **bulk** [HSS10]. **bullying** [GGM11]. **Bundle** [ST11]. **bursts** [SAA+10]. **bursty** [BP15, LJM11, PPMM17, WMOKY11]. **bus** [CTL10]. **Business** [ML18, PCFRP19, BGLG13, CFRPC+18, CO12, CLF+13, FDÁM12, FSG+11, GBDCR12, LPM15, LMGHB17, MSGGL12, Oja16b, OFR+12, PCCLdGP12, ŠK11, SJ17, SS14a, SDB18, SLR16, SK18, SSAS11, TAF+17, VKL16, VvSvV16, RCL14]. **Bypassing** [TKJ16]. **byte** [Kim12].

c [KRDH12, dSACdLF17, CWK+11, EBC10, KTK19, LMH10, MN19]. **c-means** [KRDH12]. **C/C** [KTK19]. **cache** [ÁRMC16, OB13, TDW+14, nWsCqW12, CWK+13]. **cache-aware** [OB13]. **caching** [GLJ13, NTT19]. **CALA** [HRRC16]. **calibration** [LHP+09, LHP+10, NBH19]. **Call** [QGZ+15]. **calls** [TLZ+16]. **cam** [PKS18]. **Camellia** [LGL+10, LGLL12]. **Camellia-192** [LGLL12]. **Camellia-192/256** [LGLL12]. **cameras** [MKH+12]. **Can** [vAAJ16, ZXC+17]. **Canada** [GZ13]. **Canadian** [GV10].

cancelled [AS10]. **capabilities** [KCR16]. **capability** [LLM+17, LT13]. **capacity** [AQK11, BK17, CAG17, LCT10, LBCL10, Lin12b, LCC+13, MRM16, PWLL13, WLH13, WCC+14]. **Capitals** [Woh16, WSM15]. **capstone** [VLL18]. **Capturing** [CBL+15, MH11, PKS18, YAKK16]. **card** [TBSvdW18, ABFM12]. **cards** [HCC10b, KKP12, YSL+10]. **care** [HWdS+15]. **carotid** [CCWT13]. **cascades** [RNC14]. **Case** [RB16, SSP17, AAGT16, ABC+13, AWSE19, BAM17, BS12, BAAD17, CKMT10, CXO+15, CZC+18, CFA+19, EA12, EA14, EA19, EVR11, ELHC13, FMdAR16, GGK19, GPPT16, GSdS16, GEM15, HGBS18, Han12, HWC+10, HCC10a, HPH12, IF10, JWA14, JCYT16, JC15, JAS19, JR15, Kan15, KOS15, KFN19, KJS+12, KVH12, KSM+16, KMG+19, LQLW12, LWZ12, LPB19, MAH18, MVSG18, MCTM11, MPLL+15, MMTS15, PPG+13, PSS+16, PAB+17, PCCLdGP12, PWA+19, RAS14, RASL12, SAA+10, SS12, Shi12, SS14a, SDB18, SGC+17, SCC16, TKP+18, UGFK15, VTZ+17, WGKW19, WKD+19, WRR14, WLD16, YLA+17, ZLL+12, ZYA+18, ZAY19, dB12, dSdMSNO+14, vHAT13, TKSRP11]. **cases** [KSM+16, LLWL19, TAS+18, WZY+18, ZYZ+17, ZZC18]. **Casper** [CBSM16]. **catalogs** [dAGSdFS+15]. **catalogue** [EL10]. **catalogues** [DV10]. **categorization** [ASMM18, BCL+18]. **category** [YFZ+16, ZA12, CPX16]. **Category-choice** [CPX16]. **causality** [CBSM16, CPV+14]. **CBRJS** [KTK19]. **CCA** [SLZ12]. **CCA2** [RG10, ZZ12]. **CDH** [ZG10]. **CDL** [WKZL10]. **celebrate** [WC16]. **Cell** [WCC13, AAMS14, GAT15]. **Cell-related** [WCC13]. **cellular** [WOLS12, WS13]. **censorship** [Shi12]. **center** [LZL+15]. **centered** [KSKP11, ZÁ15]. **centred** [LSLG17]. **centric** [CCY11, OBS+18, PCG+14, RHHT18, WWY+12]. **Certificate** [YLZ+16, LHZX12]. **Certificate-based** [YLZ+16, LHZX12]. **certificateless** [THS12, ZM12]. **Certified** [BDGP13]. **CF** [GSM19]. **chain** [AMAY19, CPS11, Aki18]. **chaining** [EA11, TSCB19]. **chains** [KMK17]. **challenge** [GGS+19, Rya13]. **Challenges** [AZX14, CSMC19, DPL16, VHFST15, BGEP17, BCG+13, Che17, Chr16, CDS19, DGCA17, GDLB16, HM16, JG14, KS19, MSS18, PMR16, Fug12]. **challenging** [MSHG18]. **Chandra** [TG10]. **Change** [HGBS18, SLLL14, AHBA19, AGR19, CS15, CPD+18, CdCMdMSNdA16, DRELHE16, HJBH10, JLGM17, KWS+17, MJZ+10, MMB10, NKMM12, PB11, SVM19, SLL+15, ZcKS17, dOFB+19]. **change-impact** [CS15]. **change-point** [MJZ+10]. **change-proneness** [HJBH10]. **changeability** [SLLL14]. **changed** [GV10, RBS19]. **changes** [BCD+18, DNSH13, JLL19, RvDV17, SPC16, WMW12, WRS+17, YFZ+16]. **Changing** [CLS+12, FS14a, HTB12, KGG18, XYCL17]. **channel** [KKP12, LZ13, LL14, MLHL12, ZGZ+13]. **channels** [HSS10, TNK+19, WGKW19]. **Chaos** [LW13c, jWLY+13, CCLL11, LW13a, PPG+13, jT12, ZLW+12]. **chaos-and-Hamming** [CCLL11]. **Chaos-based** [LW13c, jWLY+13, ZLW+12]. **chaotic** [HRB12, LWC13, NES+14, WGZ+12, ZT14]. **characteristic** [CSW13, MA10]. **characteristics** [CRL+12, CPRT16, DZT+14, DGCA17, EED16, FVHF+15, SJ17, SS15, SA18]. **Characterization** [dMCR19, BPQP+10, DDD14]. **Characterizing** [MRT17, VGSN18, CPZF19]. **characters** [PWC12]. **charging** [LWOY16, LWL+16, LWC+18]. **Chart**

[ZLG10]. **cheat** [WS12]. **cheat-preventing** [WS12]. **checker** [WKZL10]. **Checking** [ZTZ+11, ABFM12, CHLW17, CSS10, EBEL18, LXC13, RSCB18, ZML10]. **Checkpoint** [SBZ+17]. **Checkpoint-based** [SBZ+17]. **checkpointing** [BM18, CLY14, KKH+16, OD10]. **Chen** [LLLK10, YWEL+13]. **China** [DLW+13]. **Chinese** [JKC19]. **chips** [TC16b]. **choice** [CPX16]. **Choquet** [SNM14]. **Chord** [SBZ+17]. **choreographies** [BMKM15]. **chunking** [SHGT16]. **cipher** [AMS+10]. **circuit** [CCdR+16, WMOKY11]. **cities** [AKA+15, PCG+14]. **city** [HWHT11, KLL+11, HWdS+15]. **Class** [NCS10, AR12, Al 12, CCR14, EVR11, MJ14, OWB11, QGZ+15, RO13b, SS15, ZJZ+17, BDO11, FTSC12]. **class-** [RO13b]. **classes** [AC17, CHN19a, ZXL10]. **classification** [DRCG12, KCT12, KU10, KKA+19, LZ12, LLWL19, MRBN17, MRJD+12, SZ11, SS14b, SLLY17, TCK14, VHL14, ZML10]. **classifications** [ALRP16]. **classifiers** [XHM+11, Zha12a]. **Classifying** [dAGSdFS+15, Ala15, CPZF19, GSM19, LHG+18, YFZ+16, HRRC16]. **classroom** [AAN11]. **CLEFIA** [TSLL11]. **CLEFIA-128** [TSLL11]. **client** [BCF18, CWJK13]. **clients** [KNA11, OM13]. **clone** [MRS18, ND18, ZcKS17]. **clones** [BKSM13, BKSM14, MRS18]. **cloning** [MRRS19, ZYZ+17]. **Closed** [WLC13a, NK15, NDS13, OH15]. **closed-loop** [NK15]. **closeness** [WKbOS17]. **Cloud** [AKAA18, FS14b, GDLB16, GGS15, HLS+13, MT13, Rya13, AJG+15, ALRP16, AO16, BMA+13, BV15, BJK+11, Bis13, CNM18, CZG+15, CXO+15, CHL+13, CAG17, CDPM17, DKP+19, DS16a, DFJ19, DEA+14, DM17b, DS16b, EGHO16, FB18, FNWL18, GS17, GGS+19, GGB19, GCSSDP+18, GMMC13, GZS+18, HS15, JCYT16, KSN17, KA18, KQ17, KBRV17, KBRV18, LMT16, LZCL19, LLHY19, LDZL15, LZY+15, LZC14, LCL15, LY18, LZG15, MJ18, MGB16, MK17, MS17b, MBT16, MIKG13, MCV15, NK15, NB13, Oja16a, Oja16b, OSH+18, PWS+15, RQD+17, SKK+18a, SCO13, SBB+16, Som13, SCC16, SS13, SWES16, TY18, TG17, VPMVM+13, WDC12, WCX15, Wen16, WCB+17, XZZ+16, XB19b, YYS+16, YL16, YCLC17, ZWC+19, ZFY+19, rBHM17, Cha17, LZO+13, LZO+16]. **cloud-based** [CXO+15, CHL+13, LDZL15, MK17, TG17, YCLC17]. **cloud-native** [KQ17]. **Cloudera** [MCL+17]. **clouds** [DVV+16, MK15b, SB19, TSCB19, ZSB19, ZHAY12, CdAM+14, KKG+12]. **CLPL** [CX10]. **cluster** [CDGJ10, MAS13, WGC+14]. **Clustering** [CV14, LK13, LWOY16, XZZ+16, BPGS13, CZC+18, CL17b, DFJ19, HR10, KS16, LQC+14, MK16, MJ14, NMM13, TZ12, YH19, ZCZZ11]. **Clustering-based** [XZZ+16, MJ14]. **clusters** [AO16, BLM10, BHH+10, IKBH14, RBT11, SBZ+17, ZHGL11, dACM17]. **CMMI** [WL15a]. **Co** [DRELHE16, SVM19, BSG+18, GGvH+18, HyLW+12, HNH15, KBHG17, SHHL12, WRS+17, dOFB+19]. **Co-change** [SVM19, dOFB+19]. **co-changes** [WRS+17]. **Co-evolution** [DRELHE16, BSG+18, GGvH+18, KBHG17]. **co-fix** [HNH15]. **co-located** [SHHL12]. **co-scheduling** [HyLW+12]. **coal** [BRG+12]. **cocktail** [OHJ10]. **COCOMO** [NBH19]. **Code** [KH10, SED16, WFF18, YC13, AMdLM17, CAHV15, CCLL11, CHL+19, EAH+11, FDN+16, FLRT19, GK18, GE15b, GPD+19, HNZ17, IKBH14, JKL19, KS19, KR14, LK13, LK16, LQLC16, LZL+18, LGM+18, LCL+12, MRS18, MRRS19, MSGM17, ND18, NVPGMPSM17, OM13, OHL17, OKS+15, PAR14, QBO+14, SJR+11, SRJL+18, SPMG18, TAF+17, WDC10, YXH+18, YWHL11, ZTZ+11]. **code-based**

[JKL19]. **code-smells** [OKS+15]. **codebases** [KTK19]. **CodeCloud** [CdAM+14]. **codependent** [VvSvV16]. **codes** [Ala15, BMS11, WYCC13]. **Coding** [BV18, WAWO12, JXLC15, KM11, LWC13, PMDH13]. **coding-based** [JXLC15]. **Coding-error** [WAWO12]. **cognitive** [AMAY19, BPGS13, PV18, AAJD+16]. **cognizant** [HPH12]. **Coherent** [IKBH14, PN14]. **cohesion** [Al 12, BDO11, MJF10, QGZ+15]. **coincidental** [LLWL19]. **collaborate** [vAAJ16]. **Collaboration** [MdOBW+15, ÇB16, CRSS14]. **Collaborative** [ESM+19b, PSEE12, RF18, YSJ13, AAN11, AHOP14, BDG13, CX10, CC11, GLZ15, LLWL14, LWL+16, LOFA17, NOPF12, PRS11, PQBP16, TT13, TTT14, WCB+17, Xia13, XWZC14, HB13]. **CollabRDL** [LOFA17]. **collection** [AKA+15, AN10, KKLB11]. **collections** [SH17]. **Collective** [MAR+19, PGP+19]. **collinear** [LXG10]. **Collision** [KHC16, ZL12b]. **Collision-based** [ZL12b]. **collisions** [RM19b]. **collocations** [WFF18]. **Collusion** [MMSD13]. **colony** [TJH15]. **color** [CPL13, SNM14, yWpWyYpN13, WGZ+12]. **CoM** [LJDK10]. **combination** [BGG10, NSM17, PB15, YLA16b]. **combinations** [MRBN17]. **Combinatorial** [TY18, BV15, KBRV18, ZYZZ14]. **Combining** [CBVF19, DW14, SC19, TC16a, LY18]. **come** [DDMP14]. **comment** [IBAH12]. **Commentary** [WB10]. **comments** [CHL+19, ZYY+19]. **commerce** [DLW+13]. **commercial** [HBR19, KKP12, LZO+13, YSSaR14, vAAJ16]. **commit** [RCPZ19]. **commitment** [EBEL18, WKbOS17]. **commits** [SYXL17]. **commodity** [KMK17]. **Common** [AMKD13, CCWT13, HR10, LRB+19, SCO13, TKZW17, dMCR19]. **communicating** [SK13]. **Communication** [LMS11, MV10, WGKW19, AN16, AHLH16, BML+13, BCD+18, GC13, HSS10, KA14, KKLC12, KM14, LT13, LyWSZ10, MRM16, NK14, SCMS15, TKSRP11, TNK+19, TGKL19]. **Communication-efficient** [LMS11]. **communications** [BBA10, SS13]. **Communities** [SBGT13, ESM19a, GL14, TKH+11]. **community** [Ano13a, ESRF19, KCV+19, LWZ12, QGZ+15]. **Companies** [ESWA18, BV16, GTF17, HBOS13, MVSG18, SNDC13, VHFF+17]. **company** [AT18, DLW+13, TTMI19, YJZ17]. **comparative** [LZO+16, MVLJ18, MRS18, SMS11, SLL+15, TAJ+10, TdCAF16, vHAT13]. **Comparing** [BRB14, BV16, NBF+19, RO13a, SGMHJ13, AAM+17]. **Comparison** [DR12, CRC19, DC11, LMIV15, LFCL12, MA10, NBA+17, OFR+12, OSH+18, RGV+17, TLK16b, ZML10, ZZP15, ZP17]. **compatibility** [FCC+10, KKT17]. **competency** [HJP15, PJK13]. **competition** [HSM16]. **Compiler** [WWL+10]. **Compiler-assisted** [WWL+10]. **compilers** [CWK+11]. **complete** [WL17]. **completely** [SD16a]. **Complex** [CM12, AAA11, BM17, CX10, CHN19b, CL15, CL17b, Cic16, FS19, FGD+17, KGG18, PRN17, SGK12, TS19]. **complexity** [DNSH13, EK12, LWW+10, ZLT10, ZXL10]. **compliance** [MOH16]. **Component** [MPRS14, ADTZ12, ASGJ13, ARS17, BWP16, BM18, BKH10, BCS18, BKRW19, CHCO11, EL10, FM11, FCC+10, GHBD+16, HNS12, KM17, KAM13, LG15, LASL14, MBD13, MA11, PEO11, TAB+16, VCdA+16, YM13, ZLZ11, WL10]. **component-** [LASL14]. **component-based** [ASGJ13, ARS17, BM18, GHBD+16, HNS12, MBD13, MA11, PEO11, TAB+16, VCdA+16, WL10]. **components** [BWW+18, BDLM16, HJ14, ICSK14,

JRO12, LCLP16, LLX+11, MPAA15, OCC13, PDS19, RBT11, RITF+11, SAMN12, SSSA17, SJ17, SS15, YSG17]. **Composing** [LLX+11]. **composite** [Cic16, HS15, LQLW12, LASL14, MK15a, SYT+17, WZJI14, YDGB+12]. **composite-metric** [MK15a]. **Composition** [BWH10, BDBLP15, BBS10, BEK+19, FYCL13, LKL+11, LLZW14, MdOBW+15, MS17b, TBG13, TKK+19]. **Compositional** [SK18, TKJL13, MKS10, SGC+17, TKJ15]. **compositions** [APM+14, BBD18, Mer13, MSL12]. **compound** [KPS10, jT12]. **Comprehensible** [MdFD+15]. **Comprehensive** [OD10, ABJ10, CS15, CPRT16, FBB15, FCC+10, YZC15, rBHM17]. **compressed** [Lin12a]. **compression** [JEEL16, KPT13, QZ14, SI12, WCCL10]. **compression-based** [SI12]. **computation** [DEA+14, TAB+16, YDGB+12, YZL+14]. **Computational** [YGN+16, RHHT18, SRS15, TdCAF16]. **computations** [Shi10, SK10]. **Computer** [BD10, LCJ10, HHC12, HLWS13, Ifi11, KBDGAW16, MB19, MCV15, SLW+15]. **computer/IT** [Ifi11]. **Computing** [TMTB19, AJG+15, ADMOK+10, AR18, AHLH16, ALRP16, AAN11, AGBD14, BV15, CZG+15, DKP+19, EGHO16, FB18, FTC16, GGS+19, GZKL13, HGP+12, HH17, KHSD10, KHS11, KQ17, KBRV17, KBRV18, MT13, MCV15, Oja16a, PNJGF12, RQD+17, Rya13, SY16b, Som13, SGEK19, TY18, TJT+18, TLK16b, WCX15, WLZ+17a, Wen16, XB19b, YL16, YSJ13, ZGSH13, rBHM17, vWSB13]. **conceal** [EEAZ13]. **concealing** [CPL13]. **Concept** [LBX12, MS17b, AACT13, CHN19a, DH13, LMGHB17, YF15]. **concept-drift** [YF15]. **conception** [BGS+16]. **concepts** [CCD19, FM11, KSAR18, TKH+11]. **Conceptual** [RKK16, SA14, AF16, ARH+17, BDPRC18]. **conceptualization** [SOS+16]. **concern** [ADTZ12, FSGL12, RDPM19]. **concern-sensitive** [FSGL12]. **Concerns** [SSR18, CHCO11, PSEE12, VM13]. **concrete** [PC10]. **concurrency** [HK13, SNDD19]. **concurrent** [ACRD19, dSACdLF17, BM18, CL18, LZR16, PTF+15, WLL19a, WLL19b]. **condition** [CCWT13]. **conditional** [EBEL18, FSGW11]. **conducting** [CC11]. **Conference** [BKW10, KT16, LH12, SS17, BCL+18, HL10]. **conferences** [LCM+13]. **CONFIDDENT** [PGRQVV12]. **confidence** [LYC14]. **Confidential** [HS11b]. **configurable** [PSS+16]. **configuration** [BLM10, ESM+19b, HGBS18, JLL19, MSAH16, MAS13, OGRJ+18, SP14, SHBC19, TBG13]. **configurations** [GBH+16, WBS+10, WGS+14]. **conflicts** [EUR+13, HST15, HST16]. **conformance** [ATHM17, LCLP16]. **Confucian** [WKbOS17]. **congestion** [XZP+10]. **congruence** [ZCC+19]. **conjunctive** [BL11]. **connection** [Cic16]. **connections** [Cic16, GBDCR12]. **connectivity** [TZB19]. **connector** [BKRW19, LASL14]. **connector-based** [LASL14]. **connectors** [EL10, NSDI16]. **consecutive** [AT18]. **consequences** [HTB12, SMB17]. **considerations** [ZW15]. **Considering** [BD16, SÁM+16, WWSZ15]. **consistency** [TLGE18, ZcKS17]. **Consistent** [DEW+16, TLWS10, DRELHE16, EA12, KH14, PGRQVV12]. **console** [BLL+18]. **consolidation** [KCV11, LZY+15, LN13]. **constant** [Shi10]. **Constrained** [LW13b, AR18, DVV+16, HZG+12, LZ13, PCCB+11, Sko14, ZCC+17, MGM10]. **Constraint** [LKR13, CCR14, EK12, TFS10]. **Constraint-based** [LKR13]. **constRaints** [LPP15, ACH19, CL17b, CF12, GLZ15, GWW+11, KTT+17, KBHG17, LGS+19,

NBF16, SÁM+16, SRS15, ZTZ+11]. **construct** [KTF+16]. **constructing** [FYCL13, GMPN16, GCSSDP+18, GPSS+13, GAT15]. **Construction** [KK17b, BHM12, CX10, Luk11, RLL+18, SKL10, SMK+18, WWLG13, YKC+12, SBGT13]. **constructs** [MNO18, PTF+15]. **consultants** [CWJK13]. **consumer** [HTB12]. **consumption** [ÁRMC16, APS+10, KA18, PAS+10, SMSH18, XJZ+15]. **Container** [dACM17]. **Container-based** [dACM17]. **containers** [SMSH18, XB19b]. **contemporary** [BGS+16, TNK+19]. **contending** [AAMS16]. **content** [CdR+14, FMPS16, KM17, LHH10, LVPMPCLS13, PÁC13, Shi12, WWSZ15]. **content-aware** [LVPMPCLS13]. **contention** [BLS18, BL19, CYT16]. **contention-free** [BLS18, BL19]. **contents** [LLLK12, LAT10]. **Context** [BDV17, EZRK16, SGP12, AAC16, BD16, BSDD14, CBC14, DBZ16, FRGC10, GMR17, GDSB11, HGMB13, KOS15, KRJ17, KAK+13, KSHC14, LC11, LXC13, LLL17a, MOD+19, MRT17, MSK+17, NK15, NBR+14, PCCB+11, RSBA19, SRWE10, SG16, VKL16, XCM+12, ZYY+19]. **context-aware** [AAC16, BSDD14, DBZ16, FRGC10, GDSB11, HGMB13, KRJ17, KSHC14, LC11, LXC13, MOD+19, MRT17, PCCB+11, SRWE10, XCM+12]. **Context-awareness** [EZRK16]. **context-based** [VKL16]. **Context-oriented** [SGP12]. **context-sensitive** [SG16]. **contexts** [CCY11, KWS+17, LK13, MER17, MHB18]. **contextual** [Aki18, WRS+17]. **continuity** [SMB17]. **Continuous** [BK17, Che17, Cho13, FS17, RHL+17, TGBF17, HMOK18, IBM11, LCC10, SB14, SMB17, YMM+17, YMM+19, FGMM17]. **Continuously** [BKRW19]. **Contract** [DGBE18, ASMN15, TKK+19]. **Contract-based** [DGBE18]. **contrast** [DDD14, GLW13, MM14]. **Contributions** [LN13, CLL14, LMWM18]. **control** [ARS17, BSK+18, BSKL10, BM17, CFL+18, DMSG11, DYC19, EK12, FBB15, FNWL18, HVK11, KKL+11, LBCL10, LH11b, LDS+19, MGM10, NZM10, PCHW12, PCYZ12, PCCB+11, SC19, WXY+17, WLL19a, WLL19b, XZP+10, ZML17, dRSBA13]. **controlled** [HC10, MNSA15]. **controller** [CV14, MMTS15]. **Controlling** [CWJK13, dSB12, CDGJ10]. **conventions** [HAE+15]. **convergence** [KL11, TT10]. **Convex** [LSE12]. **Cooperation** [CRSS14, SSMvD16, dVRB13]. **cooperation-based** [SSMvD16]. **Cooperative** [CMR19, NMM13, ACSC16, BD10, HdM17, KSHC14, FH10]. **Coopetitive** [GD12]. **coordinate** [LOFA17]. **Coordinated** [BSK+18]. **Coordination** [APCS10, SHHL12, NPC12, Sko14]. **copyright** [GJ13]. **Coqcots** [BDLM16]. **core** [CYT16, CKC15, FHL+15, KSH+12, LS14, PN14, PGPC17, WX10, ZCC+17, fLSN18, CD10]. **corporate** [FG15]. **correct** [BHH+12, LLWL19, LJDK10]. **correcting** [BMS11, CV16a]. **correction** [ABS19, LQLC16, OKS+15, YLXZ16]. **correctness** [SMK+18]. **correctness-by-construction** [SMK+18]. **correlated** [HSC15]. **correlation** [LYLC16]. **Correlations** [SMB17, MC10]. **Corrigendum** [APS+10, BKSM14, HST16, LHP+10, TTT14, WZM12a, XTZX13, YMM+19, YWEL+13, wZfG14a]. **corruption** [WLZ+17b]. **cosine** [Lin12b]. **Cost** [ALRP16, LMT16, RB16, SD16b, WAG15, ZGYS+15, AN16, BCLW11, CCL+19, DFJ19, HPH12, JRSN10, KGB11, LXG10, LNW+11, LZG15, MK16, MBF12, MA10, MPAA15, PFO+19, PvV12, Pot13, PACH15, WL15a, WQJZ10, WL17]. **cost-cognizant** [HPH12]. **Cost-effective** [RB16, SD16b, WAG15, DFJ19, LNW+11,

PACH15]. **cost-efficient** [LZG15]. **cost-sensitive** [WQJZ10]. **Costs** [GSdS16, HLWS13, Zha12a]. **COTS** [BWP16, RPK+13, YSG17]. **counterexample** [YXP+18]. **Countering** [YF15]. **Countermeasure** [BP13]. **country** [VBC+14]. **coupled** [CDOP15, EZG15]. **coupling** [AC17, AAM16, CRC19, CCMOM19, DNSH13, FM11, MS16]. **course** [BRS+18, KH10, RF18, RHM+18]. **courses** [vWSB13]. **cover** [UUN13]. **coverage** [AMdLM17, GZY11, LMH10, LT11, LLK11, LCL+12, MGM10, PAR14, SPMG18, WL17, WDC10]. **coverage-based** [WDC10]. **covert** [LT13, LyWSZ10]. **CPSs** [AM15]. **CPU** [BSKL10, CRK+18, DAG19, SMZC12, SK13, YCF+13]. **CPU-bound** [DAG19, SMZC12]. **crash** [GXZ+19, LMS11, PNY14]. **crash-recovery** [LMS11]. **crashing** [GXZ+19]. **create** [LK13]. **created** [KVH12]. **Creating** [SLLY17, Oja16b]. **creation** [CCdR+16]. **creativity** [AVGM19]. **credibility** [SFMB16]. **criteria** [CCP18, EFSJM17, FMdAR16, MK15b, PB15, AKAA18]. **Critical** [DSGS17, CCN+10, KHC16, SNDC13, Sta14]. **Critical-blame** [DSGS17]. **criticality** [CSMC19, LGHR16, PGPC17, XB19a]. **Cross** [CTHW12, GCDY16, HKS+17, SRBT18, AdAD17, DAG19, GD12, GMMC13, KSHC14, MVSG18, NBR+14, RM19a, RA16, SS12, XLL+19, YFZ+16, YJZ17]. **cross-application** [AdAD17]. **cross-case** [MVSG18, SS12]. **cross-company** [YJZ17]. **Cross-factor** [GCDY16]. **cross-functional** [GD12]. **Cross-layer** [CTHW12, KSHC14]. **cross-platform** [DAG19, NBR+14, RM19a, RA16]. **cross-project** [YFZ+16]. **Cross-validation** [HKS+17]. **crosscutting** [Ano13a, CHCO11, VM13]. **crossover** [CV16b]. **Crowdsourcing** [PLVB+18, BS15, GGC16, KA17, LHG+18, MCHJ17, STA19, TT13, TTT14]. **CRT** [KKHH11]. **CRT-RSA** [KKHH11]. **Cryptanalysis** [WWYZ11, LLLK10, LGLL12, RITF+11, SDM10, TSLL11]. **Cryptanalyzing** [ZLW+12]. **cryptographic** [PSdO+13]. **cryptography** [DDD14, LLLK10]. **cryptosystem** [IB11, NZM10]. **cryptosystems** [HRB12, SA16]. **cube** [ZGZ+13]. **CUP** [VHL14]. **curation** [Bis13]. **Current** [BD16, Chr16, dONTF+19]. **curvature** [GJ13]. **curvature-feature** [GJ13]. **curve** [IB11, NZM10]. **curvelets** [ZLmLN14]. **curves** [PSNB11]. **custom** [WLZ+17a]. **customer** [AAMS14, AAMS16, GC13, HHK13, VLL18]. **customer-developer** [GC13]. **customers** [DLW+13, OD17]. **customization** [MVLJ18, PD16, WVT+14]. **customized** [AMGG14, GMPN16]. **CUSUM** [MJZ+10]. **CUTE** [LMH10]. **Cuts** [CJ13]. **CVSS** [HFE10]. **cyber** [AZX14, AWSE19, CSMC19, DMA18, GVPPM18, GBH+16, GSP+19, LS17b, LL15, LDS+19, MPLL18, VSDD12, ZAY19]. **cyber-foraging** [LL15, MPLL18]. **cyber-physical** [AWSE19, GBH+16, GSP+19, LS17b, LDS+19, ZAY19]. **cybernetics** [Cha17, CHLW17, DWC17, LGH+17, LZLC17, LLL17a, YCA17]. **Cybersecurity** [UB19]. **cycle** [Fei12, LMT16, SS15, WB12]. **cyclic** [LWLL12, OCC13].

D [BMAH11, GCLD13, JSL16, MKH+12, SSP+15]. **D-P2P-Sim** [SSP+15]. **DAG** [LCLS16, SRS15]. **daily** [SSD16]. **Data** [CSS10, HNS12, HCL12, KC16, LZCL19, MJ18, MRBN17, SKT17, UB19, AQK11, AG15, ACL13, ACSC16, ÁGBYB+14, AN10, Bis13, BTPLST15, CCGG14, CNL13, CPS11, CDOP15, CLL10, CBVF19, DII+17, DM17a, DIB14, DS12, DK15a, DHC+11,

Dut15, EH19, FS14a, FF12, GZY11, GTY12, dGFDL16, GMGTdFR14, GP10b, GPL+15, GZS+18, HBG+13, HSC15, HY11, HBT16, HST15, HST16, HC10, HCL+10, HWL13b, HSS10, HTH13, IAA16, KRDH12, KCR16, KSAR18, KKLC12, LM13, LCT10, LC10, LZL+15, LCLF13, LJL+12, LBCL10, Lin12b, LCC+13, LDZL15, LTK+15, LWZ+16, Lin16, LZ12, LW13b, LLML13, LZLC17, LKK14, LCL15, LLC17, MMP15, MQG+17, MTF14, MDBC17, MG11, MC10, MIUM12, MT10, MdFD+15, MSL12, MJZ+10, NK15, NBH19, NDS13, OLZN13, PS13, PAOC15, PWC12, QZ12, RSB+14, RLY+13, RHRC13, RHRC15, SM17a, SD16a, SAA+10]. **data** [SG16, SHN14, SAH12, Shi17, SJC13, SGBCP12, SBDB19, SGW+15, TLWS10, TKJ16, TGKL19, TBC+16, TLK16b, TPTV17, VTZ+17, VZT17, WCCL10, WLH13, WYCC13, WLC13b, WCC+14, WLZ+17b, WWY+12, XLM+15, YWWS10, YWTW11, YWHL11, YCLY13, YTW+13, YF15, YYS+16, YZL+14, YM13, ZJZ11, ZHH+17, ZCZZ11, ZHAY12, FGD+17, HBG+14]. **data-centric** [WWY+12]. **data-hiding** [WYCC13]. **data-intensive** [Shi17]. **Data-locality-aware** [KC16]. **database** [BL11, CH10d, EAH+11, HyLW+12, HNS12, KVT+17, LKL+11, LZG15, LGZ+18, PDK+16, RB16, SLLL12, ZTZ+11]. **database-driven** [PDK+16]. **databases** [DK15b, HHK13, JK13, KKR16, Lin12a, MLGA11, RVCM17, VGM13]. **Dataclay** [MQG+17]. **dataflow** [LZJ+19, SMM17, WLZ+17a]. **dataflow-driven** [LZJ+19]. **datasets** [HKS+17, LXG10]. **DCT** [LCC+13]. **DCT-based** [LCC+13]. **DDDAS** [NK15]. **DDS** [PG15]. **deadline** [DVV+16, LSE12]. **deadlines** [CBL+15, HST15, HST16, SK10]. **Deadlock** [PRN17, AHW10]. **Dealing** [FRGC10, Sko14]. **debt** [BMB18, BMB19, CREH+18, FKA16, FSGYP17, GSdS16, LAL15, MS16, MKS+18, MGM16, SSK19, TAV13, YHMS16]. **Debugging** [KVH12, AZvG11, ASdMGM14, BND14, BLC+18, DW14, MJ19, PGP+19, PW18, WWSZ15, XST18, YLCZ12, CA14]. **decade** [DNBM12]. **decaying** [JLZ+19]. **decentralised** [NPC12]. **Decentralized** [EMSU11, HSC15, JS13]. **deception** [DMA18]. **decide** [JK12]. **Decision** [MTA+16, URG10, Zha12a, vVT16, BWP16, BWW+18, DGCA17, DCP12, ETYL15, GLZ15, GPMI13, JLZ+19, OWG19, PWS+15, RPT19, SWA+13, WQJZ10, WPL+18, vHAT13, vHJPB+17, AKAA18]. **decision-making** [BWP16, BWW+18, ETYL15, SWA+13, AKAA18]. **decisional** [LJC16]. **decisions** [CPS11, HGBS18, MAH18, MFM10, SHS16, VM12, vHAH12, vHAT13, vdBSvS+19]. **declarative** [CCGdL10, CGPT14]. **decoding** [BMS11, LHY12]. **decomposition** [AIE19, MDBC17, SJ17, TC11]. **decoupling** [PC10]. **decrease** [MJ18]. **decryption** [FNWL18]. **dedicated** [ZLD13]. **deduplication** [XZZ+16, ZHH+17]. **deep** [DBL+18, RCPZ19, XLX+19, YXH+18, ZLL+12]. **DeepLink** [RCPZ19]. **deExploit** [WLZ+17b]. **defeasible** [KB16]. **Defect** [XLW18, AC16, CSN+17, HNH15, LAT10, MS16, NCW+19, OCC13, ÖT18, PPB19, RSB+16, SLLY17, XLX+19, XLL+19, YJZ17]. **defect-related** [MS16]. **defectiveness** [OY16]. **defects** [CPV+14, WAWO12, XCM+12]. **defense** [DMA18]. **defined** [FFdRG+14, WTG+15]. **Defining** [AAA11, CDGJ10, KBJZ15]. **Definition** [BGEP17, KSKP11, LFW15, MGR+13, RRM17, YKC+12, dSF12]. **Definitions** [ABL15]. **definitive** [RM19a]. **degree** [PD16]. **delay** [CSW10, LZ13, LGS+19, NSAK10, TAB+16]. **delay-constrained** [LZ13]. **delay-tolerant** [NSAK10]. **DelDroid** [HBM19].

Delegatable [WZ11]. **delivering** [SCO13]. **Delivery** [Che17, AN16, LHH10, VvSvV16]. **Delphi** [EGHO16]. **Delta** [LLL+14, YLCZ12]. **Delta-oriented** [LLL+14]. **Demand** [LS14, DR12, HST15, ZLC+14, HST16]. **Demand-based** [LS14]. **demand-driven** [ZLC+14]. **demodulation** [KKP12]. **demographics** [GCDY16]. **deniable** [HS11b]. **Denial** [OLV15]. **density** [ZCZZ11]. **Dependability** [FMdAR16, RASL12, HP16, MBPM19, SXYW14]. **dependable** [SJH+10]. **dependence** [BHH+10, CS16, YLYL17]. **dependences** [MH11, WLL19a, WLL19b]. **dependencies** [BRS10, MSL12, OCC13, SPLW17, dOFB+19]. **Dependency** [ADTZ12, JLQ+10, HJBH10, YZL+14]. **Dependency-aware** [JLQ+10]. **dependency-based** [YZL+14]. **dependent** [FBD+18, IBM11]. **deployed** [BZ14, MHLMG14]. **deploying** [DBL+18]. **deployment** [AHH+10, ABL15, ÇT13, CXO+15, GDSB11, HS15, LLK11, MBAG11, PCCB+11, RHL+17, SMS11, VSS+11, WL17]. **deprecation** [BHVR18]. **depth** [CJ13, KM17]. **dereferences** [CBSM16]. **derivation** [CL17b, CNKL12, LPM15, ROR11, RBW18]. **Deriving** [FSG+11, PFF12]. **describing** [KT12]. **description** [BBA10, GGC16, GS17, LPXL10, XLM+15]. **descriptions** [CHN19a, CHN19b, EVR11, LLL+17b, NBA+17, OFR+12, RDVC19]. **Design** [AHH+10, BDG13, hChSyCwL10, DS16a, HJ12, HCC10a, KLL17, MLGA11, MBD13, PZB10, RLY+13, RAJ15, SM17b, AAN11, AKKS11, ACS13, ARH+17, AAC+17, BPO+16, BD16, BZ10, BHH+12, BPSK18, CSF+14, CFL+18, CNSG12, CKL12, DAR14, EZOK14, FM11, FVHF+15, FSGL12, FMR11, FCRF16, GKD13, GVPPM18, GTA14, GA13, DDF+13, HJBH10, HJP15, KRJ17, LKRYTS18, LJDK10, MCV16, MM19, MRY17, NBR+13, NOPF12, PLGT10, PFF12, PGRQVV12, SCS15, SKRB19, SHS16, SMK+18, SLLL12, TBSvdW18, TJH15, YZC15, YZY+18, ZÁ15, ZFS15, ZADA15, ZLT10, vHJPB+17]. **design-based** [AAN11]. **design-time** [AAC+17]. **designated** [FWCS12, HYWS11, RPSL10]. **designated-verifier** [FWCS12]. **designed** [CFAP17]. **designers** [WK15, vHAT13]. **Designing** [AdB17, DFCPSF15, FHL+18, TLK+16a, AF16, BPB19, DBL+18, GMLSF+15, SJH+10]. **designs** [ATHM17, RF14]. **desk** [ABL16]. **destinations** [WMOKY11]. **detailed** [PFF12]. **detect** [FCMJ12, KSS15, LTK+15, TVMS18, YXH+18]. **detected** [ZXC+17]. **Detecting** [EUR+13, AMdLM17, CHL+19, YZY+18]. **detection** [Aba13, ASMM18, BKLE18, BLL+18, BRG+12, CKCK15, CXO+15, DPP+18, FMR11, HK13, HAE+15, HB13, KVGS11, KCV+19, KHC16, LWB+13, LG17, LYLC16, LTW16, MJZ+10, ND18, PRN17, SG16, SKK+18a, SKE10, SS14b, TLZ+16, WWZ+14, jWLY+13, XTZX12, XTZX13, YWWS10, YLXZ16, ZFS15, ZLC+14, AT18]. **Detector** [PÁC13]. **determination** [HBM19]. **Determining** [NBH19]. **deterministic** [DC11]. **develop** [AdB13]. **developed** [AT18, GN15, LMNA17, OD17, WK15]. **developer** [BCD+18, BMB19, ÇB16, CPD+18, GC13, HSM16, MSK+17, SYXL17, YLCZ12, vAAJ16, LZHS11]. **developer-related** [CPD+18]. **developers** [ABJ+17, BDV17, CBVF19, GFWA18, HHKWB16, HAE+15, LK16, LVVTP17, OBS+18, WL15a]. **Developing** [Aki18, FGB+19, CH11, KSAR18, CDS19, EA12, GMMC13, LMN10, PGPC17, SJR+11, SÁM+16, WRR14]. **Development** [AYZI10, AMGG14, LS17b, AJLS10, AKH12,

ASG17, AVGM19, APS16, AB10, APCS10, AHC+11, BCFP19, BCF18, BMB19, BBS10, Bos12, BS15, CM15, CNG16, CC11, CLL14, CHCO11, CBVF19, CNMR18, DC17, DNBM12, DCT17, DGCA17, DCP12, EL10, Fei12, FAI13, FFdRG+14, FMRM15, FCRF16, GKD13, GRBNA10, GGC16, GD12, GC13, GTA14, GTF17, HGP+12, HP16, HTB12, HVK11, IAA16, JED18, JK12, JST10, JR15, KFN19, Kel15, KRJ17, KSM+16, KM14, KTK19, LCLP16, LGC17, LWSH19, LCCJ10, LSD+16, LWZ12, LHCT19, LRD+19, LASL14, LJ16, MWM12, MKS10, MDP+11, MGB16, MT13, NCK+15, NKZ17, OKS+15, PJK13, PC15, PRS11, PFG13, PGRQVV12, PFL16, PM10, RF18, RM19a, RSGH12, SSMvD16, SKRB19, SWA+13, SB14, SM16, SHHL12, SLLY17, SP14, VAM+10, VM12, WK15, WCC12]. **development** [WWSS13, WBBK18, YLA16b, YHMS16, ZÁ15, ZGYS+15, ZP17, BMKM15]. **device** [ASV+16, OMLB16, SCL13, SHBC19]. **device-related** [SCL13]. **devices** [BJK+11, CDA11, CCdR+16, CTL12, CMK+11, DS16a, GGB19, IB11, LZHS11, PCCB+11, SKE10, SHBC19]. **DevOps** [LPB19]. **diagnosability** [BGLG13, KKH+16]. **diagnose** [WLZ+17b]. **diagnosis** [CBS16, LDZL15, MHLMG14, SKK+18a, WBS+10]. **diagram** [CTKT13]. **Diagrams** [LMIV15, BS12, CCR14, EA19, OWB11, SDB18, TLGE18, GC13]. **diamond** [CSW13, HCL12]. **DIANNE** [DBL+18]. **dictionary** [MBB11]. **did** [DDMP14, SAR15]. **difference** [AQK11, JK13, LCT10]. **differences** [SB14]. **differencing** [HCL12, YWTW11]. **different** [CBAV16, GCC+15, Kan15, LFCL12, MRS18]. **Differential** [Kim12, LGL+10, EMBS17, LLLK10, LGLL12, SDM10, TSLL11]. **diffuseness** [GPD+19]. **Diffusion** [jT12]. **Digital** [BEZ14, AM10b, CIB+19, GMS11, KM11, KLP10, MM14, yWpNyL11]. **dimensional** [DGWC16, LWC+18, LQC+14, TC16b, ZCZZ11]. **dimensions** [FS14a]. **directed** [KPS10, SPC16, ZLL+12]. **Directing** [KK11]. **direction** [WCB+17, YCLY13]. **directions** [BGEP17, VHFST15]. **disabled** [HWdS+15]. **DISARM** [KB16]. **Disaster** [MAEL19, HCL+10]. **discipline** [FP19, PvV12]. **Disciplined** [HL10]. **discourse** [AT15]. **discoverability** [KTK19, SM17b]. **Discovering** [KVT+17, Oja16b, SJC13]. **discovery** [CHL11, GLJ13, HHK13, KK11, KKR16, LGH+17, LLWL14, SdSLS+19, VPL+10, WAWO12, ZWM+18]. **discrete** [AMAY19, Lin12b, WS13]. **discriminative** [YFZ+16]. **disk** [RFM10, SRT+12]. **disk-scheduling** [RFM10]. **disparities** [WL16]. **dispatching** [OB13]. **dissemination** [ACSC16, HSS10, LKK14]. **distinguisher** [AMS+10]. **distortion** [LBCL10]. **distortions** [MBF12]. **Distributed** [BND14, CSS10, KK17a, MLLK11, PNJGF12, PGPC17, XWZC14, AR12, ACRD19, AD14, ABL15, AM10b, ACW10, CDOP15, DBL+18, DKP+19, DK15a, DK15b, EH19, FVHF+15, GSM15, HZG+12, HN17, JRO12, KHSD10, KKH+16, KSENM17, KA14, KM14, KB16, LPP+10, LSE12, LC11, LZR16, MQG+17, MARD16, NNVD17, NPC12, NBR+14, PK10a, PDL+16, SSP+15, SB19, SK10, TR18, TAB+16, THWC10, TLK16b, YCWW15, YCLC17, YZL+14, ZK13, ZLC+14, PD12]. **Distributing** [BGTC18]. **Distribution** [HBG+14, HBG+13, HSPD14, RSB+16, WWSZ15]. **dithered** [UUN13]. **diverged** [MT13]. **diverse** [SNDD19]. **diversity** [CKMT10, SSMvD16]. **division** [MSAH16]. **DiVM** [RSCB18]. **DNA** [WGZ+12]. **Do** [OBS+18, RDPM19, BLLGSMB11, CPRT16, HA10, YHMS16]. **Docker** [SMSH18]. **Document** [CDS10, AF16, DII+17]. **document-driven** [AF16]. **documentation**

[HZ15, MTA+16, VVA+15, YLA+17, ZGYS+15, vHAH12, vHAT13]. **documenting** [AAA11]. **documents** [CH11, HR10]. **Does** [GXZ+19, vHAT13, KS19, SMSH18]. **Domain** [PC10, ACG+15, AMCC14, ARS17, AMK12, BML+13, EMBS17, EZRK16, FH10, GJ13, HGMB13, IZ18, KMK16, LXCM11, LLL+17b, MSS18, MPTT14, PWW10, SKL10, ST13, SHS16, SP14, yWpWyYpN13, YWWS10, KVH12, RASL12, VPdP13]. **Domain-specific** [PC10, ACG+15, AMCC14, ARS17, EMBS17, HGMB13, KMK16, SKL10, SHS16, VPdP13]. **domains** [JHYK10, NES+14, PAB+17]. **DoS-resistant** [HCC10b]. **DOTS** [CL17a]. **Double** [NTRN11, BV15, KBRV17, KBRV18, TY18]. **Double-layered** [NTRN11]. **doubly** [AC16]. **downlink** [WC11]. **Dr.** [TG10]. **drag** [SDB16]. **drag-and-drop** [SDB16]. **DRank** [SPLW17]. **DRE** [TDW+14]. **drift** [BGEP17, YF15]. **Driven** [PMR16, AdB13, Aki18, AF16, AC16, BCF18, BKRW19, FGB+19, CWK+13, CPYZ14, CHCO11, CV16b, ELHC13, FDÁM12, FAI13, GMPN16, GKS18, DDF+13, GEM15, HP16, HVK11, HK13, JPGdL17, KBM18, LZJ+19, LWZ+16, MEB+10, MGB16, MBAG11, MAG12, MB19, MCS+12, MGR+13, MD16, NK15, NJ17, PDK+16, PG15, PBD+12, PGRQVV12, PZ15, RRM17, SAMN12, SBDB19, TKJ16, TAF+17, TTR+13, TGP11, UIK17, VM12, Wau19, WWSS13, WLD16, ZLC+14, BMKM15]. **drivers** [OMLB16]. **drives** [nWsCqW12]. **DRM** [LLLK12, LHH10]. **DRM-protected** [LLLK12]. **DRMFS** [LLLK12]. **drop** [SDB16]. **DS** [NJ17]. **DSFMS** [GPMI13]. **DSL** [MAGC+17]. **DSLs** [BLC+18]. **DSP** [WWL+10]. **DSS** [GRR16]. **DSVerifier** [CIB+19]. **DTN** [ST11, VT14]. **due** [BMB19]. **dumb** [MKRO14]. **duplication** [LYLC16]. **duration** [GGC16, LMA15, PCCK18]. **durations** [LNY+11]. **during** [BRS+18, BKRW19, FB18, MAAC17, RDVC19]. **DyDAP** [SGBCP12]. **Dynamic** [APM+14, APT+12, DVV+16, EGG+11, OCC12, PCCB+11, VSS+11, WCX15, WCTK12, ASV+16, ADET12, AKA+15, AR17, BRB14, BPQP+10, BSKL10, BLM10, CS15, CFL19, CCdR+16, CdSdSG+18, CKCK15, CTL12, CYT16, CS12, DY15, DS12, DZT+14, EA11, DDF+13, JS16, LZL+15, Li11, LJL+12, LG15, LH11b, MCC+18, MAAC17, NK15, OM13, PB15, PLHP+15, PCYZ12, PAR14, PWA+19, RO13b, RLL+18, RMCH+14, SGBCP12, SKF17, THWC10, VKL16, WL16, XJZ+15, YLC18, CBT+14]. **dynamic-circuit** [CCdR+16]. **dynamical** [jT12, Wen16]. **Dynamically** [GAT15, CFN10, QOLJG16]. **dynamics** [ESRF19]. **DYSCS** [CdR+14].

E-business [RCL14]. **e-commerce** [DLW+13]. **e-mail** [MRJD+12]. **EA** [vdRBSvV10]. **Early** [CM15, CREH+18, ÖT18, SMK+18, APS16, FSG+11, NHC13, SG16, SS15, ZK13]. **EAST** [WRTP+13]. **EAST-ADL** [WRTP+13]. **ECC** [LH11b]. **EClass** [KCT12]. **economical** [GPL+15]. **economy** [JK12]. **ECOS** [DFJ19]. **ecosystem** [CRL+12, Han12, KHMA12, LZO+16, PSZ17]. **ecosystems** [AS16, BBS10, Bos12, EB14b, HSS14, HSM16, MH13, Man16, SA12, VA17, VAJ18, vAAJ16, KJS+12]. **ECP** [Cic16]. **ECUs** [fLSN18]. **Edge** [TMTB19, FF12, LTW16, SB19, TJT+18, WCB+17, YCLY13]. **EDGES** [MC10]. **editor** [CCM12]. **Editorial** [Ano11a, Ano11b, Ano11c, Ano11e, Ano11f, Ano11g, Ano12e, GP10a, JWT17, TBG17, Won10, WC16, SY16a, Ano11d, Ano11h, Ano11i, Ano11j, Ano11k, Ano11l, Ano12a, Ano12b, Ano12c, Ano12d, Ano12f, Ano12g,

Ano12h, Ano12i, Ano12j, Ano12k, Ano12l, Ano13b, Ano13c, Ano13d, Ano13e, Ano13f, Ano13g, Ano13h, Ano13i, Ano13j, Ano13k, Ano13l, Ano14a, Ano14b, Ano14c, Ano14d, Ano14e, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano17l, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g]. **Editorial** [Ano18h, Ano18i, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, BKW10]. **editors** [BDV17, CdS18, OPS11]. **education** [AM18, AdB17, CC11, CMR19, FHL+18, GGT+19, MSSMDC12, RZL+18, SW19]. **educational** [vWSB13]. **Effect** [ÇB16, AL10, BDPRC18, CPYZ14, ETM10, HJN11, HNH15, JSL16, SRJL+18, YAY13]. **Effective** [AKB11, CKCK15, HK13, JJC+14, LCC10, ROFGFRM13, CX10, DFJ19, GPL+15, KHS11, KLB15, LNW+11, MQG+17, PCCK18, PACH15, RB16, SD16b, WAG15, WDC10, LXC13]. **effectively** [KTF+16, ZXC+17]. **effectiveness** [JST10, RZL+18, vdRBSvV10]. **effects** [JH10, Jør16, Kan15, KCV11, LJ16, MFM10, SSMvD16, SHBC19, SAN+17, Xia13]. **efficiency** [CW12, DMSG11, GKS18, KCT12, LSNL+19, PAR14, SB12, TDW+14, WH15, WOC15, YM13]. **Efficient** [AMP12, ACSC16, BKLE18, BM18, CCG+18, DRCA+19, GLWY10, GGK19, HL11, JLY14, Kim17, KKR16, LRO19, LHJ10, LZL+15, LWZ+16, LHYZ12, MCKA18, NES+14, NZM10, RO13b, RVCM17, SGO13, WVT+14, WXZ+17, YCLY13, YXP+18, YZL+14, ZGZ+13, ZHAY12, ATvHJ18, ASV+16, BCA+19, Bar15, CDA11, CKCK15, CH11, CLY17, CHL11, CZG+15, DFJ19, EMBS17, EZOK14, FNWL18, GQ12, GCSSDP+18, HWL13a, HSS10, HS15, IB11, JXLC15, KKH+16, KKHH11, KKLB11, LMS11, LH11a, LKL+11, LHZX12, LZ13, LZG15, MPN+17, MSAH16, MT10, NNVD17, OT17, Pen11, PPMM17, PFL16, SM17a, Shi17, TLL12, VT14, WMWZ12, WC11, XB19b, YH10, ZM12, ZGSH13, fLSN18, MC10]. **Efficiently** [YZY+18, LBCL10, LGZ+18]. **effort** [ASMN15, ABL16, ANC11, ANM15, CM15, DCT17, dGFDL16, IAA16, IHA16, JH10, Jør10, Jør16, KM13, LJ16, MdFD+15, NBH19, PCCK18, SPCT18]. **eight** [GTF17, VCdA+16]. **elastic** [HWR17, TSCB19, ZGSH13, dACM17]. **elasticity** [DM17a]. **elasticizing** [GE15a]. **ElasticSFC** [TSCB19]. **elderly** [HWdS+15, TCCH12]. **eLearning** [JRO12]. **election** [LMS11]. **electricity** [LZL+15]. **electrocardiogram** [SLW+15]. **electronic** [WKV11]. **electronics** [HTB12]. **elements** [AMdLM17, FSGYP17, TKZW17]. **Elicitation** [LZLC17, AVGM19, GSM15, PG12]. **eligibility** [DMSG11]. **elimination** [LZ12, WAWO12]. **elitism** [PS13]. **elliptic** [BAAS13, IB11, NZM10, PSNB11]. **embed** [KPS10]. **Embedded** [ABCH13, LPXL10, WCTK12, ÁRMC16, CWK+11, hChSyCwL10, EB14b, DDF+13, HZG+12, HNS12, KSM+16, KSH+12, LC11, LLS11, MFMCY12, MBAG11, NEM17, RAK15, SCwY12, SJH+10, TC12, WWL+10, WWSS13, YSSaR14, dRSBA13, fLSN18]. **Embedding** [LCT10, SÁMI17, AO16, EA11, HCL12, MKH+12, PWLL13, YWWS10]. **emergence** [LN13]. **emergency** [HWdS+15, MPLL+15]. **emergency-care** [HWdS+15]. **emerging** [BCG+13, Han12, VA17, CA14]. **Emotion** [MPLL+15]. **Emotion-led** [MPLL+15]. **emotions** [CFA+19]. **Empirical** [DDMP14, FAI13, FP19, MPLL18, PFL16, RPT19, RSGH12, SAN+17, Wie14, WSJ14, ACG+15, ANG+19, AKKS11, ARH+17,

AB10, ANM15, BRB14, BCD+18, BHVR18, CFL+18, CH10c, CO12, DvdVA+13, DOL+16, EA14, EED16, EBC10, FB18, FLRT19, GTA14, HHKWB16, HP16, HJN11, HKS+17, JSL16, JLL19, KFLS18, KY10, LMH10, LWSH19, LMS12, LCL15, MNS13, MDBC17, MGR+13, MRRS19, MHLMG14, NCS10, dONTF+19, NCW+19, OWG19, PHR10, RDPM19, RNR17, STS+19, SKRB19, SVM19, SLLL14, SKF17, TB13, VBC+14, YC13, YHMS16, ZXC+17, ZFY+19, BWH10, MPTT14]. **empirically** [EA19, GN15]. **empirically-developed** [GN15]. **Employing** [PWA+19, VTZ+17]. **Empowering** [OD17]. **Enable** [MSB18, CdAM+14, PACH15, VvSvV16]. **enabled** [AN10, EZRK16, GGB19, KR14]. **enabler** [LWZ12]. **Enablers** [ESWA18]. **Enabling** [BHH+12, BLUH15, PC15, YYS+16, TC12]. **enactment** [RRM17]. **encoding** [CNL13, CSW13, HCL12, MIUM12, WCCL10]. **encountered** [GSdS16]. **encrypted** [BTPLST15, BL11, CH11, GZS+18]. **encryption** [BAAS13, FSGW11, LWC13, LW13a, LW13c, NES+14, RG10, RPSL10, SNM14, SLZ12, jT12, WWYZ11, WHY+12, WGZ+12, YLZ+16, ZLW+12, ZT14, ZML17, ZZ12, ZL12b]. **End** [BCFP19, SP14, AKL14, CFL+18, CTHW12, FGBC10, GCSSDP+18, HBG+13, HBG+14, KY10, LKP13, LASL14, LSLG17, MNO18, SK10]. **end-to-end** [CTHW12, FGBC10, GCSSDP+18, HBG+13, HBG+14, KY10, SK10]. **End-user** [BCFP19, SP14, AKL14, LASL14, LSLG17, MNO18]. **Endpoint** [AT18]. **ends** [LKJR10a, LKJR10b, PSS11]. **endurance** [nWsCqW12]. **enemies** [WLL17]. **Energy** [BCA+19, CLY17, FHY17, LZL+15, WH15, Wen16, ZWC+19, ASV+16, ÁRMC16, Bar15, CDA11, CZG+15, DM17a, GQ12, HZG+12, JXLC15, KCT12, KA18, LWL+13, LGHR16, LSNL+19, LZC14, MDO+10, MT10, NNVD17, PPMM12, PFL16, SPC16, SMSH18, Sko14, TdCAF16, TC12, VT14, WMWZ12, WC11, XJZ+15, XB19b, YZG+13, ZGSH13]. **Energy-aware** [Wen16, ZWC+19, GQ12, LWL+13, MDO+10, TdCAF16]. **energy-efficiency** [KCT12]. **Energy-Efficient** [LZL+15, BCA+19, CLY17, Bar15, CDA11, CZG+15, JXLC15, MT10, PFL16, VT14, WMWZ12, WC11, XB19b, ZGSH13]. **energy-saving** [LZC14, YZG+13]. **Enforcement** [SSR18, GLZ15, HBM19, ZTZ+11]. **engine** [MSGM17]. **Engineering** [AAC16, CG15, CCCY17, CVGP13, Gar13, HC15, JWT17, LN13, NFSM11, PMR16, PSS11, TGBF17, Woh16, AC19, ADCO18, AS10, AM18, BMA+13, BCFP19, BCR+19, BBND+18, BCL+18, BDBLP15, BRS+18, BDM+19, BCG+13, CdS18, CLR18, CC11, CMR19, CRESF+13, CNMR18, DGRN10, ESM+19b, ETM10, FDÁM12, FVHF+15, FOR19, FKWVH19, FP19, FS17, FCC+10, GPP+17, GCBCD15, GCDY16, GGT+19, GJ16, HBP+17, HP16, HLS+13, HS11a, HJP15, IF19, IZ18, JED18, JPGdL17, JDLS16, KLA+19, KSIZ19, LLM+17, LCM+13, LFW15, LHG+18, LSLG17, LHLG+15, MCHJ17, MACB19, MAGC+17, Mer13, MPLL+15, MSSMDC12, dONTF+19, NBM19, OK18, RF18, RRV19, RAK15, RSBA19, RHM+18, SW19, SGP12, SNL16, San16, STA19, SSSA17, dMSSS+13, SBDB19, Som13, TTL+13, TKP+18, UGFK15, UIK17, VCdA+16]. **engineering** [VLL18, VBC+14, VCMG17, WMAS12, WRdMSN+13, WSM15, WBBK18, WTG+11, WLD16, ZTCZ16, dSdMSNO+14, Bor12, DDMP14, HLS+13, VPMVM+13]. **engineers** [HG18, dSF12]. **engines** [APT+12]. **English** [Kan15]. **enhance** [OCC12, SC19]. **Enhanced** [FHL+15, PPN+15, YCC16, CdR+14, LWC13, TKH+11]. **enhancement** [ULS19]. **Enhancements** [LYLC16]. **Enhancing**

[CPD+18, FVHF+15, KTK19, MKS10, SYXL17, ZCZZ11]. **enrich** [TCCH12]. **Ensemble** [LLC17, ANM15, IHA16]. **ensembles** [SH17]. **ensure** [CH10b]. **ensuring** [ATHM17]. **Enterprise** [ŠK11, BK17, JBSL12, JKC19, LJH10, LLX+11, NHH+12, NB13, RNR17, SS14a, SCC16, WAWO12, dSdMSNO+14, vdBSvS+19, FCMJ12]. **enterprises** [VA17]. **Entity** [DK15a, CTKT13, LWXZ10, MPN+17, WWLG13, ZLZ11]. **Entropy** [WFY+19]. **environment** [CZG+15, FHL+18, KSH+12, LZR16, MJ18, SA11, SSAS11, TT13, TTT14, XZZ+16, YH13, YLC18]. **Environmental** [ZP17, ZZP15, DFCPSF15]. **environments** [AR12, AHH+10, AD14, AdAD17, AM10b, BSG12, CNM18, CFL19, CLL10, GGK19, HMOK18, HGP+12, JS16, KSN17, KSENM17, KK17b, LVPMPCLS13, NK14, PLGT10, PM10, SLW+15, WDC12, XYZ+19, NFSM11]. **EPR** [UUN11]. **equations** [EMBS17]. **equipment** [AAMS16]. **equipments** [AAMS14]. **equivalence** [CHN19a, DPP+18]. **era** [FGD+17, Oja16a]. **ERD** [CTKT13]. **Erlang** [CF13]. **erosion** [dSB12]. **ERP** [CWJK13, Ifi11, MRM16, PD16, RPK+13, SL10]. **Erratum** [AAH12b, LKJR10a, WLL19a, Woh16]. **error** [BMS11, CXO+15, KBM18, LQLC16, LWBH16, MSGGL12, MA10, OBS+18, WAWO12]. **error-correcting** [BMS11]. **errors** [CSS+13, FCMJ12, JSHW14, LCLF13, ZW15]. **ESPRET** [TAS+18]. **estimate** [SA18]. **estimated** [OGK13]. **estimates** [HFE10, Jør16, LJ16]. **Estimating** [LYC14, TTC18, CBAV16, KLB15, LXG10, MH12, WL15a]. **estimation** [ATvHJ18, ANC11, ANM15, CM15, CCL+19, DW11, DCT17, dGFDL16, IAA16, IHA16, JH10, Jør10, Jør16, MBF12, MA10, NHC13, NBH19, PEO11, PD16, PCCK18, PD12, RPK+13, TAS+18]. **estimations** [CBVF19, MPAA15]. **estimator** [SD16a]. **ethics** [WKbOS17]. **evading** [YWWS10]. **evaluate** [ABJ10, CXO+15, HLLS13, MNSA15, MNSA16, SSF15, dOCS13]. **Evaluating** [CBAV16, CPDM16, CFM+16, EA19, Li11, OGK13, SdSLS+19, dOSdAdSG17, FSGL12, LZO+13, RZL+18, SMSH18, YLCZ12]. **Evaluation** [AAH10, LCM+13, ADMOK+10, AKAA18, AK16, AAH12b, ANM15, BHM12, BMAH11, BAM17, BGG10, BT17, BK17, BS15, CdCAdO18, CMK+11, CRC19, CREH+18, CFA+19, EB14a, EA14, EK13, FH10, GLWY10, GDLB16, HRD10, JS11, KGG18, LY18, LLGZ13, MK17, MACB19, MGAN18, MSHG18, OD10, PK10a, PCHW12, PZB10, PCFRP19, PFL16, RLY+13, RM19a, RGH17, SA11, SXYW14, SM16, TB13, TPKT12, Wau19, WR10, WMD+10, WSJ14, ZK13, ZJC+10]. **Evaluations** [YLC18, KOS15]. **even** [HG18]. **event** [BRB14, CM12, FS19, FGD+17, HSPD14, KK17a, LGH+17, PG15, TKJ16, WLL15]. **event-based** [HSPD14]. **event-driven** [PG15, TKJ16]. **event-extraction** [BRB14]. **EventHealer** [TKJ16]. **events** [DM17b, KFN19, TS19, TLA18]. **Everything** [SST16]. **Evidence** [SdSGdMSN+13, DLW+13]. **Evolution** [NKMM12, dONTF+19, PSZ17, VHFST15, ADTZ12, BCL12, BSG+18, BKRW19, CCM12, CHLW17, DRELHE16, DGRN10, GGvH+18, GPPT16, HNZ17, IF10, JLGM17, KBHG17, LGH+17, MPTT14, MD16, NCS10, NBA+15, NSM17, PLVB+18, PS16, PBD+12, RMCH+14, SBT19, SA12, UD10, XYCL17, YAKK16, YLCZ12, ZWF+18, dOSdAdSG17]. **Evolutionary** [GZY11, TCK14, AGR19, CV16b, GTY12, HJ14, PLHP+15, XJZ+15]. **evolvability** [BCL12]. **evolved** [GL14]. **Evolving** [PMR16, WGS+14, HHKWB16, HGBS18, LWB+13, RF14, URG10]. **eVoting** [Pen11]. **exact** [Kim17]. **examination**

[PHR10, RNR17, Sta14]. **Examining** [DGCA17, Ifi11, BMB19]. **exception** [ECS15, KFLS18, SCL13, SHBA+16, ZM18]. **exception-related** [ZM18]. **exceptions** [CF12, HdM17, OBS+18]. **exchange** [RHRC13, RHRC15, WZM12a, WZM12b, YC12, YM13, ZG10]. **exchanges** [JS16]. **executable** [BLC+18, ICSK14, KTT+17, KH14]. **Execution** [BLL+18, KMWL12, RXY+19, ÁRMC16, ACH19, AAA11, CdAM+14, DFJ19, EED16, FDÁM12, GGS15, HCB+16, HSPD14, HS15, JJC+14, KCT12, LWL+13, NCK+15, PH13, PPG+10, SC19, SK18, TAS+18]. **Executions** [MAR+19, ASdMGM14]. **Existence** [MKRO14]. **existing** [MAGC+17]. **Exoneration** [GLOM19]. **Exoneration-based** [GLOM19]. **expansion** [AQK11, JK13, LCT10, ZWM+18]. **expect** [DOL+16]. **expectations** [IF19]. **expected** [GGC16]. **experience** [AL10, FGB+19, CMK+11, CDS19, JS16, NBF+19, SAH12, SJ17, WCC12, WKV11, WB15]. **experiences** [BDG13, HCY19, TCCH12, FH10]. **experiment** [CFRPC+18, MNSA15, RZL+18, SCMS15, WFF18, HWLM11]. **Experimental** [KOS15, BDD+15, BDPRC18, LMIV15, LFCL12, OK11, OFR+12, RM19b]. **Experimentally** [NSM17]. **experimentation** [YMM+17, YMM+19, FGMM17]. **experiments** [JDLS16, MNSA16, SKK+18a]. **Expert** [SSR18, BDDS11]. **expertise** [Ifi11]. **experts** [RDVC19]. **explaining** [DNBM12]. **explanation** [CSN+17]. **Explicit** [Cic16]. **exploitations** [SZ11]. **Exploiting** [ECRVMS11, GE15b, ILZ14, IZ18, TLZ+16, TGE17, VT14, FDÁM12, FHL+15]. **exploits** [WLZ+17b]. **exploration** [JPGdL17, TAV13, vHJPB+17]. **exploratory** [AMdLM17, BS12, CdSdSG+18, ECS15, GCDY16, GW10, JR15, KNA11, MBF12, MAH18, MFM10, RASL12, SS12, TKZW17, WGKW19]. **Exploring** [BAM17, BGG10, IF19, KK12, MM19, OWB11, QGZ+15, SPC16, SG16, ZZC18, JG14]. **exponent** [LCL15]. **exporting** [TTL+13]. **Expression** [NTT19]. **expressive** [MMP15]. **Extendable** [NC10]. **Extended** [GMGTdFR14, CSW10, CH10b, EFSJM17, LMS12, OGRJ+18]. **Extending** [MBT16]. **extensible** [LQLW12, Luk11, OAC11]. **extension** [BMB19, MLGA11, SdSLS+19]. **extensions** [GCAH18]. **external** [Ifi11]. **extra** [TGE17]. **extra-functional** [TGE17]. **extract** [TC11, BDO11, FTSC12]. **extracted** [CCWT13]. **Extracting** [AK15, DCG16, SDB18, SHS16, JLGM17]. **extraction** [AACT13, BRB14, BKS15, BKSM13, BKSM14, CHN19a, EB14c, KKA+19, LZL+18, NBA+17]. **extreme** [GJ13]. **Eye** [KWS+17, GW10].

F [GMGTdFR14, PW18]. **Face** [ZLmLN14]. **faceted** [LAT10]. **facets** [KMG+19]. **facilitate** [GSM15, HBR19, WWLG13]. **facilitating** [KCAS13, MDP+11]. **factor** [GCDY16]. **Factors** [KNA11, MP12, VBC+14, BPGS13, CPD+18, DPL16, Jør14, LRD+19, SNDC13, WR10, Wu11, ZZP15, ZP17, dSF12]. **fail** [AS10, AAB19, BAAD17]. **fail-safe** [AAB19, BAAD17]. **failed** [TTC15, ZYZ+17]. **Failure** [FSS+13, Jør14, DW11, DPVvV19, PD12]. **failures** [AD14, CLY14, WLL17]. **fair** [BV15, HH17]. **fair-share** [HH17]. **fairness** [TT10]. **familiar** [WLL17]. **families** [CGS19, CBAV16, CFAP17, KTF+16, dMCR19]. **family** [MNSA16, PSNB11, PCCLdGP12, dAGSdFS+15, SSS17, TFS10, WDC10]. **far** [DDMP14]. **Fast** [AAH10, PSM12, TT10,

AAH12b, CL13, JHYK10, KAS18, LHY12, MBB11, PQBP16, VvSvV16]. **Fault** [BCS18, MGM10, aSRZ+18, WL16, YSDT11, ZJC+10, Al 12, AM15, ABJ10, BKLE18, BBBP13, CBS16, CCH14, CPR13, DW11, DW14, FP18, GGvH+18, GPSS+13, GXZ+19, GLOM19, JJC+14, KKHH11, Kim12, LGL+10, LLH+16, LLWL19, MLD+14, MdFD+15, MA17, PAR14, TXCX19, WL15b, WWSZ15, WMWZ12, WDC10, XYZ+19, YLXZ16, YLYL17, ZCT+11, ZS16, ZYZ+17, ZZC18, ZXL10, ZHGL11, dCPV10]. **Fault-aware** [BCS18]. **fault-prediction** [dCPV10]. **fault-prone** [MA17, ZXL10]. **fault-proneness** [FP18]. **Fault-tolerant** [YSDT11, GPSS+13, LLH+16, WMWZ12, ZHGL11]. **faultloads** [CSM15]. **faults** [AZvG11, dSACdLF17, AMdLM17, MHLMG14, SRWE10, SPMG18, ZWF+18]. **Feature** [BKS15, KCV+19, TKK+19, AGR19, BGEP17, BAM17, BLUH15, CHN19a, CFAP17, CV16b, GSM19, GJ13, GWW+11, KKL+11, KKA+19, KMG+19, LMN10, LHLG+15, MRBN17, NCW+19, PXT+13, PBD+12, PHBJ16, SdSGdMSN+13, UIK17, WQJZ10, WBS+10, WGS+14, XLX+19, YJZ17, dL13]. **feature-based** [KKL+11, UIK17]. **feature-driven** [CV16b]. **Feature-oriented** [TKK+19, LMN10]. **features** [AKL14, BZ10, BEK+19, CCWT13, CRESF+13, HHKWB16, KAU16, LYLC16, ZLmLN14, ZA12]. **Federated** [KAK+13, AO16]. **federation** [NB13]. **Feedback** [XLW18, CBVF19, ILZ13, LGH+17, LHCT19, NPC12, PCYZ12, RA16, ZJZ+17]. **Feedback-based** [XLW18, NPC12]. **FeGC** [KKLB11]. **Field** [CRSS14, nQYD11, CVGP13, KL11, SCwY12, SCL13, CMK+11]. **fields** [dGFDL16]. **File** [ZCC+19, CCH14, JLZ+19, KA14, LLLK12, LZCL19, Luk11, MCC11, MK17, PNY14, TXLC12, YCLC17]. **File-level** [ZCC+19]. **files** [FSS+13, RBS19]. **Filling** [SCGL+18]. **filter** [AG15]. **filter-based** [AG15]. **filtering** [CCdR+16, KK17a, LLWL14, ND18, PQBP16, ROFGFRM13, Shi12, XWZC14]. **find** [HG18]. **Finding** [dOFB+19, JSHW14, MSGM17, SHGT16]. **findings** [RSGH12]. **Fine** [PPB19, ZML17, FSGW11]. **Fine-grained** [PPB19, ZML17]. **finite** [BKRW19, DCG16, EFSJM17]. **fire** [BRG+12]. **firewall** [PGRQVV12]. **Firm** [CFMRL11]. **firms** [JKC19]. **fission** [HWR17]. **Fitness** [HBT16]. **fitting** [WQJZ10]. **five** [AS10, UGFK15]. **fix** [BCD+18, HNH15]. **fix-inducing** [BCD+18]. **fixed** [FHL+15, Kim17, RXY+19, wZfG14b, dOCS13]. **fixed-priority** [FHL+15, dOCS13]. **fixer** [ZCY+16]. **fixing** [ACB18, JSHW14]. **FL** [FP18]. **FLANN** [DRCG12]. **Flash** [PNY14, CH10d, KKLB11]. **flexibility** [LCCJ10, LWZ12]. **Flexible** [ES14, GBDCR12, KTF+16, GCSSDP+18, ILZ14, KLP10, LMT16, VRG+16, ZL12b]. **FlexIQ** [ILZ14]. **Flipping** [CCGG14]. **flocking** [YSDT11]. **FLOSS** [HBR19]. **Flow** [BCF18, AM10a, ABFM12, CCdR+16, DC17, LQLW12, SG16, APS16]. **FLOW-assisted** [APS16]. **FM** [GSM19]. **FM-CF** [GSM19]. **focus** [AHLH16, BPSK18]. **focused** [WSJ14]. **Fog** [MAR+19, TMTB19, GGB19]. **FogBus** [TMTB19]. **Follow** [SSF15]. **Follow-The-Sun** [SSF15]. **foraging** [LL15, MPLL18, MCS+12, VSDD12]. **forecasting** [LNY+11, SKF17]. **forensics** [QZ14]. **foreword** [SY16a]. **fork** [GL14, OH15]. **fork-join** [OH15]. **form** [BHM12, OH15, Xia13]. **Formal** [BZ10, BCF18, KSN17, WKV11, BHH+12, CTKT13, DAR14, DBZ16, DH13, GKV14, HdM17, MGM10, MA11, AHH+10, MS17b]. **formalism** [KU10, SSF15]. **Formally** [PPS12]. **Format** [CDS10]. **formation**

[LLHY19, OCC12]. **formats** [JH10, ZT14]. **formed** [VA17]. **former** [SNDC13]. **forming** [LS17a]. **formulas** [SGK12]. **FORTUNA** [GKD13]. **forward** [dONTF+19, WLL17]. **Foundations** [DPVvV19, VPMVM+13]. **four** [VBC+14]. **Fourier** [GJ13, yWpWyYpN13]. **FPA** [FP18]. **FPA-FL** [FP18]. **FPGA** [MM14]. **FPT** [YH19]. **FPT-approximation** [YH19]. **FPZL** [dOCS13]. **fractal** [KM11]. **fractional** [MIUM12]. **fragile** [CCLL11]. **fragility** [CIB+19]. **fragmentation** [HSPD14]. **fragments** [SGC+17]. **frame** [LWL+13]. **frame-based** [LWL+13]. **frames** [LCC+13, CKL12]. **Framework** [ILZ14, JS11, TMTB19, AV12, AM13, ATHM17, AK16, AAM+17, BKLE18, BSG+18, BSB12, CNM18, ÇT13, CPX16, CBC14, CMR19, CBC+15, DBL+18, DS16a, DBZ16, DM17b, ETYL15, FBB15, FTC16, FCC+10, FMRM15, GSM19, GKD13, GN15, GPP+17, GPMI13, GSN+15, GDLB16, GMMC13, GZKL13, HGP+12, HZH+16, HSL14, ILZ13, KC16, KH14, KSAR18, KT12, KTK19, LCLP16, LSE12, LHH10, LDZL15, LC11, LNW+11, LLC17, LZR16, MEB+10, MIKG13, MAAC17, NK15, NBR+14, OAC11, OCC12, PPG+13, PWY+16, PSdO+13, PPMM12, PGRQVV12, RGV+17, RAS14, RLL+18, RM19a, RGH17, SJR+11, SA16, SSP+15, SBDB19, SWES16, TKJL13, TPGdS13, TTL+13, TC16b, VM12, VPdP13, VRG+16, VvSvV16, XLL+19, YLA+17, YAKK16, ZLC+14, dRSBA13, fLSN18, rBHM17, vHAH12, CV14]. **framework-intensive** [RAS14]. **frameworks** [CdL18, GAKF13, MDP+11, OLV15, PHR10, ROFGFRM13, SKL10, SPCT18, TJT+18, TKJ15, RCL14]. **Free** [Shi12, BLS18, BL19, DFCPSF15, GW10, HL10, Kan15, RBW18, WDC12, Xia13, YAY13]. **free-spirited** [HL10]. **FreeRTOS** [GPPT16]. **frequency** [CS12, HFE10]. **frequent** [DS12, KKR16, KVT+17, LJL+12, LW13b, MSB18, NDS13, Sal17, ZJL10]. **friendly** [MCV15, PSNB11, WOLS12]. **friends** [EBC10, RNC14]. **front** [PSS11]. **frontiers** [WMC17]. **FSA** [LMS12]. **FTM** [AHH+10]. **full** [JJC+14]. **Fully** [ZZ12, ZML17]. **fun** [GCMB17]. **Function** [EAH+11, CSW13, HBT16, LC10, TSCB19, WWSZ15, LWSH19, SB19]. **Function-as-a-Service** [LWSH19]. **Functional** [ABB15, DRCG12, EGM+11, GD12, GEM15, HPF16, KR16, NSDI16, OMLB16, SA14, TTM13, TGE17, YCG+14]. **functionalities** [RAJ15]. **functions** [LWBH16, MRBN17, TSCB19, TC12, MG11]. **Further** [WHY+12]. **fusion** [TXLC12, YCF+13]. **Future** [CG15, BMA+13, BGEP17, CJT+16, Chr16, DFG+13, Fug12, PMR16, WTG+15]. **fuzzing** [ZLL+12]. **fuzzy** [BSKL10, BMLL14, KRDH12, LLWL19, MMSD13, SFMB16, SNM14, ANC11, MG11]. **fuzzy-based** [SFMB16].

GA [MMSD13, MA17]. **GA-fuzzy** [MMSD13]. **game** [LWL+16, LHCT19, XJZ+15, vWSB13]. **gameplay** [Dan17]. **games** [Dan17, GSM15]. **Gamification** [AM18, GPP+17]. **gangs** [PK10a]. **gap** [CKL12, IF19, PFG13, SBDB19, TR18]. **garbage** [KKLB11]. **GASR** [FDN+16]. **Gateway** [WZM12a, WZM12b]. **Gateway-oriented** [WZM12a, WZM12b]. **gathering** [CFA+19, MC10]. **Gaussian** [ZL17]. **gaze** [KWS+17]. **General** [Woh16, AAM+17, KL10, LNW+11, SNDD19, WSM15, WS12, YC11]. **Generalized** [CCGG14, YDGB+12]. **Generalizing** [SED16]. **generate** [MM19, SGC+17]. **generate-and-validate** [MM19]. **generated** [GPD+19, LW13a, SCL13]. **Generating** [DV10, KTT+17, ZYZZ14, CL18, Cic16, UIK17]. **Generation**

[GKV14, AZ11, AG15, ÁGBYB+14, ABC+13, CLS+12, EVR11, EGM+11, FAM15, GZY11, GTY12, GEM15, HY11, HBT16, HZH+16, HWC+10, KL10, KL11, KD18, MSHG18, PS13, PAOC15, PW18, TAF+17, TGKL19, VRPT18, VPMVM+13, ZAY19, ZYY+19]. **generator** [GP10b]. **generic** [BMS11, DK15b, KD18, XPBC11]. **Genetic** [JK13, TGKL19, AR18, AG15, EEAZ13, GWW+11, KSN17, KLB15, LHJ10, PS13, RCCVB11]. **GenProg** [MM19]. **geographic** [DBCdP11]. **geographically** [CdR+14]. **geolocation** [PWY+16]. **geometrical** [TLL13]. **gesture** [SHBC19]. **gesture-based** [SHBC19]. **gestures** [GCSÁddP11]. **GeX** [MMP15]. **GitHub** [BV18, JR15, TNK+19, TLA18]. **gives** [Jør16]. **GLBM** [ZADM10]. **global** [APCS10, BHH+10, BBS10, CL18, GGS+19, GBC16, Jør14, KK11, KR14, LH11a, LCLS16, SKRB19, ZGL+10, dOCS13]. **globally** [KM14, TR18]. **Goal** [LMR12, PZ15, CPYZ14, CHL+13, GPMI13, MTF14, PNJGF12, SCS15, ZWM+18]. **goal-based** [GPMI13]. **Goal-driven** [PZ15, CPYZ14]. **goal-oriented** [CHL+13, MTF14, PNJGF12, SCS15, ZWM+18]. **goals** [CFAP17, GBH+16, KGG18, MPS+12]. **GoF** [ACS13]. **Going** [DC17]. **good** [CHL+13]. **governance** [HBR19, VvSvV16, Wau19]. **GPU** [BAI+14, HCB+16, MBB11, PS14]. **GPU-SAM** [HCB+16]. **GQM** [GPMI13, KVGS11]. **GQM-based** [KVGS11]. **GQM-DSFMS** [GPMI13]. **gradient** [YCLY13]. **gradient-based** [YCLY13]. **grain** [FSGW11]. **grained** [PPB19, ZML17]. **gram** [SPSR17]. **grammar** [HWC+10]. **grammar-based** [HWC+10]. **grammars** [PACH15]. **grammatical** [RMCH+14]. **granules** [IBM11]. **Graph** [QGZ+15, WWLG13, ÁGBYB+14, BKLE18, CL17b, HWR17, LQLW12, MMP15, PXT+13, PRN17, RSCB18, YLYL17, CJ13]. **Graph-based** [WWLG13]. **graph-modeled** [MMP15]. **graphical** [CTL12, LK16, OFR+12]. **graphical-based** [CTL12]. **graphs** [AR12, BP13, BNS12, SK10]. **gray** [Che13, JBSL12, UUN13]. **gray-level** [Che13]. **greedy** [KHS11]. **Greek** [KKA+19]. **Green** [LZL+15]. **grid** [ALRP16, DHC+11, JLQ+10, LT11, SRS15, Sko14, WS12, YWEL+13, ZCZZ11, GQ12, KK11, PM10, SLLL12, XPBC11]. **grid-based** [LT11, WS12]. **grid-density** [ZCZZ11]. **grids** [CT11b, CLH+13, GLW13, HSC15, TdCAF16]. **Grindstone4Spam** [MRJD+12]. **ground** [KA17]. **Grounded** [GN15, WLD16, AKH12, JG14, JMML17, SSD16]. **groundwater** [LHP+09, LHP+10]. **Group** [GTF17, SZS13, BPSK18, IF19, LCC10, YSDT11, ZcKS17]. **group-based** [BPSK18]. **group-by** [LCC10]. **grouped** [SD16a]. **Grouping** [GTY12, GZY11]. **groupware** [BDG13, MGR+13, PLGT10]. **Growing** [HHKWB16, EZG15, KHMA12]. **growth** [KLB15, RSB+14]. **GSR** [RFM10]. **GTCharge** [LWL+16]. **guaranteed** [LWL+13, LGHR16, LLK11]. **guaranteeing** [FCC+10]. **guarantees** [AMP12, CGS19, LGZ+18]. **Guest** [BDV17, CCM12, SY16a, CdS18, OPS11]. **GUI** [BRB14, HCC10a, YCG+14]. **guide** [PPG+10, dSF12]. **guidelines** [CPDM16]. **guiding** [LK13]. **Guilt** [TKCR14]. **Guilt-based** [TKCR14].

H.264 [LCC+13, LLML13, LW13c]. **H.264/AVC** [LCC+13, LLML13, LW13c]. **hack** [SCwY12]. **Hadoop** [LZCL19, MK17, SGW+15]. **Hadoop-based** [LZCL19]. **Hamming** [CCLL11, ZGZ+13]. **handheld** [CTL12]. **Handling** [BBA10, CF12, FS14a, WQJZ10, CPYZ14, ECS15, IYS13, KFLS18, LNW+11, OBS+18, TKCR14]. **handoff** [PZB10]. **Handover** [AAH10, AAH12b, CL13, EZOK14, LRD+19].

handshake [WZ11]. **HaoLap** [SGW+15]. **happens** [GFWA18]. **happy** [GFWA18]. **hard** [LSE12, LWL+13, WMWZ12, wZfG14b]. **hardening** [AMKD13]. **hardware** [GKD13]. **hardware-based** [GKD13]. **harmonization** [PPG+13]. **harmony** [ZGL+10]. **hash** [PPB16]. **hash-based** [PPB16]. **Haskell** [LSNL+19]. **haystack** [dOFB+19]. **hazard** [KHC16]. **HB** [NJ17]. **HCI** [CdCAdO18, JST10]. **HDD** [CH10d]. **HDFS** [DZT+14, LLGZ13]. **healing** [TTC15]. **Health** [HWdS+15, LZHS11]. **healthcare** [PPN+15, VPL+10]. **heap** [HHH+10a]. **Heart** [VPL+10]. **help** [Aki18, ABL16, LK16, RNC14, RDPM19, vHAT13]. **heterogeneity** [CDGJ10]. **heterogeneous** [AR18, AYZI10, BLM10, CLY17, CTHW12, DBL+18, DK15a, DFJ19, GPL+15, JRO12, KHS11, MMZ+16, MK15b, NEM17, NTRN11, OZO+14, PK10a, TBC+16, WH15, Zha12a, ZLD13, ZCC+17, ZSB19, ZGSH13]. **Heuristic** [dNPM18, KS16, TVMS18, TPGdS13]. **Heuristic-based** [dNPM18, TPGdS13]. **heuristics** [DHC+11, FSGL12, WDC10]. **hidden** [LZL+18]. **hidden-code** [LZL+18]. **hiding** [AQK11, CNL13, FF12, HC10, HWL13b, HTH13, LCT10, LC10, LCLF13, LBCL10, Lin12b, LCC+13, LLML13, LTW16, OLZN13, PMDH13, PWC12, QZ12, UUN11, WCCL10, WLH13, WYCC13, WLC13b, WCC+14, YWTW11, YWHL11, YCLY13]. **Hierarchical** [ABB19, BLLGSMB11, GBC16, KKG+12, LH11b, NZM10, RG10, SS13, WWYZ11, WL15b]. **hierarchy** [CCD19, LZKW12]. **High** [AQK11, CS12, Lin12b, AdB13, AHLH16, AKA+15, BML+13, CS19, FF12, FTC16, HTH13, LCC+13, NJ17, PN14, PC15, RLY+13, RQD+17, SPMG18, Shi17, SS13, TBC+16, TC12, WLH13, WYCC13, WCC+14, WKH11, XZP+10, ZHH+17, ZCZZ11, ÇT13, NK14]. **high-bandwidth** [NJ17]. **high-level** [PN14, PC15, TC12]. **high-performance** [FTC16, RLY+13, Shi17, WYCC13, NK14]. **high-speed** [XZP+10]. **higher** [LHJ10, dPLV19, nQYD11]. **higher-order** [nQYD11]. **highly** [BNS12, CSS10, JLQ+10, PSS+16, PDBD18]. **highly-accurate** [BNS12]. **Hindering** [BTPLST15]. **HiP** [MBPM19]. **HiP-HOPS** [MBPM19]. **HIPAA** [HL11]. **Histogram** [WLC13b, CSS+13, HC10, HTH13, Lin14, LTW16]. **histogram-shifting** [HC10]. **Histogram-shifting-imitated** [WLC13b]. **Historical** [JRSN10, RSB+14, SYXL17]. **history** [HPH12, KM17, OKS+15, PDBD18]. **history-based** [HPH12]. **hitting** [TXCX19]. **Hoc** [ACSC16, ACL13, BCLW11, hChSyCwL10, CWK10, Cho13, KSHC14, LLHY19, MLHL12, MDO+10, WOC15]. **holes** [NNVD17]. **Holistic** [GGS+19]. **Home** [LDZL15, CFL+18, GGB19, KLP10, SJR+11]. **Home-diagnosis** [LDZL15]. **homeostasis** [GSP+19]. **homing** [HSM16]. **honeybee** [KHSD10]. **hop** [CW12, JXLC15]. **HOPS** [MBPM19]. **horizon** [HZG+12]. **hospital** [TKSRP11]. **hosting** [RQD+17]. **hosts** [Wen16]. **Hot** [WLZ+17a, WMOKY11]. **hot-spot** [WMOKY11]. **hour** [ABJ+17]. **hours** [Jør16]. **house** [BWP16, Ifi11]. **HPC** [CNM18]. **HPobSAM** [KJS+12]. **HSFal** [JJC+14]. **HSP** [HHH+10a]. **Huffman** [LHY12, YWHL11]. **Huffman-code** [YWHL11]. **Human** [Woh16, CFRPC+18, LWW+10, WSM15, YCG+14]. **human-perceived** [CFRPC+18]. **Hurst** [LCL15]. **HVMs** [CBZ+16]. **Hybrid** [KAM13, KR16, LWC+18, PN14, BDBLP15, BT17, CCdR+16, CNL13, CDOP15, DBCdP11, DAG19, EEAZ13, JS11, JJC+14, KHMF13, LMT16, LG17, LZCL19, LT11, LQW+12, MLHL12, QOLJG16, SBZ+17, SLW+15, YXH+18, YH10]. **hybridization**

[MMSD13]. **Hyper** [KS16, TZB19, WGZ+12]. **hyper-chaotic** [WGZ+12]. **Hyper-heuristic** [KS16]. **hypervisor** [PWY+16]. **hypervisor-based** [PWY+16].

i* [MNSA15]. **I-Cache** [CWK+13]. **I-star** [MTF14]. **I/O** [FTC16, SMZC12, SC19]. **IaaS** [DVV+16, DR12]. **IBM** [XPBC11]. **IBUPROFEN** [PCFRP19]. **ICSR** [WB19]. **ID** [HCC10b, IB11, Shi10, SV12]. **ID-based** [HCC10b, IB11, Shi10, SV12]. **IDE** [ÇT13, GMR17]. **IDE-based** [GMR17]. **ideal** [BMLL14]. **Identification** [FSGYP17, FTSC12, Sal17, TC10, TC11, CKS15, HZ15, KM14, PG12, RO13a, TLGE18, CPX16]. **identifier** [AACT13]. **identifiers** [CAHV15]. **identify** [HJ14, LLWL19, TTC15]. **Identifying** [BDO11, FBB+12, WLZ+17b, WRR14, CBVF19, LZJ+19, XCM+12]. **Identity** [HYWS11, RG10, SA16, WWYZ11, YYS+16, YKC+12, ZZ12]. **Identity-based** [HYWS11, RG10, SA16, YKC+12, ZZ12]. **IDF** [LCLP16]. **idle** [SRS15]. **IDTV** [BPB19]. **IEEE** [KT16, LH12, AAMS14, PZB10, WC11]. **IEEE/IFIP** [KT16, LH12]. **IFIP** [KT16, LH12]. **IFML** [BCF18]. **IKAROS** [FTC16]. **illustration** [AB10]. **Image** [BAAS13, Che13, KPS10, PWW10, CPL13, CT11a, CJ13, CW14, EA11, HRB12, HHH10b, KRDH12, KM11, KAS18, LXCM11, LW13a, NES+14, SNM14, jT12, TTL10, TLL13, UUN11, UUN13, WCCL10, yWpWyYpN13, WGZ+12, WKH11, WOLS12, WS13, XZZ+16, YC11, YCC16, ZLW+12, ZT14, ZL12b]. **images** [AQK11, AMK12, CCWT13, Che13, HSL14, HWL13b, HHC12, HTH13, KSRD10, LW13a, MM14, MKH+12, UUN13, WLH13, WCC+14, YWTW11]. **imbalanced** [LLC17]. **imitated** [WLC13b]. **Impact** [JAS19, Al 12, AHBA19, Ano13a, BHH+10, BBS10, CS15, CS16, CCP18, CREH+18, CFA+19, DNSH13, HGBS18, HFE10, HWLM11, IYS13, KA18, LRB+19, MS16, MT13, PB11, PSZ17, RvDV17, SLLL14, SLL+15, Wau19, dL13]. **impacted** [AMdLM17]. **Impacts** [WKbOS17, Li11, NBF16, SPC16]. **Impala** [MCL+17]. **imperative** [BSB12]. **Imperceptible** [Lin14]. **imperfect** [WWSZ15]. **implement** [FCRF16, HdM17]. **Implementation** [HN17, BBA10, BAI+14, CdSdSG+18, CNSG12, DS16a, HJP15, LLGZ13, MM14, NES+14, PSNB11, PPS12, SDB16, ZADA15]. **implementation-friendly** [PSNB11]. **implementations** [dB12]. **Implementing** [AAN11, CMK+11, FHL+18, JKC19, PN14, RAJ15, SA16, SV19]. **Implications** [LHCT19, APCS10, CFL+18, MVLJ18, Han12]. **implicit** [OWB11]. **implied** [dMCR19]. **importance** [LMPM18, OK18]. **Impossible** [TSLL11, LGLL12, SDM10]. **imprecise** [SK10]. **impressions** [BCG+14]. **improve** [BLLGSMB11, BGLG13, JDLS16, MTF14, SM17b, VPdP13, YWHL11, YM13, ZYZ+17]. **Improved** [BL19, LKP13, LGLL12, QZ14, ZL12a, BLUH15, DRCG12, GLW13, HWL13b, IZ18, KSN17, LCC+13, PS13, PWLL13, SDM10]. **Improvement** [CWK+13, AAGT16, BD16, CSW13, GMMGP15, GC13, GLJ13, KSAR18, LMR12, PW10, PPG+10, VLC+17, MMB10]. **improves** [vdBSvS+19]. **Improving** [CFAP17, CSW10, CJ13, FCB+16, GMS11, KAO13, KA14, LGC17, LZKW12, LZR16, OKS+15, PB15, PXT+13, SOS+18, SB12, TBSvdW18, XSL+18, DY15, EA19, HJBH10, KCT12, KM14, LMNA17, RSB+14, VSDD12]. **imputation** [HKS+17, TC16a, ZJZ11, Zha12b]. **in-depth** [KM17]. **In-house** [BWP16, Ifi11]. **in-vehicle** [BKLE18]. **inaccurate**

[CBVF19]. **incentive** [ZSB19]. **incentives** [LLW12, dVRB13]. **inception** [CBSM16]. **incidents** [ABL16]. **incomplete** [ZJZ11]. **inconsistencies** [EA14, EUR+13, FKWVH19]. **Incorporating** [CCdL+16, YLXZ16, FP18]. **Incorrect** [JDLS16]. **Increasing** [GKS18, PKS18]. **Incremental** [IYS13, CLY14, LCLP16, dNPM18]. **incrementally** [YF15]. **independent** [BEK+19, CF13, DDD14, FLRT19, ZGSH13]. **index** [JRSN10, Lin12a, SLLL12]. **indexes** [YWHL11]. **indexing** [TBC+16, ZXTT11, ZHH+17, FSS+13]. **indicators** [YC13]. **indirect** [AAM16, GMGTdFR14]. **indoor** [DC11]. **inducing** [BCD+18]. **induction** [BBBP13]. **Industrial** [BKW10, Woo12, AAGT16, APW14, ABJ+17, AHC+11, CCdL+16, GGT+19, HVK11, KBJZ15, KSM+16, LWSH19, MSSMDC12, PCFRP19, SCwY12, SCL13, SCC16, SM16, Sta14, SAN+17, VHFF+17, WGKW19, WB15, YLA+17, dSdMSNO+14, dOSdAdSG17, ELHC13]. **Industry** [Bis13, HBR19, CBT+14, EB14a, EbAT13, ETM10, GK18, HTB12, MSB18, MTA+16, MFTP18, SB14, TTR+13, WRR14]. **infeasible** [KSS15]. **inference** [RSB+16, TSRC18]. **infinite** [ASdMGM14]. **inflow** [RSB+16]. **influence** [ARH+17, BRS+18, CO12, EED16, HSM16, KS19, SJ17, SS15]. **influences** [Ifi11]. **influencing** [KFN19, KNA11]. **informal** [NBA+17]. **Information** [AAH10, CMM15, PCG+14, ABFM12, BPO+16, BDBLP15, CPL13, CSW10, CH10b, JAS19, KCV+19, KHW19, LS17a, LK16, LTW16, MCC11, MKH+12, PMDH13, PDS19, nQYD11, RNC14, ST13, SHGT16, SYXL17, VM12, WCCL10, WRS+17, WB15, YAY13, YAT11, ZLZ11, ZJZ11, ZYY+19, ZMK12, BDGP13]. **informations** [AAH12b]. **infrastructure** [AO16, CX10, CMM15, DBL+18, TG17, WC11]. **infrastructures** [GQ12, SGEK19]. **inheritance** [NCS10, RO13b]. **Inhibitors** [ESWA18]. **initial** [MAAC17]. **initiatives** [GMMGP15]. **injection** [PDK+16, RNC14, YXH+18]. **innate** [BDD+15]. **Innovation** [ESWA18, EbAT13, ZÁ15, LMWM18]. **innovative** [GGS+19]. **Input** [JC15, LXJL10, RHHT18, SRT+12, SED16, WLZ+17b]. **Input-based** [JC15]. **input-centric** [RHHT18]. **input/output** [SED16]. **InRob** [MFMCY12]. **insertion** [JRSN10]. **insider** [dMSSS+13]. **insight** [KTF15]. **insourcing** [SWA+13]. **inspection** [FAI13, SdSGdMSN+13]. **inspections** [CTKT13]. **inspired** [MDO+10, NEM17]. **installations** [CMK+11]. **instance** [LTK+15, TCK14, TC16a]. **instances** [YZC15, YZY+18, ZJZ11]. **instantiation** [VPdP13]. **institutions** [CLL14, KLA+19, WTG+11]. **instrument** [JC10]. **instrumented** [OM13]. **insulated** [RG10, WWYZ11]. **integer** [AMK12, CAG17, Lin16]. **integral** [DAR14, SNM14]. **integrate** [JRO12]. **integrated** [KSAR18, LJM11, TLWS10, TTMI19, XLW18]. **Integrating** [KAU16, KFN19, MPAA15, MMTS15, WK15, ZTCZ16, DK15a]. **Integration** [FSPH+16, VCMG17, AT15, BBS10, FCRF16, DDF+13, HMOK18, HLW+15, ICSK14, JST10, KM17, LLX+11, LLL+14, MSB18, NTRN11, RPK+13, SB14, SMB17, SJH+10, WBBK18, ZJZ+17, FCMJ12]. **integrator** [JLZ+19]. **integrators** [LMPM18]. **integrity** [ZTZ+11, ZHAY12]. **Intel** [DSGS17]. **intelligence** [PGP+19]. **Intelligent** [AMK12, BD16, GGB19, LPP+10, MKH+12]. **intensive** [AAA11, FOR19, GBH+16, MAH18, RAS14, RHL+17, SCL13, SMM17, Shi17, dSSVV11, YMM+17, YMM+19]. **intentional** [MBF12]. **intentions** [GA11].

inter [AHLH16, BML+13, CBZ+16, FKWVH19, MQG+17, SHBC19, WK15, WLC13a, ESM19a]. **inter-domain** [BML+13]. **inter-model** [FKWVH19]. **inter-organisational** [WK15]. **Inter-organizational** [ESM19a]. **inter-player** [MQG+17]. **inter-process** [AHLH16]. **inter-sequence** [WLC13a]. **inter-session** [SHBC19]. **inter-VM** [CBZ+16]. **interact** [HA10]. **interaction** [AZ11, GBDCR12, HSPD14, HLWS13, HCT+15, KWS+17, MOD+19, BCF18]. **Interactions** [MAR+19, SÁMI17, SKK+18b]. **Interactive** [FSGW11, AM10b, Hoo14, ILZ14, MFTP18, MGR+13, PGP+19, QXYL16]. **interconnection** [BMAH11, WMOKY11]. **interdiscipline** [FP19]. **interest** [TZ12]. **interesting** [ZZ16]. **Interface** [GC13, AYZI10, MCV15, TKZW17]. **interfaces** [Aki18, AK15]. **interference** [AdAD17]. **interleaving** [BP15]. **interlinked** [MK15b]. **intermediate** [LSE12]. **Internal** [ESWA18, GAKF13]. **International** [SS17]. **Internet** [CG15, CRL+12, FGBC10, JSM10, MOD+19, Pal12, PC15, RLL+18, SST16, Shi12, SXYW14, WTG+15, ZXG10]. **Internet-scale** [JSM10, SXYW14]. **internetworking** [VT14]. **Interoperability** [RCL14, MFMCY12, NSDI16, GMGTdFR14]. **Interoperable** [MIBV14]. **interpersonal** [WKbOS17]. **Interplay** [AJLS10, AC17]. **Interpretation** [JK12, ADET12, OMLB16]. **interpreted** [AMCC14]. **interruptions** [FGBC10]. **interval** [LNY+11, LYC14]. **intervention** [APT+12, VvSvV16]. **interventions** [SSMvD16]. **interview** [AHC+11]. **intra** [LCC+13]. **introduced** [HHKWB16]. **Introducing** [Ano19l, Ski13, WBBK18, YMM+17, YMM+19, TC10]. **Introduction** [BCG+13, DIB14, FKA16, FOR19, GBG10, ML18, NBM19, OPS11, PBM19, SS17, WMAS12, WMC17, XST18, ZTPT18, dAK18, BDV17, CCM12, CdS18, NBF+19, PS16]. **Intrusion** [SKE10, YKC+12, LG17]. **Intrusion-resilient** [YKC+12]. **invalid** [SLLY17]. **invariance** [KAS18, yWpNyL11]. **invariant** [LXCM11]. **invariants** [CCGdL10, TLL13, WL16]. **inversion** [SYT+17]. **inverted** [Luk11]. **Invertible** [UUN13]. **investigate** [ASGJ13]. **Investigating** [HNH15, JWA14, KOS15, MBF12, SPMG18]. **investigation** [AKKS11, ARH+17, ABJ10, BDD+15, CFL+18, CH10c, GTA14, GTF17, KKA+19, LMH10, LZO+16, MNS13, ZADA15]. **investigations** [LRB+19]. **investment** [vdBSvS+19]. **involvement** [CFMRL11]. **involving** [JSM10]. **iOS** [LZHS11]. **IoT** [CDS19, DS16a, GGB19, WNC17]. **IP** [BP15, OSH+18]. **IP-based** [OSH+18]. **IPAC** [KVH12]. **IPv6** [AAH12b, AAH10, CL13]. **IR** [BLUH15]. **IR-based** [BLUH15]. **IRC** [HB13]. **IRC-based** [HB13]. **ISBSG** [dGFDL16]. **ISO** [DRCG12]. **ISO-FLANN** [DRCG12]. **ISODAC** [TBC+16]. **Issue** [BCEF10, CCCY17, OPS11, SS17, WCTK12, AC19, ADMOK+10, BEZ14, Bor12, BCG+13, CCM12, CdS18, CLR18, CA14, CL11, DIB14, Dut15, FKA16, FOR19, GBG10, JWT17, LH12, ML18, MJ19, MACB19, MS17a, NBM19, PBM19, PS16, RCPZ19, TZB19, TB13, VZT17, WB19, WMAS12, WMC17, WC16, XST18, YAT11, ZTPT18, dAK18, GP10a, Won10]. **issue-based** [TB13]. **issue-commit** [RCPZ19]. **Issues** [FGD+17, ALRP16, CDS10, EGHO16, JR15]. **iStar** [GCAH18]. **IT-outsourcing** [DPVvV19]. **Italian** [ETM10, TTR+13]. **item** [CLL10]. **items** [ACL13]. **itemset** [DS12, NDS13]. **itemsets** [ZJL10, CCGG14]. **Iterated** [LM15, KHS11]. **iterative** [PXT+13]. **iteratively** [Zha12b]. **iTravel**

[YH13].

J [AAH12b, APS+10, BKSM14, LKJR10a, LHP+10, WZM12a, XTZX13, YWEL+13, wZfG14a]. **Jaccard** [LQC+14]. **Jacobian** [BAAS13]. **JaguarCode** [YLC18]. **Java** [WLL19a, ASdMGM14, AYZI10, ABFM12, BD17, FGB+19, ECS15, ES14, EED16, HdM17, HWLM11, LRO19, MLGA11, NCS10, PTF+15, QLBS17, SS14b, WLL19b, ZYY+19]. **JavaScript** [HHKWB16]. **JCSI** [ABFM12]. **JMove** [TVMS18]. **Job** [GQ12, PRS11]. **jobs** [AR18, LZY+15]. **join** [OH15]. **Journal** [Ano19l, HST16, TTT14, WLL19a, Woh16, YMM+19, vV13]. **JPEG** [HWL13b, QZ12, QZ14, WLH13]. **JSS** [BCG+13, GP10a, MJ19, Won10, WC16]. **judgment** [JH10, Jør10]. **judgment-based** [JH10, Jør10]. **junior** [vHAT13]. **just** [PPB19]. **just-in-time** [PPB19].

Kalman [AG15]. **Kanban** [ADCO18]. **KAOS** [MNSA15]. **Kernel** [CYT16, Fei12, IF10, LWBH16, OY16, SCwY12]. **Key** [ROR11, HL11, IB11, LH11b, LW13a, RG10, RPSL10, SLZ12, Shi17, TLL12, WWYZ11, WZM12a, WZM12b, YC12, YLZ+16, ZG10, OHJ10]. **key-insulated** [RG10, WWYZ11]. **key-value** [Shi17]. **keyrings** [MBB11]. **keystroke** [CTL12, Kan15]. **Keyword** [TZ12, BL11, GZS+18, LWXZ10, WHY+12]. **kill** [LGC17]. **Kintala** [TG10]. **kit** [FCRF16]. **Kmeans** [LQC+14]. **Knowledge** [HHK13, AAH12a, BSG+18, CJT+16, CHL11, FB18, FH10, GK18, GLJ13, Ifi11, JS11, Kel15, KK17b, LJA+11, LLL+17b, NTdSX13, SdSLS+19, SKE10, SBDB19, TAJ+10, TNK+19, TBG13, WBBK18, YCG+14, ZMK12]. **knowledge-based** [SKE10, TBG13]. **Korean** [Kan15]. **Kuali** [LWZ12].

label [CTHW12]. **labeling** [KA17]. **labelling** [XYZ+19]. **landscape** [KS19]. **Landscaping** [KSIZ19]. **Language** [ASMM18, BCF18, ARS17, BKS15, BWH10, BEK+19, CAHV15, CF13, CG12, DPP+18, EMBS17, HHKWB16, HGMB13, KMWL12, KMK16, LPXL10, LOFA17, MAGC+17, Mer13, MGR+13, NBR+13, PC10, SA14, SPSR17, SAH12, KVH12]. **Language-agnostic** [ASMM18]. **language-independent** [CF13]. **languages** [ACG+15, AMKD13, BBA10, BSB12, QOLJG16, RO13b, SKL10, SHS16, TFS10, VPdP13]. **Large** [ESWA18, FNWL18, TPTV17, AHLH16, APS16, AAA11, BLL+18, BV16, ÇB16, CSM15, DvdVA+13, DPL16, EEAZ13, EH19, GTF17, KLL+11, KKR16, LCL+12, Lin12a, LTK+15, LWOY16, LLL+14, nPHW+16, PFG13, PTF+15, RSB+16, RVCM17, SAH12, Shi17, SVM19, SM16, SGO13, SYT+17, SAN+17, TTL+13, TTMI19, WK15, WFF18, WB15, XWZC14, YMM+17, YMM+19, ZK13]. **large-scale** [APS16, BLL+18, CSM15, DvdVA+13, DPL16, EH19, KLL+11, LLL+14, nPHW+16, PFG13, PTF+15, SAH12, Shi17, SAN+17, TTMI19, WFF18, WB15, ZK13]. **Lascad** [ASMM18]. **late** [MRS18]. **Latency** [SB19, BCA+19, KY10, LJC16, MJ18]. **Latency-aware** [SB19]. **lattices** [CHN19a]. **Laws** [dOSdAdSG17]. **laxity** [LESL11]. **Layer** [AAH10, KCAS13, AAH12b, CTL10, CTHW12, KSHC14, LLLK12, PZB10, PGRQVV12, SRWE10, ZYZL12, LZG15]. **layer-3** [PGRQVV12]. **layered** [BPO+16, MGB16, NTRN11, LLW12]. **layers** [ST11]. **layout** [DS12]. **LBS** [JRSN10]. **LCBM** [PQBP16]. **LDFR** [XLX+19]. **LDoS** [jWLY+13]. **lead** [JAS19]. **lead-time** [JAS19]. **leader** [LMS11]. **leading** [DLW+13]. **Leagile** [WCC12]. **leak** [CCN+10, SS14b]. **leakage** [WWL+10, YLZ+16]. **leakage-aware** [WWL+10]. **LEAM** [PW10]. **Lean** [ESWA18, NBF16, PFG13, WCC12, PW10].

learned [RB16, SKK+18a, VM12]. **Learning** [LTK+15, LMS12, XLX+19, AIE19, AAN11, BNS12, CX10, EB14c, FMPS16, GJ13, JRO12, KCT12, KHMF13, LG17, LLC17, MDP+11, NI13, PCCK18, RCPZ19, SRSC16, SZW+16, SGEK19, VTZ+17, VLL18, WQJZ10, WCX15, Xia13, XHM+11, YXH+18, ZFS15]. **learning-based** [EB14c]. **least** [HBM19, MT10]. **least-privilege** [HBM19]. **least-time** [MT10]. **leave** [GA11, KM13]. **leave-one-out** [KM13]. **lecture** [ZXG10]. **led** [MPLL+15]. **legacy** [CRESF+13, KTK19, SV19, YM13]. **Lego** [SBAH17]. **legs** [SCMS15]. **Lehman** [dOSdAdSG17]. **length** [GGC16, LWC13, XTZX12, XTZX13]. **less** [CLY14]. **LESSON** [ZXG10]. **lessons** [RB16, SKK+18a, VM12]. **Let** [BDDS11]. **leukocyte** [HHC12]. **Level** [SRS15, WL15a, ÁRMC16, BLS18, CS16, Che13, FSG+11, GE15a, GBC16, HM16, HFE10, IYS13, LCLS16, MT10, OKMD12, PN14, PC15, PPMM14, PK10b, PBD+12, Sal17, ST13, TC12, UUN13, WLZ+17b, WL10, YC13, ZJZ+17, ZCC+19, ÇT13]. **levels** [AL10]. **Leveraging** [AVGM19, HCB+16, dOFB+19]. **libraries** [LRB+19, SOS+18]. **LibreOffice** [GL14]. **license** [KTF15, KKT17, LGC17]. **licenses** [SA12]. **life** [Fei12, SS15, WB12]. **lifecycle** [SRBT18, TTMI19]. **Lifetime** [YZG+13]. **Lightweight** [SCwY12, TMTB19, KT12, PSdO+13, PQBP16, RQD+17, ZADA15]. **like** [ZLZ11]. **likelihood** [RBW18]. **likelihood-free** [RBW18]. **likely** [TSRC18]. **limitations** [HLWS13, MMTS15, SBAH17]. **Limiting** [CPYZ14]. **line** [AC19, BWW+18, BBD18, CHN19b, CV16b, DGRN10, DWC17, FHY17, HGBS18, HPF16, JKL19, KCV+19, LMN10, LNTS19, MCV16, MB10, PBD+12, SSS17, UIK17, dSdMSNO+14, CBT+14]. **linear** [ACH19, CAG17, MPAA15, NHC13]. **lines** [AWSE19, BKS15, BdMSNO+17, BBS10, CdSdSG+18, CNKL12, ESM+19b, FFV19, GWW+11, HBOS13, KTF+16, LGS+19, MAGC+17, MD16, NBA+15, OGRJ+18, PLHP+15, RTM19, ROR11, SBT19, SdSGdMSN+13, TBG13, WVT+14, WAG15, WGS+14, dOSdAdSG17]. **Link** [AAH10, AAH12b, DRCG12, KR16, PSM12, RNC14, SCGL+18, SZS13]. **Link-Layer** [AAH10]. **linkage** [dNPM18]. **Links** [HRRC16, KBDGAW16, RCPZ19]. **Linux** [ABB19, Fei12, IF10, SMZC12]. **Linux-based** [ABB19]. **list** [SBZ+17]. **lists** [LMIV15]. **Literature** [GCAH18, SKT17, AAGT16, AKAA18, AVGM19, APW14, AT15, AS16, BWP16, BKS15, BMB18, CFL+18, CP15, CS19, DVPY+19, DPL16, DBCG14, GJ16, GNA17, GA11, IHA16, JED18, KGB11, KNA11, LFW15, LL15, MH13, Man16, MRT17, MRY17, MGAN18, MMB10, OGRJ+18, PG12, PMB15, PFO+19, RAK15, STA19, TKP+18, TCS18, VLC+17, VCMG17, ZADA15]. **little** [RNC14]. **live** [FGLI15]. **lives** [TLK+16a]. **Living** [RASL12, CFAP17, GMPN16, BHH+12]. **LLVM** [RSCB18]. **Load** [MCC11, SLW+15, BVV+10, CV16a, CCH14, CS12, DY15, FS19, LJL+12, NNVD17, WOC15, YCF+13]. **load-balancing** [DY15]. **Load-prediction** [SLW+15]. **local** [CL18, FF12, HC10, JC15, KAU16, LM15, LWW+10, ZLmLN14]. **localisation** [aSRZ+18, XYZ+19]. **locality** [KC16]. **localization** [DC11, DW14, FP18, GXZ+19, GLOM19, JJC+14, LLWL19, MLD+14, PAR14, TXCX19, WL15b, WL16, WDC10, YLYL17, ZJC+10, ZCT+11, ZS16, ZYZ+17, ZZC18]. **localize** [dSACdLF17]. **Localizing** [ZWF+18]. **located** [SHHL12]. **location** [AACT13, AL10, BLUH15, CFAP17, IBM11, NCS10, PXT+13, WCC13, XSL+18, dL13]. **location-dependent** [IBM11]. **lock** [PMWC12]. **Log** [XPBC11, BLL+18,

FSS+13, MK17, NHC13, WWSZ15]. **log-linear** [NHC13]. **log-logistic** [WWSZ15]. **logic** [BMLL14, EBEL18, KAO13, KB16]. **logic-based** [BMLL14, KAO13]. **Logical** [MCL+17, AC17, HJ14]. **logistic** [WWSZ15]. **logistics** [Hoo14, TTL+13]. **logs** [LGH+17]. **lonesome** [HFLvV11]. **long** [CFAP17, SB17b, UD10]. **long-living** [CFAP17]. **long-term** [UD10]. **longevity** [NCWK18]. **longitudinal** [Han12, Man16, vHJPB+17]. **look** [Dan17]. **Loop** [TXLC12, NK15, PCYZ12, WWL+10]. **LoopFix** [WMW+19]. **loops** [WMW+19]. **Loosely** [EZG15, CDOP15]. **loosely-coupled** [CDOP15]. **losing** [SLZ12]. **loss** [BMB19, ZYZL12]. **losses** [BP15]. **LossEstimate** [PD12]. **Lossless** [QZ12, GJ13, HWL13b, TTL10, WCCL10, WLH13]. **Low** [PMDH13, BCA+19, LKP13]. **low-end** [LKP13]. **low-latency** [BCA+19]. **lower** [Jør16, ST11]. **LSB** [YWWS10]. **LTE** [EZOK14]. **LTL** [PW18, SGK12]. **LZW** [WYCC13].

m [CDA11]. **m-banking** [CDA11]. **M2M** [SDB16]. **MAC** [Bar15, PZB10, WC11]. **machine** [AO16, BNS12, EFSJM17, GJ13, KCT12, KCV11, MCV15, PCCK18, SZW+16, TTL10, VTZ+17, XHM+11, XZZ+16, ZFS15, ZWC+19, Zha16]. **machines** [ABB19, BML+13, FGLI15, LQW+12, PWW10, SK13, WXZ+17, FSS+13, KMWL12, YHM+14]. **macro** [GAT15]. **Mahtab** [MN19]. **mail** [MRJD+12]. **main** [SLLL12]. **main-memory** [SLLL12]. **mainstream** [AMKD13]. **maintainability** [AAM16, CL15, CREH+18, KR16, SAN+17, YC13, dAGSdFS+15]. **maintainable** [FCRF16]. **maintainers** [dL13]. **Maintaining** [CSS10, GAT15]. **maintenance** [ACG+15, CW12, DFCPSF15, JLQ+10, KBHG17, MG12, OBS+18, PGRQVV12, SL10]. **maintenance-centric** [OBS+18]. **maintenance-free** [DFCPSF15]. **major** [PWS+15]. **make** [JLZ+19]. **makespan** [ZCC+17]. **Making** [OFR+12, BWP16, BWW+18, DCP12, ETYL15, GLZ15, OWG19, RPT19, SWA+13, vVT16, AKAA18]. **malicious** [Ala15]. **malleability** [SC19]. **Malware** [CRL+12, LZL+18]. **man** [MCV15]. **manage** [AKH12, AMCC14, FSGYP17, KTF+16, YHMS16]. **Management** [TKSRP11, ADTZ12, ASMN15, ADET12, BCS18, CJT+16, CS19, CLY17, CBC+15, CS12, CDPM17, DS16a, DIB14, EB14a, EH19, EGG+11, EBJ17, FOR19, GGS+19, GGB19, GSdS16, HNS12, HM16, HCL+10, HL11, JG14, KLP10, KGG18, KH10, LJL+12, LAL15, LH11b, MPTT14, MGB16, MBT16, NKMM12, PCHW12, PPMM12, PvV12, SBGT13, Sta10, TAJ+10, THWC10, TC12, TTMI19, Uzz13, WDC12, YAY13, ZDC+11, ZFY+19, ZMK12]. **managers** [MNS13, RMCH+14]. **Managing** [BMB18, CHCO11, FKWVH19, MSL12, NCK+15, PCHW12, aSRS+10, VAJ18]. **MANET** [LJC16]. **manifestation** [CPRT16]. **manifold** [LYLC16]. **manipulate** [LLWL19]. **manipulating** [MCTM11, MCTM11]. **manipulation** [OHL17]. **manual** [TAS+18]. **Manufacturing** [NCK+15, AHW10, FVHF+15, TTL+13]. **many** [GZY11, PN14, RRV19, ZZ16]. **many-core** [PN14]. **many-objective** [RRV19]. **Map** [KPT13, CJ13, ÖT18, ZT14]. **Map-matched** [KPT13]. **Mapping** [KBM18, ASGJ13, AJG+15, AB16, ADCO18, AM18, APS16, ACS13, AAC+17, AS16, BCFP19, BBND+18, BLTY18, BDM+19, CS19, CNMR18, DLM19, ESM+19b, FSGYP17, GMMGP15, GRR16, dGFDL16, HBP+17, JCYT16, KBJZ15, KSIZ19, Kit10, KQ17, LAL15, dPLV19, MM14, MRY17, MAEL19, MD16, NVPGMPSM17, PXT+13,

PMB15, RHL+17, TAF+17, WNC17, WRdMSN+13, YLA16b, ZSG16, ZGYS+15]. **mapreduce** [KC16, BGTC18, TLK16b]. **maps** [BAAS13, DEA+14, KOS15, LWC13, OD17]. **MARBLE** [PCCLdGP12]. **March** [WZM12a]. **margin** [KBM18]. **market** [TY18]. **marketplace** [Jør14, KBRV18]. **Markov** [WFY+19, AMAY19, LCL15, WCC13]. **MAS** [GCC+15, dVRB13]. **MAS-ML** [GCC+15]. **mashup** [LLX+11]. **Masquerade** [RZMPM12, XTZX12, XTZX13]. **massive** [LWZ+16]. **massively** [Dan17]. **matched** [KPT13]. **matching** [BKLE18, CJL11, KOL+14, MPN+17, WWLG13, YJZ17]. **materialized** [GLWY10]. **mating** [KHSD10]. **matrices** [NBA+17]. **matrix** [TK14]. **Matthew** [YAY13]. **maturing** [FMRM15]. **maturity** [BRS+18, CS19, FFdRG+14, GTF15, GTF17, KKA+19, NBF+19]. **Maude** [ABS19]. **Maven** [RvDV17]. **maximization** [YXP+18]. **maximize** [PAR14]. **maximizing** [KHSD10]. **maximum** [LGS+19, WFY+19]. **may** [AS10, EED16]. **maze** [LLC10]. **MCPs** [CD10]. **McTorrent** [HSS10]. **MD4** [ZL12a]. **MDD** [PFF12]. **MDE** [DV10, GDFFPG+10, HZH+16, HBOS13]. **me** [BDDS11]. **mean** [TTL10]. **Means** [LKJR10a, LKJR10b, CCGG14, FSGYP17, KRDH12, KHW19, KM14]. **Means-ends** [LKJR10a, LKJR10b]. **Measure** [DDD14, BLLGSMB11, CCMOM19, GD12, WL10]. **Measure-independent** [DDD14]. **Measurement** [PW10, Al 12, DAG19, EAH+11, EbAT13, GPMI13, GTF15, KMK16, LAT10, QGZ+15, SM16]. **measurement-modeling** [DAG19]. **measures** [BDO11, BAM17, CdCAdO18, FMdAR16, KOL+14, MSGGL12]. **Measuring** [BPSK18, DNSH13, HJBH10, HWHT11, JST10, LS17a, PDS19, WLL15, ZLT10, DPVvV19, nPHW+16, PEO11, TPGdS13]. **mechanism** [BDBLP15, CL13, KKG+12, KBRV18, LQLC16, LZG15, SM17a, TY18, WCX15, YL16, YGN+16, ZDC+11, ZSB19]. **mechanisms** [CYT16, KBRV17, SdSLS+19, SC19]. **median** [LCLF13]. **mediating** [JC10, KP10]. **Mediation** [BDBLP15]. **Medical** [UUN11, AQK11, AMK12, FM11, HTH13, KSRD10, KRDH12, LDZL15]. **medium** [VA17, dSdMSNO+14]. **medium-sized** [dSdMSNO+14]. **meet** [TSL+11]. **meet-in-the-middle** [TSL+11]. **meeting** [SSD16]. **Meetings** [BJK+11, SKK+18b]. **members** [JLY14]. **Memetic** [FAM15]. **Memoriam** [TG10]. **Memory** [CCN+10, SS14b, ÁRMC16, BPQP+10, KKLB11, PS13, RMCH+14, RSCB18, Shi17, SLLL12, WLZ+17b]. **memory-corruption** [WLZ+17b]. **memory-efficient** [Shi17]. **merge** [HCB+16]. **mergence** [ZHH+17]. **merging** [DEW+16, MKL+15]. **mesh** [BMAH11, LZ13, LL14, WMD+10, YCLC17, ZADM10]. **MeshFS** [YCLC17]. **MeSRAM** [SM16]. **message** [AN16, BKRW19, CL18, EEAZ13, JEEL16, SV12]. **message-driven** [BKRW19]. **message-passing** [CL18]. **messages** [BHVR18, KPS10]. **messaging** [RA16]. **Meta** [rBHM17, BCR+19, CdL18, GGT+19, KBHG17, AM13]. **meta-analysis** [GGT+19]. **meta-model** [BCR+19]. **meta-modelling** [CdL18]. **meta-object** [CdL18]. **Meta-Protocol** [AM13]. **Meta-synthesis** [rBHM17]. **metadata** [BPQP+10, GAKF13, VRPT18]. **metadata-based** [GAKF13]. **metaheuristic** [HBT16]. **Metamodel** [MGR+13, KOL+14, KTF+16, SdSLS+19, WKD+19, ZMK12]. **metamodel-based** [KTF+16]. **Metamodel-driven** [MGR+13]. **metamodels** [DRELHE16, HS11a].

metamorphic [JCK+17, TSRC18, XHM+11, CPX16]. **metaphorical** [MMB10]. **metaprogramming** [LRO19]. **metasearching** [AKB11]. **Method** [CS16, CCGdL16, AKAA18, ATvHJ18, AKL14, dSACdLF17, AS17, AB10, BKSM13, BKSM14, Che13, CSS+13, EB14c, FAI13, HJ12, HC10, HHC12, HTH13, KKLC12, LLC10, LT13, LWSH19, LGH+17, LWBH16, MRBN17, PMDH13, PWW10, PW10, PWC12, RFM10, RSB+16, RBW18, SI12, SCwY12, SKE10, SPLW17, SSP17, SGC+17, SHS16, SBB+16, SZW+16, SM16, Sta14, SNDD19, TVMS18, TB13, TTC18, TC11, WCCL10, WCB+17, XSL+18, YXH+18, YTW+13, YZC15, ZK13, ZLZ11, ZYY+19]. **method-based** [AKAA18]. **Method-level** [CS16]. **Methodological** [BHM12, WV11]. **methodologies** [ABC+13, DDMP14, DNBM12, ISM11, SDG17, TLK16b]. **methodology** [DAR14, HGP+12, PN14, RMCH+14, WSJ14, ZÁ15]. **Methods** [ACW10, Al 12, ABJ10, ANM15, CP15, CBAV16, DC11, HCC10a, KSENM17, KCV+19, KSM+16, MRT17, PG12, TC11, TPKT12, Wie14, ZADA15, ZXTT11]. **metric** [CRC19, KCAS13, MK15a, dAGSdFS+15, TDW+14, CPX16]. **Metrics** [PSZ17, ASGJ13, AAM16, AAC+17, CPR13, DMSG11, FBB+12, GPMI13, Kit10, MJF10, NVPGMPSM17, PDS19, PFO+19, dAGSdFS+15, ZXL10, LGM+18]. **MFCVQ** [YWHL11]. **MFCVQ-based** [YWHL11]. **micro** [FMR11, LVVTP17]. **micro-optimize** [LVVTP17]. **micro-structures** [FMR11]. **microaggregation** [LM13, LM15]. **microcontrollers** [LKP13]. **microgrids** [AMCC14]. **microservices** [AIE19, DLM19, LZJ+19]. **middle** [TSL+11]. **middleware** [AGBD14, BMLL14, CCN+10, CDRT13, DKP+19, DIB14, HBG+13, HWLM11, KSHC14, LC11, MKS10, MDP+11, RLY+13, RMD11, TLK+16a, FS14b, KLL+11, VSDD12]. **migratable** [GMMC13]. **migrating** [FGB+19]. **migration** [FGLI15, GDLB16, KKA+19, RRM17, YTW+13, rBHM17]. **MIH** [OZO+14]. **MIH-based** [OZO+14]. **mind** [OD17]. **mindfulness** [BDPRC18]. **Miner** [LWBH16]. **mines** [BRG+12]. **minimal** [CCY11]. **minimisation** [YH10]. **minimization** [CTL10, FHY17, LGHR16, MB17, WAG15, ZAY19, ZCC+17]. **minimized** [PWY+16]. **Minimizing** [BGLG13]. **Minimum** [LGS+19, WL17, BCLW11, CHL11, HWL13a]. **Minimum-cost** [WL17]. **Minimum/maximum** [LGS+19]. **Mining** [CHN19b, LJL+12, LLL+17b, MKHLB16, Wu11, ZM18, DS12, GNA17, HSC15, HWL13a, KSAR18, Lin16, LZ12, LW13b, LWBH16, MG11, MdFD+15, NJ17, NDS13, PCCLdGP12, PWA+19, RDPM19, SOS+18, SAH12, SJC13, SLLY17, SYXL17, TLK16b, TPTV17, WLC13a, YF15, ZMB14, ZJL10]. **mismatch** [MARD16]. **miss** [BKSM13, BKSM14]. **missed** [SPMG18]. **Missing** [IAA16, ZJZ11, SCGL+18, TC16a]. **mission** [CCN+10]. **mission-critical** [CCN+10]. **mistakes** [SCMS15]. **misuse** [EA12, EA14, KOS15]. **misuses** [WLZ+17b]. **Mitigating** [SMZC12, LMT16]. **mitigation** [WAWO12]. **mixed** [CSMC19, CAG17, LWSH19, LGHR16, MMTS15, NI13, PGPC17, TB13, XB19a]. **mixed-criticality** [LGHR16, PGPC17]. **mixed-method** [LWSH19, TB13]. **Mixing** [GDFFPG+10]. **ML** [GCC+15]. **MMPP** [LJM11]. **MMU** [CLY14]. **MMU-less** [CLY14]. **Mobiiscape** [KLL+11]. **Mobile** [ASV+16, AAH10, CBS16, CL13, GBCI11, LLHY19, PMMM11, AR12, AN16, ARS10, AAH12b, AAN11, AAM+17, AGBD14, BGS+16, BCF18, BGG10, BJK+11, BND14, BSDD14, BDM+19, CDA11, CdCAdO18, CTL12, CMK+11, CWK10, CRKH11, Chr16,

CGPT14, DKP+19, DIB14, FRGC10, GRBNA10, GNA17, GFP11, IB11, JED18, KAU16, KSHC14, LL14, LZHS11, LKK14, MDP+11, MT13, NOPF12, PLVB+18, PPN+15, PLHP+15, RHHT18, SM17a, SRWE10, SHN14, SKE10, SHBC19, TG17, TKH+11, UIK17, VSS+11, VSDD12, VPL+10, WCB+17, YSDT11, YH13, YL16, YGN+16, ZSG16, ZSB19, FS14b]. **mobile-cloud** [DKP+19]. **mobile-health** [LZHS11]. **mobiles** [GCSÁddP11]. **Mobility** [BCEF10, AN10, BD10, KLL+11, LH11a, MEB+10, ME10, WB10]. **mobility-enabled** [AN10]. **Model** [AHH+10, DPP+18, EBEL18, HVK11, MAR+19, MKL+15, MBPM19, OB13, PMR16, PBD+12, SDB16, WKD+19, AdB13, Aki18, AK16, AdAD17, AF16, AAB19, BRB14, BSK+18, BV15, BCR+19, BGTC18, BCF18, BDDS11, BMB18, BRS+18, BPB19, BL11, CCGdL10, FGB+19, CFAP17, CV14, CHLW17, CD10, CH10b, CCGdL16, CHCO11, DEW+16, DK15b, DGWC16, DCT17, DM17b, EVR11, EUR+13, FDÁM12, FGMM17, FVHF+15, Fei12, FKWVH19, FAI13, GSM19, GMPN16, GMR17, GKS18, GD12, GRT13, GTF15, DDF+13, GEM15, HP16, HA10, HZH+16, HLWS13, JBSL12, JPGdL17, KP10, KBHG17, KLL17, KD18, KB16, KSS15, LJC16, LKR13, LKRYTS18, LS17b, LPM15, LJA+11, LXC13, LLL+14, LPB19, MJ14, MGB16, MAG12, MLD16, MPRS14, MV11, NHC13, NPC12, NB13, PB15, PCHW12, PRS11, PCFRP19, PHR10, PGRQVV12, RAK15]. **model** [RHHT18, RKK16, RRM17, SAMN12, SÁMI17, SFMB16, ST13, SDG17, SXYW14, SSP17, SS14a, SZW+16, SGEK19, SLLY17, SXYM11, SS13, TS19, TKJL13, TAF+17, TTR+13, TGP11, TSRC18, UIK17, Uzz13, VM12, WKZL10, WDC12, WWSZ15, WTG+15, Wau19, WZM12a, WZM12b, WBS+10, WGS+14, WWSS13, WCC13, XTZX12, XTZX13, XB19a, YFZ+16, YC12, YCF+13, YHM+14, YF15, ZML10, ZM18, dCPV10, nQYD11, RSCB18, WFY+19]. **Model-based** [DPP+18, OB13, SDB16, AAB19, BRB14, CFAP17, EUR+13, FVHF+15, FKWVH19, GKS18, KSS15, LLL+14]. **Model-Driven** [PMR16, HVK11, PBD+12, AdB13, Aki18, FGB+19, FDÁM12, FAI13, GMPN16, DDF+13, GEM15, HP16, JPGdL17, MGB16, PGRQVV12, RRM17, SAMN12, TAF+17, TGP11, UIK17, VM12, Wau19, WWSS13]. **model-free** [WDC12]. **model-to-model** [CCGdL10]. **modeled** [MMP15]. **Modeling** [AAMS14, ABB15, BPGS13, BCF18, CCD19, PG15, SB14, aSRS+10, TAF+17, VPdP13, YLXZ16, AHW10, AGC13, APS+10, BM18, BKH10, BDPRC18, BT17, DMA18, DGRN10, DAG19, EZRK16, FBB15, FCB+16, HGMB13, JC10, KJS+12, KKL+11, LGH+17, MB19, MV10, MGR+13, MNSA15, MNSA16, PPMM17, PAS+10, RTM19, SA14, SÁM+16, SKL10, SJ17, dSSVV11, SK13, SWES16, TB13, TGP11, VRPT18, WSJ14, YAKK16, ZMK12, BBA10]. **Modelling** [CHN19a, WB15, WMOKY11, AD14, BRS10, CHN19b, Cic16, CdL18, ETYL15, GCC+15, KMK16, MPS+12, MPLL+15, PC10, SB17a, SS15, TTR+13, VKL16]. **Models** [PS16, APM+14, ASV+16, AHBA19, AMCC14, ADET12, AKA+15, AF16, AGR19, ABJ10, AMGG14, AK15, BAM17, BGLG13, BWH10, BSG+18, CdAM+14, CCG+18, CHN19a, CLS+12, CPD+18, CRK+18, CFM+16, DCG16, DRELHE16, DZT+14, EA12, EA14, EGG+11, FDÁM12, GVPPM18, GGvH+18, GTA14, HGBS18, HJBH10, HBT16, JED18, JK12, Kim12, KLB15, KM13, KTF+16, LWB+13, LHP+09, LHP+10, LHLG+15, MWM12, MSGGL12, MA10, MPAA15, NTT19, NHH+12, NBF+19, PMR16, PN14, PPG+13, PFF12, RSB+14, SPSR17, SNDD19, SGO13, TTL+13, TKCR14, TGE17, WMW12,

YAKK16, ZYA+18, LJH10]. **Modern** [YCA17, VAM+10]. **modernization** [CRESF+13]. **modernizations** [SdSLS+19]. **modifiability** [CFRPC+18, LJH10]. **modification** [LCLF13]. **modified** [EEAZ13]. **Modular** [BRS10, DBL+18, SNDD19]. **Modularity** [VHFF+17, dB12]. **modularization** [NMM13]. **module** [EB14c, KS16]. **modules** [MTF14, MA17]. **modulo** [SYT+17]. **modulus** [CSW13, LC10]. **Moitree** [DKP+19]. **Mojave** [BCBZ14]. **moment** [GJ13, TPKT12, yWpNyL11]. **moment-based** [TPKT12]. **MOMM** [MKL+15]. **Monetary** [AB10]. **Monitoring** [DFCPSF15, TJT+18, BRG+12, CLY17, CLF+13, ES14, JR15, KKG+12, KLL+11, MLLK11, MB10, OM13, PZ15, RGV+17, SYBN12, SZ11, VRG+16, WWY+12]. **monolithic** [LZJ+19]. **monotone** [SD16a]. **MOO** [dRSBA13]. **mortem** [AS10]. **Mosco** [AGBD14]. **MostoDE** [RHRC13]. **MostoDEx** [RHRC15]. **motifs** [WFY+19]. **motifs-based** [WFY+19]. **motivate** [VBC+14]. **Motivating** [LMWM18]. **motivational** [MPS+12, dSF12]. **move** [TVMS18]. **movement** [NCS10]. **moving** [IBM11, KLL+11, Lin12a, URG10]. **MPI** [TGKL19]. **MPLS** [CTHW12, LL10]. **MPSoCs** [NEM17]. **MULAPI** [XSL+18]. **Multi** [ÁRMC16, BLS18, CTL10, DMA18, FMdAR16, GRT13, HM16, LAT10, LyWSZ10, MS17b, MK15b, PSS+16, SRWE10, ACL13, ÁGBYB+14, BV15, BPO+16, BM17, BCS18, CLL10, CW12, CW14, CYT16, CKC15, CAG17, CNKL12, CV16b, FHL+15, FFV19, GMPN16, GCC+15, GZS+18, GGM11, HCB+16, HSM16, JLY14, JXLC15, JS16, KBJZ15, KM11, Kim12, KSH+12, KAM13, KS16, LHJ10, LKP13, LS14, LXG10, LQC+14, LZG15, MLHL12, MVLJ18, MMZ+16, MGB16, MIBV14, NCW+19, OKS+15, PB15, PCHW12, PK10b, PGPC17, PWA+19, PHBJ16, Sal17, SPTM15, SCO13, SHS16, SA18, SZS13, TKP+18, TLL12, WVT+14, WDC12, WCX15, WX10, YFZ+16, YCF+13, YCC16, YLXZ16, YH10, ZMB14, ZJZ+17, ZCC+17, ZP17, fLSN18, AKAA18, CD10, MKL+15, ACSC16]. **multi-agent** [BM17, CNKL12, GMPN16, GCC+15, GGM11, JS16, MIBV14, SPTM15, ZMB14]. **multi-attribute** [BV15, KAM13]. **multi-byte** [Kim12]. **multi-category** [YFZ+16]. **multi-channel** [MLHL12]. **Multi-cloud** [MS17b, CAG17, WCX15]. **multi-collinear** [LXG10]. **multi-component** [BCS18]. **multi-core** [CYT16, CKC15, FHL+15, KSH+12, LS14, PGPC17, WX10, ZCC+17, fLSN18, CD10]. **Multi-criteria** [FMdAR16, MK15b, PB15, AKAA18]. **multi-dimensional** [LQC+14]. **Multi-faceted** [LAT10]. **multi-GPU** [HCB+16]. **multi-homing** [HSM16]. **multi-hop** [CW12, JXLC15]. **multi-item** [CLL10]. **multi-keyword** [GZS+18]. **Multi-layer** [CTL10, SRWE10]. **multi-layered** [BPO+16, MGB16]. **Multi-level** [BLS18, HM16, PK10b, Sal17, ZJZ+17]. **multi-members** [JLY14]. **multi-method** [SHS16]. **multi-model** [PCHW12]. **Multi-objective** [ÁRMC16, PSS+16, CV16b, FFV19, KS16, LHJ10, NCW+19, OKS+15, PWA+19, YH10, MKL+15]. **Multi-paradigm** [DMA18]. **multi-partite** [ÁGBYB+14]. **Multi-party** [LyWSZ10]. **multi-precision** [LKP13]. **multi-purpose** [KM11]. **multi-rat** [MMZ+16]. **multi-relational** [SZS13]. **multi-release** [YLXZ16, ZP17]. **multi-RSU** [ACL13, ACSC16]. **multi-secret** [CW14]. **multi-server** [TLL12]. **Multi-sprint** [GRT13]. **multi-step-ahead** [YCF+13]. **multi-target** [SA18]. **multi-tenancy** [KBJZ15]. **multi-tenant**

[LZG15, MVLJ18, PHBJ16, WVT+14]. **multi-tier** [WDC12]. **multi-vendor** [SCO13]. **multi-vocal** [TKP+18]. **multiagent** [VAM+10]. **multibit** [KPS10]. **multicast** [JXLC15, LZ13, LL14, MV10, ZYZL12, ZADM10]. **multicluster** [ZLD13]. **multicore** [HH17, LFCL12, OB13, TC16b]. **multicriteria** [SL10]. **multidimensional** [ZXTT11]. **multilayer** [NHC13]. **multimedia** [GFP11, GPL+15, LLLK10, YWTW11]. **multiobjective** [PLHP+15, dCPV10]. **multiplayer** [CMK+11, Dan17]. **Multiple** [KSM+16, ACL13, BAI+14, CHL11, GZS+18, HCL12, HWL13a, HSS10, JKC19, NSM17, PPG+13, SC19, SK10, WL15b, WH15, ZWF+18, dRSBA13, vHAT13]. **multiple-base** [HCL12]. **Multiple-case** [KSM+16, vHAT13]. **multiple-GPU** [BAI+14]. **multiplexed** [MSAH16]. **multipliers** [WCB+17]. **multiprocessor** [BLS18, CBL+15, LESL11, LCLS16, WXZ+17]. **multiprocessors** [dOCS13]. **multithreaded** [AR17, TLZ+16]. **multivariate** [AdAD17]. **multiwavelet** [PWW10]. **municipalities** [KKA+19]. **music** [LHH10]. **mutant** [DPP+18, MHLMG14]. **mutants** [MK16]. **Mutation** [CNM18, MK16, DW14, HBT16, LHJ10, dPLV19, PFO+19]. **Mutomvo** [CNM18]. **mutual** [IB11, LZ12]. **my** [BDDS11, KMG+19].

narratives [BS12]. **native** [KQ17, PDK+16, YGN+16]. **natural** [BKS15, CAHV15, KMWL12, SA14]. **navigation** [BPGS13, LK13]. **near** [BKSM13, BKSM14, CL17a]. **near-miss** [BKSM13, BKSM14]. **near-optimal** [CL17a]. **Nearest** [Zha12b, Cho13, HKS+17, LZ12]. **Nebo** [EMBS17]. **need** [JCK+17]. **needles** [dOFB+19]. **needs** [GGT+19, MSSMDC12]. **negative** [CPYZ14]. **neglect** [OBS+18]. **neighbor** [Cho13, HKS+17, LZ12, Zha12b]. **nested** [RQD+17]. **nested-virtualization** [RQD+17]. **net** [AHW10, FYCL13]. **nets** [BHM12, OH15, PPMM12]. **Network** [AO16, GMGTdFR14, JXLC15, SB19, BKLE18, BRG+12, CCH14, CBZ+16, CL15, CL17b, DY15, DRCG12, DAR14, DCT17, HY11, HST16, HB13, JLY14, KY10, KR16, KSHC14, LH11a, LG17, LL10, LLH+16, MB19, MK15a, MJZ+10, NJ17, OK11, OZO+14, SMZC12, Ski13, TJH15, TAF+17, TSCB19, TAB+16, TCCH12, TT10, YCLC17, YLYL17, MMTS15]. **Network-aware** [AO16]. **network-based** [BKLE18, BRG+12]. **networked** [ADMOK+10]. **networking** [PSM12, SCGL+18, YAT11]. **Networks** [ACSC16, AAMS16, AMAY19, ACL13, AC16, BMAH11, Bar15, BCLW11, BND14, CCdR+16, CBS16, CSW10, CWK10, CTHW12, CW12, Cho13, CL13, DBL+18, DBCdP11, EEAZ13, ECRVMS11, HBG+13, HST15, HWHT11, HSS10, JXLC15, KLP10, KCV11, LS17a, LCC10, LT11, LZ13, LL14, LWOY16, LWL+16, LWC+18, LMA15, LKK14, MLHL12, MCC+18, MLLK11, MMZ+16, MLD16, MC10, MDO+10, MT10, MKRO14, MARD16, MAAC17, NSAK10, NNVD17, OZO+14, OH15, PZB10, PD12, RNC14, SM17a, SHN14, SMS11, SGBCP12, SZS13, SHH+15, WMD+10, WMOKY11, WCC13, WOC15, XZP+10, YH19, ZADM10, ZYY+19, AAJD+16, CDRT13, DFCPSF15, GMGTdFR14, SXYW14]. **Neural** [LMA15, DBL+18, DRCG12, EEAZ13, KCV11, KR16, ZYY+19]. **newcomer** [TTC18]. **news** [KP10, LQC+14, TPTV17, WKbOS17]. **next** [CRK+18, PS15, TLK+16a, VRPT18, VPMVM+13, DRCA+19]. **NFV** [KMK17]. **NN** [Zha12b]. **No** [SBAH17]. **NoCs** [MV10, MV11]. **node** [CLY14, TLK+16a]. **Node.js** [KTK19]. **Node/** [TLK+16a]. **nodes** [BK11, GAT15, MKRO14]. **noise**

[CKS15, DEA+14]. **Noisy** [LZ12]. **Non** [ABB15, ZCT+11, ACH19, CTKT13, CHN19b, MPAA15, MJZ+10, NSDI16, PN14, PGRQVV12, ZLD13, ZL17]. **non-boolean** [CHN19b]. **non-coherent** [PN14]. **non-dedicated** [ZLD13]. **non-formal** [CTKT13]. **Non-Functional** [ABB15]. **non-linear** [ACH19]. **Non-parametric** [ZCT+11, MPAA15]. **non-redundant** [PGRQVV12]. **non-stationary** [MJZ+10, ZL17]. **noncontiguous** [BMAH11]. **nonlinear** [GSN+15]. **nonparametric** [SD16a]. **NoSQL** [DII+17, DK15b]. **Nosv** [RQD+17]. **Notation** [AHBA19]. **notational** [HCL12]. **notations** [HRD10, OFR+12]. **note** [Ano11m, Ano17m]. **notes** [ZXG10]. **Novel** [CNSG12, HBT16, KSRD10, CNL13, CH10a, CBZ+16, DS16a, GSN+15, HLLS13, KRJ17, LC10, LHH10, LXCM11, LGH+17, LWXZ10, LNW+11, LNY+11, LWW+10, LLC17, LY18, MCC+18, MRBN17, OY16, PZB10, ST13, SSP+15, TVMS18, jT12, TT13, TTT14, WGZ+12, ZGL+10]. **novice** [CCP18, CDS19]. **nucleus** [HHC12]. **null** [CBSM16]. **NUMA** [CYT16]. **number** [MIUM12, SYT+17]. **numbering** [Ano19l]. **numbers** [ANC11]. **Numerical** [LJ16]. **numerically** [EMBS17].

O [FTC16, SMZC12, SC19]. **O1FS** [PNY14]. **object** [Al 12, BPSK18, CZC+18, CL15, CL17b, CdL18, CCMOM19, EVR11, EB14c, FBB+12, FTSC12, KCAS13, KCR16, KS19, KR16, MJ14, Mer13, OAC11, OB13, SKL10, SH17, SSSA17, SSS17, VTZ+17, YLC18, ZXL10, dAGSdFS+15]. **object-oriented** [Al 12, BPSK18, CZC+18, CL15, CL17b, CCMOM19, EVR11, EB14c, FBB+12, FTSC12, KCAS13, KS19, KR16, MJ14, Mer13, OAC11, OB13, SKL10, SSSA17, SSS17, YLC18, ZXL10, dAGSdFS+15]. **objective** [ÁRMC16, CV16b, DRCA+19, FFV19, KS16, LHJ10, LY18, NCW+19, OKS+15, PSS+16, PWA+19, RRV19, YH10, MKL+15]. **objectives** [dRSBA13]. **objects** [CRC19, IBM11, KLL+11, Lin12a, SJ17]. **Oblivious** [MXZ11]. **Obscured** [DM17b]. **observation** [CV16a, WHY+12]. **Observational** [YBE17]. **Observations** [CBT+14, KWS+17]. **Obstacles** [DCP12, GSdS16]. **obtaining** [CHL+13]. **OCCI** [MBT16]. **OCL** [CCR14, KBHG17, OT17]. **Octopus** [BSG12]. **ODC** [CPR13]. **off** [AHC+11, CFMRL11]. **off-the-shelf-based** [AHC+11]. **Offloading** [CCL+19, AR12, ASV+16, DSGS17, RHHT18, YGN+16]. **offs** [SPCT18]. **Offshore** [SWA+13, KNA11]. **OLAP** [SGW+15]. **OMG** [BCF18, HBG+13]. **omnipresent** [AHH+10]. **Omniscient** [BLC+18]. **On-demand** [HST15, DR12, HST16]. **on-line** [DWC17, FHY17]. **One** [BMS11, AAN11, KM13, LW13a, MT10, ZL12a]. **one-block** [ZL12a]. **one-level** [MT10]. **One-time** [BMS11, LW13a]. **one-to-one** [AAN11]. **Online** [SGEK19, VPL+10, CL17a, Dan17, GSM15, KH10, MCS+12, YCWW15]. **only** [HRB12]. **onto** [AO16]. **ontologies** [HS11a, LPP+10, RHRC13, ZLT10]. **Ontology** [MCS+12, YSG17, AACT13, BLLGSMB11, KSAR18, MJF10]. **Ontology-based** [YSG17, MJF10]. **Open** [CdL18, GPPT16, ACB18, ALRP16, BCG+14, DFCPSF15, ESM19a, EB14b, GDLB16, GW10, HBR19, JBSL12, KTF15, KKT17, KHMA12, KKA+19, KK17b, LRD+19, NPC12, PAB+17, PPS12, RA16, RNR17, SA12, SG12, VGSN18, WFF18, YLXZ16, ZFY+19, CFMRL11, GL14, LMWM18, LLS11, MP12, Shi12]. **open-source** [RA16, WFF18]. **OpenFlow** [CCdR+16]. **Opening** [JBSL12]. **OpenMP** [DSGS17, NEM17]. **OpenPGP** [MBB11]. **OpenStack** [ZFY+19]. **Operating**

[ESRF19, GPPT16, HK13, SRT+12]. **operation** [LWB+13, Lin14, WGZ+12]. **operational** [OD10, OKMD12]. **operations** [DZT+14, KD18, PWY+16]. **Operator** [ILZ14, CV16b, HWR17]. **Opinion** [GNA17, TPTV17]. **opportunistic** [BCLW11, NSAK10, SCGL+18]. **Opportunities** [SBAH17, AZX14, ACW10, BDO11, CDPM17, LAH+16, Oja16b, TVMS18, TC10, TC11]. **Optical** [AT18]. **Optimal** [LM13, WXY+17, AM10a, CL17a, DDD14]. **optimisation** [GA13, PACH15, RRV19, WRTP+13]. **Optimization** [Pot13, ADMOK+10, ALRP16, ÁRMC16, BLM10, BZ14, BAI+14, CPYZ14, CAG17, CV16b, ELHC13, GRT13, GCSÁddP11, KHSD10, KAM13, LSE12, LZCL19, LLHY19, LLZW14, LCL+12, MCL+17, MdOBW+15, MBAG11, MAG12, MRJD+12, PS15, PRN17, RCCVB11, RGH17, San16, Ski13, SGO13, SWES16, TJH15, TXLC12, TDW+14, XJZ+15, YTW+13, ZYZZ14, Zha16, dCPV10, dRSBA13, AZ11]. **optimize** [AN16, AKL14, LVVTP17, MAS13, RMCH+14]. **Optimized** [DHC+11, DRCG12, GWW+11, KCV11, YF15, ZDC+11]. **Optimizing** [LQW+12, QOLJG16, BM18, ÇT13]. **oracle** [JCK+17, KAS18]. **oracles** [CL18, PW18, RG10, ZTPT18]. **orchestrated** [ABC+13]. **orchestrations** [TTC15, ZTCZ16]. **Order** [LPP15, LHJ10, dPLV19, MCKA18, NBF+19, PMDH13, nQYD11, WCC13, ZJZ+17]. **ordered** [JHYK10, MLD16, YZY+18]. **Ordering** [ZA12, PS13]. **organisational** [WK15]. **organisations** [YMM+17, YMM+19]. **organization** [Bos12, JBSL12]. **Organizational** [ISM11, SG12, Woh16, JMML17, MMB10, WKbOS17, WRR14, WSM15, ESM19a]. **organizations** [ASG17, AK16, BdMSNO+17, BCG+14, KK11, KFN19, PPG+10, SST16, SM16]. **organizing** [BM17, GAKF13, HM16, XLM+15]. **Oriented** [BBEM11, EMSU11, MAR+19, Al 12, AM15, ARS10, AK15, BPSK18, CCG+10, CZC+18, CL15, CL17b, CHL+13, CGPT14, CCMOM19, EVR11, EB14c, FBB+12, FTSC12, GMMC13, ISM11, JLQ+10, KCAS13, KS19, KKH+16, KR16, LMN10, LMGHB17, LLL+14, LN13, MJF10, MJ14, MTF14, Mer13, MPS+12, MPLL+15, MGvFGCB10, NFSM11, NBR+13, OAC11, OB13, PNJGF12, PFF12, Pot13, PHBJ16, SCS15, SGP12, SKL10, SdSLS+19, SSSA17, SSS17, SWES16, TKK+19, THWC10, WXY+17, WZM12a, WZM12b, YLC18, ZWM+18, ZXL10, dVRB13, dAGSdFS+15]. **origins** [BWW+18]. **OSS** [BWP16, KTK19, ZCC+19]. **other** [SC14]. **our** [WLL17]. **outage** [DM17b]. **outcomes** [CBAV16, FMRM15]. **outlook** [DFG+13]. **output** [KAS18, SRT+12, SED16]. **outsource** [SYT+17]. **outsourced** [DvdVA+13, ZML17]. **outsourcing** [AV12, AK16, BWP16, DPVvV19, Jør14, KNA11, ZHAY12]. **over-fitting** [WQJZ10]. **Overcoming** [Che17]. **Overflow** [CCD19]. **overlapped** [MK16]. **overlay** [DY15, MARD16]. **overload** [JEEL16]. **overview** [CBT+14, EGM+11]. **owners** [GZS+18].

P [LJDK10]. **P/S** [LJDK10]. **P/S-CoM** [LJDK10]. **P2P** [SSP+15, LLW12, OK11, SSP+15, ZXTT11]. **P2P-based** [ZXTT11]. **Package** [ESRF19, AAM16]. **packages** [AKKS11, DYC19, JS11]. **packed** [LZL+18]. **Packet** [GFP11, BP15, FGBC10]. **pages** [DH13]. **pains** [EZG15]. **pair** [CRSS14]. **pair-programming** [CRSS14]. **paired** [LWBH16]. **pairing** [RZL+18, Shi10]. **Pairwise** [LPP15]. **palette** [CPL13].

Palladio [FSPH+16, TKCR14]. **palm** [WLL+13]. **PAM** [TKSRP11]. **paper** [TZ12]. **Papers** [KT16, BCL+18, Bor12, CL11, LH12]. **paradigm** [DMA18]. **Parallel** [JWT17, AHW10, BAI+14, EMBS17, GE15a, GTY12, LZY+15, MCC11, PDBD18, RG10, TS19, TGKL19, TLK16b, WWYZ11]. **parallelism** [CBL+15, OWB11]. **parallelization** [LAH+16, MDBC17, NEM17]. **parallelize** [XPBC11]. **parameterized** [NTT19]. **parameters** [KLB15, MAG12, PG15]. **parametric** [GVPPM18, LGS+19, MPAA15, ZCT+11]. **Pareto** [NCW+19, YH10]. **parity** [CSS10]. **Parkinson** [GMPN16]. **PARS** [TS19]. **Parsed** [EVR11]. **parsing** [AACT13]. **part** [LKJR10a, LKJR10b, BKW10]. **partial** [CHL11, EMBS17, KVT+17, MCKA18]. **Partially** [SBT19, HRB12, JHYK10]. **partially-ordered** [JHYK10]. **participant** [AL10]. **participating** [CH10a]. **participatory** [CRKH11, Chr16, DEA+14]. **particle** [LLZW14, dCPV10, AZ11]. **partite** [ÁGBYB+14]. **partitioned** [XB19a]. **partitioning** [CH10d, KSENM17, MCC11, YZL+14]. **partnership** [AK16]. **party** [AHC+11, LyWSZ10, YC12]. **passing** [CL18]. **password** [CTL12, HCC10b, WZM12a, WZM12b, YC12]. **password-authenticated** [WZM12a, WZM12b]. **path** [GP10b, MK15a]. **paths** [GZY11, GTY12, KSS15, LWLL12, LWBH16]. **patients** [GMPN16]. **pattern** [BKLE18, FM11, HZ15, HP16, HK13, JCYT16, KPS10, KY10, KLL+11, KLL17, LNY+11, LW13b, NKZ17, SOS+18, WLC13a, YCF+13, YZC15, YZY+18, ZFS15, ZLmLN14]. **pattern-based** [HP16, KY10, KLL17]. **pattern-driven** [HK13]. **Patterns** [ABJ+17, FHL+18, AKKS11, ACS13, BZ10, CSF+14, CCG+10, CHL11, Cic16, CRESF+13, FVHF+15, FMR11, GGM11, HSC15, HA10, HJ12, HWL13a, HHK13, JLGM17, KA18, KKR16, KVT+17, LKRYTS18, LJL+12, LLX+11, MRY17, MSK+17, MKHLB16, RAJ15, SCS15, Sal17, ŠK11, SB17b, SJC13, SVM19, Sta10, VPL+10, WCC+14, YZC15, ZTZ+11]. **patterns-based** [HSC15]. **pave** [WLL17]. **payload** [FF12]. **payment** [YL16]. **PCS** [WCC13]. **PDE** [OLZN13]. **Peak** [ACRD19]. **Peer** [BCG+14, KSHC14, LHH10, LKK14, MLD16, OK11, SHN14, SS13, YH13]. **peer-to-peer** [KSHC14, LHH10, LKK14, MLD16, YH13]. **people** [AKH12, FFdRG+14, HWdS+15, MPLL+15]. **people-oriented** [MPLL+15]. **Per-flow** [AM10a]. **Perceived** [OK18, CFRPC+18, ETM10, OGK13, VLL18]. **percentage** [LLK11]. **perceptions** [GW10, LLS11]. **perceptron** [NHC13]. **perceptual** [MK11]. **Percolation** [Pal12]. **Percolation-based** [Pal12]. **perfect** [LLC10]. **perfecting** [RHM+18]. **performability** [EBJ17, EK13]. **Performance** [AAMS16, AMAY19, AAH10, AAH12b, BMAH11, BZ14, DZT+14, GLJ13, LJM11, MK17, MNM12, NSAK10, PK10a, SPCT18, TPKT12, Zha16, AdB13, AHLH16, ATvHJ18, AL10, BML+13, BHM12, BDPRC18, BRS+18, BT17, BK17, CSW10, CLL10, CBZ+16, CS12, DWC17, FTC16, HCY19, HZH+16, KBDGAW16, KA18, KA14, KCV11, LZCL19, LZR16, NK14, PCHW12, PH13, Pot13, QOLJG16, RHHT18, RLY+13, RQD+17, RVCM17, ROFGFRM13, SPC16, SCwY12, Shi17, SA11, SSP+15, SS13, TBC+16, TKCR14, TDW+14, VSDD12, WYCC13, WMD+10, ZHH+17, dL13, ADMOK+10, OSH+18]. **performance-directed** [SPC16]. **Performing** [CTKT13]. **period** [FHL+15]. **Periodic** [HLW+15, CHL11, HSC15, HyLW+12,

KPS10, KKR16, KVT+17, TKJL13]. **periodic-frequent** [KKR16, KVT+17]. **Periphery** [LLK11]. **permutation** [HRB12]. **Perpetual** [Fei12]. **persistence** [SPCT18, TGP11]. **persona** [ARH+17]. **personal** [BSG12]. **personalities** [KBDGAW16]. **personality** [ARH+17]. **personalization** [FMPS16]. **personalized** [AM10b, ECRVMS11, MOD+19]. **personalizing** [SAA+10]. **personnel** [GA11, PPN+15]. **perspective** [BDM+19, EED16, EUR+13, HM16, JCYT16, KBJZ15, LS17b, LMWM18, LZHS11, LDS+19, SGP12, SAR15, SOS+16, Som13, GRR16]. **perspectives** [AKH12, CSMC19, NAB+13, SW19, YLCZ12]. **Perturbation** [LXJL10, LCC+13]. **Perturbation-based** [LXJL10]. **perturbations** [XYZ+19]. **pervasive** [AHH+10, BSG12, CMK+11, KAK+13]. **Petri** [AHW10, BHM12, FYCL13, OH15, PPMM12]. **Petri-nets** [OH15]. **PF** [LWBH16]. **PF-Miner** [LWBH16]. **Phase** [MN19, HJ12, LZC14]. **Phase-wise** [MN19]. **phases** [APS16]. **PHash** [Shi17]. **Phi** [DSGS17, GGK19]. **PHP** [DGBE18]. **physical** [AWSE19, CSMC19, GVPPM18, GBH+16, GSP+19, LS17b, LDS+19, NI13, ZAY19]. **physical-task** [NI13]. **Pig** [SAH12]. **Pillar** [BRG+12]. **pipeline** [KAS18]. **pipelined** [WMOKY11]. **pivoting** [PS14]. **pixel** [HCL12, YWTW11]. **pixel-value** [YWTW11]. **PL** [FGB+19]. **PL/SQL** [FGB+19]. **placement** [DHC+11, OCC12, XJZ+15]. **plagiarism** [TLZ+16]. **plain** [LW13a]. **plan** [GLWY10]. **planning** [ABL16, BMLL14, BRS+18, BK17, FCB+16, GRT13, LHCT19, MH12, Ski13, WAWO12, WCC13]. **plans** [Pot13]. **plasticity** [dVRB13]. **Platform** [BV18, vHJPB+17, AKL14, APS+10, AM10b, BD17, CdAM+14, CdR+14, CMM15, CDPM17, DAG19, HS15, HWdS+15, MOD+19, MIBV14, NBR+14, PAS+10, QOLJG16, RM19a, RA16, ZLD13, vAAJ16]. **Platforms** [SKT17, FHL+15, PGPC17, ZCC+17]. **played** [WLL17]. **player** [MQG+17]. **playing** [Dan17]. **playout** [FGBC10]. **PLC** [VHFF+17]. **PLC-based** [VHFF+17]. **PMIPv6** [CL13]. **point** [BGLG13, EAH+11, MJZ+10, WL10]. **points** [GAT15, ZZ16, SSP17]. **Poisson** [AC16]. **poker** [MH12]. **policies** [FBB15, PCCB+11, SW10]. **policy** [BLS18, BL19, FSGW11, RMD11, ST11, TKSRP11]. **policy-based** [RMD11, TKSRP11]. **polymorphism** [TC10]. **popularity** [CFMRL11]. **port** [BKH10, MV10]. **portability** [TLK+16a]. **portable** [EMBS17, CDS10]. **portals** [HYA11]. **portfolio** [CBC+15, URG10]. **positioning** [CSW13]. **Positive** [SKK+18b]. **post** [SS12, AS10]. **post-adoptive** [SS12]. **Post-mortem** [AS10]. **postcamera** [Lin14]. **posteriori** [LWB+13]. **posting** [MCC11]. **posture** [SHBC19]. **potential** [KWS+17, VT14]. **Power** [BLM10, TKJ15, wZfG13, wZfG14a, wZfG14b, ASV+16, APS+10, CWK10, CW12, CRK+18, EBJ17, KKHH11, MAS13, PAS+10, RITF+11, TC12, VA17, VAJ18, WDC12]. **Power-aware** [TKJ15, wZfG13, wZfG14a, wZfG14b]. **Practical** [CSM15, SKK+18a, AMS+10, FGB+19, FG15, LWBH16, MMTS15, SOS+16]. **Practice** [BKW10, CJT+16, BGS+16, BDPRC18, GTA14, Han12, KTF+16, LKRYTS18, LWSH19, NBF+19, RZL+18, SB14, VCB+18, Wie14]. **Practices** [BV18, BD16, BV16, BCG+13, CCP18, CWJK13, ETM10, GV10, GZ13, GCBCD15, GCDY16, IBAH12, JDLS16, KFN19, KT12, MHB18, NBF16, OK18, PFL16, SW19, WWSS13, ZADA15]. **Practitioner** [LLS11, GCDY16, LMNA17, NBF+19].

practitioners [AHC+11, CCP18, PV18]. **Pragmatic** [GVPPM18]. **Praspel** [DGBE18]. **precedence** [AR18]. **precious** [vV10]. **precision** [LKP13]. **predicate** [aSRZ+18, WL15b]. **predicates** [DOL+16, GLOM19]. **predict** [AAM16, KY10, MER17, NHH+12, OY16, RBS19, WRS+17, XYCL17, ZXL10]. **Predictable** [ICSK14]. **Predicting** [ACB18, ABL16, CPV+14, SD16a, ZcKS17, AdAD17, GXZ+19, KR16, LMA15, VGSN18]. **prediction** [Al 12, AGC13, AC16, ABJ10, CPD+18, CBAV16, CMM15, CSS+13, FF12, FSS+13, HJBH10, HC10, JLZ+19, KY10, KCV11, LCT10, LCLF13, LG15, LJA+11, MdFD+15, NCW+19, ÖT18, PEO11, PSM12, PB15, PPB19, RSB+16, SLW+15, SHBA+16, TAB+16, ULS19, VTZ+17, WFY+19, XLW18, XLX+19, XLL+19, YCLY13, YCF+13, YJZ17, ZCY+16, ZL17, dCPV10]. **Predictive** [PJT+17, CS15, RSB+14]. **predictor** [OLZN13]. **preemption** [Kim17]. **preemptive** [FSPH+16]. **Preface** [MS17a, SLR16]. **Preference** [FFV19]. **preferences** [MLD16, SPLW17]. **preferences-based** [MLD16]. **preferTrust** [MLD16]. **Prefetching** [MJ18, LZCL19]. **Prefetching-aware** [MJ18]. **prefix** [ND18]. **preimage** [ZL12a]. **preliminary** [Kit10]. **premier** [LCM+13]. **premise** [AAMS14]. **preparation** [SAH12]. **presence** [LJM11, PS15, PJK13, SMZC12]. **PRESENT** [ZGZ+13]. **presentation** [ZLZ11]. **preservation** [LCLF13, ZLmLN14]. **Preserving** [AAH12a, MCV16, BKSM13, BKSM14, BJK+11, DEA+14, HL11, Lin16]. **preventing** [WS12]. **prevention** [Aba13, BRG+12, KHC16, WAWO12]. **price** [LZL+15]. **pricing** [AB10, LZO+16, Oja16a]. **Prime** [CG15]. **primitive** [LCLP16]. **primitives** [HZ15]. **Principles** [LMGHB17, BGS+16, BPSK18, GDFFPG+10, KFN19, ZMK12]. **print** [KPS10, PKS18]. **print-cam** [PKS18]. **print-scan** [KPS10]. **prioritization** [AWSE19, CZC+18, DvdVA+13, HMOK18, HCC10a, HPH12, HLLS13, HCT+15, JC15, LZKW12, MCTM11, MKS+18, MB17, PSS+16, PSEE12, PMB15, PWA+19, SPLW17, SB12, SCC16, SD16b]. **prioritize** [WZY+18]. **Prioritized** [ZS16, PD16]. **Priority** [HYA11, AKA+15, FHL+15, FSPH+16, KSN17, Kim17, LCLS16, LZ13, RXY+19, wZfG14b, dOCS13]. **priority-aware** [LZ13]. **PRISMA** [ARS10]. **Privacy** [Chr16, DEA+14, SY16b, AGBD14, CDS10, CRKH11, ECRVMS11, Lin16, MXZ11, MIKG13, SLZ12, SGBCP12, TKH+11, WSJ14, YYS+16, BJK+11]. **privacy-aware** [AGBD14]. **privacy-enhanced** [TKH+11]. **privacy-focused** [WSJ14]. **Privacy-preserving** [DEA+14, Lin16, BJK+11]. **private** [CHL+13, GPSS+13]. **privilege** [HBM19]. **Pro** [BPB19]. **Pro-IDTV** [BPB19]. **Proactive** [DM17a, SKK+18b]. **probabilistic** [AMP12, DC11, DK15a, HN17, NTT19, PACH15, RXY+19, SGO13]. **probability** [MSGGL12, RCCVB11, YXP+18]. **problem** [EK12, KK17b, MJ14, MARD16, PS15, RSBA19, SS15, XJZ+15, ZJZ+17, ZGL+10, CKL12, DRCA+19]. **problem-solving** [KK17b]. **problems** [AR17, JK12, KSENM17, LCL+12, SYBN12, TTR+13, VLL18, VHL14, YF15]. **Procedural** [WV11]. **procedure** [AK15, BKSM13, BKSM14]. **procedure-oriented** [AK15]. **procedures** [Ski13]. **Process** [HSPD14, MMB10, AKH12, AAMS14, AAGT16, AHLH16, APW14, AAN11, AF16, AMGG14, BWW+18, BBA10, BGLG13, BPB19, CNG16, CNKL12, FDÁM12, GMMGP15, GDLB16, HVK11, HPF16,

HBOS13, IBM11, JED18, JAS19, JMML17, KKT17, KSKP11, KSAR18, KTF+16, LPM15, LMR12, LMGHB17, LZKW12, LRD+19, LMNA17, MdOBW+15, MSGGL12, MAAC17, OFR+12, PB11, PCCLdGP12, PCFRP19, PW10, PPG+10, RDPM19, ŠK11, SS14a, SWA+13, SZW+16, SK18, TAF+17, TTC15, Uzz13, VLC+17, VKL16, VVA+15, Wau19, WMW12, XLW18, ZADA15, ZL17]. **process-centered** [KSKP11]. **process-line** [BWW+18]. **Processes** [FFdRG+14, AHW10, AC16, AM10a, BRS+18, CFRPC+18, CXO+15, CLF+13, FSG+11, JST10, JR15, PRS11, RRM17, SMZC12, YLXZ16]. **processing** [CM12, DM17a, DWC17, FS19, FGD+17, HWR17, KAS18, LCC10, LPP+10, Lin12a, RVCM17, SHN14, SMM17, TS19]. **processor** [TC12]. **Processors** [CD10, TXLC12, WWL+10]. **produced** [RM19b]. **producing** [BV16, JBSL12, MPAA15]. **Product** [CBT+14, ESWA18, AC19, AKL14, AWSE19, BKS15, BHM12, BBD18, BdMSNO+17, BBS10, CHN19a, CHN19b, CdSdSG+18, CFAP17, CNKL12, CV16b, DGRN10, DV10, EB14a, ESM+19b, FFV19, GMMGP15, GWW+11, HGBS18, HJN11, HPF16, JG14, JKL19, KCV+19, LMN10, LNTS19, LGS+19, MNS13, MCV16, MAGC+17, MD16, NBA+17, NBA+15, OGRJ+18, OH15, PLHP+15, PBD+12, RTM19, ROR11, SBT19, SSS17, SdSGdMSN+13, SSAS11, TBG13, URG10, UD10, UIK17, WAG15, WGS+14, WR10, WBBK18, YMM+17, YMM+19, dSdMSNO+14, dOSdAdSG17]. **product-form** [BHM12, OH15]. **product-line** [LNTS19, UIK17]. **production** [FKWVH19, VHFST15, VHFF+17]. **productivity** [BMB19, RSGH12]. **products** [HBR19, RHL+17]. **profile** [Cic16, OCC13, RZMPM12]. **profiles** [BK17, PC10]. **Profiling** [Ala15, KMK17, LWLL12, TZ12, TC12, WLZ+17a, WLL19a, WLL19b]. **profit** [GCMB17]. **program** [BHH+10, CS16, DW14, EK12, JCK+17, JRO12, LLL17a, MM19, MJ19, SZ11, aSRZ+18, XST18, YLYL17]. **Programmable** [CBC14, AYZI10]. **programmers** [CDS19]. **programmes** [LLM+17]. **Programming** [BSDD14, MAR+19, AR17, BCFP19, BDG13, BSB12, CdAM+14, CCR14, CCG+10, CAG17, CRSS14, GE15a, KBDGAW16, LHJ10, MNO18, NBR+13, PN14, PTF+15, RBS19, RAJ15, SGP12, SPCT18, YLC18]. **programming-level** [GE15a]. **programs** [ASdMGM14, ABS19, dSACdLF17, CL18, DOL+16, ECS15, ES14, EED16, GPMI13, LMH10, LAH+16, MNM12, PJK13, SÁMI17, SM16, aSRZ+18, TKJ16, TLZ+16, TGKL19, YWWS10, dSF12]. **progress** [HH17]. **Progressive** [HHH10b, YCWW15, JHYK10, FMRM15]. **project** [ASMN15, ACB18, APCS10, CS19, CBAV16, CC11, GL14, GGC16, HM16, JSL16, Jør16, JR15, LS17a, LMIV15, LSD+16, NBF16, PCCK18, RSBA19, RKK16, SSF15, SAR15, Sta10, VLL18, WK15, YAY13, YFZ+16]. **projects** [AS10, AAH12a, AdB17, ÇB16, CFMRL11, DvdVA+13, GC13, IF19, JKC19, Jør14, KP10, LHCT19, LMA15, LMNA17, MSB18, MAH18, MVSG18, PD16, RSB+14, RSB+16, RCCVB11, SNDC13, SHHL12, TNK+19, Uzz13, VGSN18, WKbOS17, ZCC+19, dOSdAdSG17]. **Prolog** [AR17]. **ProMARTES** [TAB+16]. **promised** [HS11b]. **promote** [GMMGP15]. **Promoting** [GRBNA10, dVRB13]. **prone** [MA17, ZXL10]. **proneness** [FP18, HJBH10, MRS18, ZCC+19]. **proof** [LMGHB17]. **proof-of-concept** [LMGHB17]. **Propagating** [WMW12]. **propagation** [ATvHJ18, DRELHE16, MRS18, MRRS19].

properties [DNSH13, HBG+13, OMLB16, PH13, PJT+17, PDBD18, WWY+12]. **Property** [ZLG10, KU10, ZLmLN14]. **proposal** [FCMJ12, SLLL14]. **proprietary** [KHMA12]. **prospective** [Gar13]. **prospects** [FGD+17, GTF15, KKA+19]. **protected** [LLLK12, RF14]. **protection** [GMGTdFR14, JEEL16, KJ10, SY16b, TLL13]. **protections** [BCR+19]. **protocol** [AN16, CSW10, CTHW12, CW12, DMSG11, MDO+10, MT10, OHJ10, PZB10, PPS12, SC14, WZM12a, WZM12b, WC11, XZP+10, YC12, ZG10, AM13, GMGTdFR14, ST11]. **protocols** [BCS18, CdL18, DAR14, KKLC12, SSP+15, YSL+10]. **prototype** [RO13b]. **prototype-based** [RO13b]. **prototyping** [CH10c]. **Provably** [LH11a, YC12, ZG10]. **provide** [ECRVMS11, LLW12, WL17]. **provider** [CWJK13]. **providers** [MIKG13]. **Providing** [HH17, MCV15, CX10]. **province** [GV10]. **provisioning** [KAK+13, MPLL18, SB19, THWC10, WZJI14, ZDC+11]. **PROW** [LPP15]. **Proxy** [TLK+16a, FSGW11, HNS12, SLZ12, SV12, SXYM11, WHY+12, CL13]. **pruning** [WQJZ10]. **PS** [CDRT13]. **PS-QUASAR** [CDRT13]. **Pseudo** [JC10]. **PSO** [MA17, TLL13]. **PSO-GA** [MA17]. **PSP** [RZL+18]. **public** [CMK+11, RPSL10, YYS+16]. **public-key** [RPSL10]. **publish** [CDRT13, HBG+13, LJC16, LVPMPCLS13, RMD11, LJDK10]. **publish/subscribe** [CDRT13, HBG+13, LJC16, LVPMPCLS13, RMD11, LJDK10]. **Publisher** [Ano11m, Ano17m]. **Publishing** [VGM13]. **pull** [JLZ+19, LMPM18]. **pure** [OK11]. **purpose** [KL10, KM11]. **pursuit** [RHM+18]. **PVD** [YWWS10]. **Pycots** [BDLM16].

QA [JSHW14]. **QoS** [BMLL14, BVV+10, CV16a, CDRT13, DHC+11, EGG+11, HBG+14, KAM13, Li11, LG15, LLWL14, LGZ+18, MLHL12, MV11, PPMM12, PPMM14, PPMM17, PG15, SWES16, WTG+15, YZG+13, ZADM10]. **QoS-aware** [BVV+10, CV16a, DHC+11, MV11, YZG+13]. **QoS-based** [LLWL14]. **QoS-oriented** [SWES16]. **QR** [LQLC16]. **QSIC** [CL11]. **quad** [LBCL10]. **Qualitative** [San16, GTF17, PV18, RM19b]. **qualities** [PSZ17]. **Quality** [AJG+15, AS16, CLH+13, ELHC13, FGBC10, GA13, MVLJ18, MVSG18, WNC17, AHOP14, AAC+17, BDD+15, BLLGSMB11, BAM17, ÇB16, CFMRL11, CdCAdO18, FOR19, FFWE17, FG15, GMMGP15, HBG+13, HJN11, HNH15, HPF16, HWHT11, HTH13, HKS+17, JLGM17, KGB11, KS19, LAT10, LJA+11, LWZ+16, LSD+16, LHCT19, LMNA17, OWG19, OGK13, PCYZ12, SKF17, VSS+11, WKH11, ZTCZ16, ZGYS+15, vdBSvS+19, YDGB+12]. **Quality-adaptive** [CLH+13]. **Quality-driven** [ELHC13, LWZ+16]. **QualityScan** [WOC15]. **quantify** [EED16]. **Quantifying** [ACG+15, HFE10]. **quantitative** [AdAD17, CSF+14, CGS19, GTF15, GTF17, KGG18, MGvFGCB10]. **Quantitatively** [nPHW+16]. **Quantum** [AR18, LyWSZ10]. **QUASAR** [CDRT13]. **Quasi** [WMWZ12, CBL+15, KKH+16, MWM12, MRT17]. **quasi-deadlines** [CBL+15]. **Quasi-static** [WMWZ12]. **quasi-synchronous** [KKH+16]. **quasi-systematic** [MWM12, MRT17]. **quaternion** [yWpWyYpN13]. **queries** [Cho13, GSN+15, IBM11, JHYK10, LCC10, MMP15, SED16, ZJL10]. **query** [ACL13, CH11, CJL11, DII+17, GLWY10, ILZ13, LPP+10, LWXZ10, MCL+17, Pra18, RVCM17, SHN14, TLWS10, ZWM+18]. **Querying** [ILZ14, CNG16, MIUM12]. **question** [PMWC12]. **queueing** [OH15]. **queues** [KSN17]. **queuing** [MB19]. **QuickFuzz** [GCMB17]. **QVT** [KLL17].

R [PSZ17, PDBD18]. **R-SHT** [PDBD18]. **R-Tree** [PDBD18]. **races** [TKJ16]. **Radigost** [MIBV14]. **Radio** [AAJD+16, AMAY19]. **RAID** [YTW+13]. **RAID-structured** [YTW+13]. **raising** [LCT10]. **RAMCloud** [LLGZ13]. **Random** [CKMT10, MGM10, WS12, YCG+14, CT11b, CLH+13, CZC+18, GP10b, GLW13, HZH+16, MRBN17, RG10, YWEL+13, FSS+13]. **randomized** [JC15]. **range** [Cho13, GSN+15]. **ranging** [MAAC17]. **rank** [AKB11]. **ranked** [GZS+18]. **ranking** [DH13, SED16]. **rankings** [RM19b]. **ranks** [AN10]. **Rapid** [FFWE17, TGBF17, CCG+10]. **rat** [MMZ+16]. **Rate** [VPL+10, FBD+18, PMDH13, PDS19]. **rate-dependent** [FBD+18]. **rates** [DW11]. **ratings** [PQBP16, XWZC14]. **rationale** [Xia13]. **rationalize** [vHAT13]. **ray** [BAI+14]. **RCDA** [PvV12]. **RDF** [RHRC15]. **RDMA** [RLY+13]. **RDMA-based** [RLY+13]. **RDOTE** [VGM13]. **Re** [CRESF+13, SV19, FSGW11, NCS10, SLZ12, WHY+12, GRR16]. **re-encryption** [FSGW11, SLZ12, WHY+12]. **Re-engineering** [CRESF+13]. **Re-implementing** [SV19]. **re-location** [NCS10]. **react** [RMD11]. **reactive** [MNSA16, SÁM+16, MNSA15, SAMN12, SÁMI17]. **reactor** [KJ10]. **read** [DZT+14]. **readers** [WL17]. **ready** [OSH+18]. **Real** [CLF+13, DYC19, GBC16, LKK14, MK11, AMP12, ABB19, ACL13, ACH19, BLS18, BL19, CPS11, CLL10, CZG+15, CBL+15, CS12, CF12, DOL+16, EBEL18, EK13, FHL+15, FHY17, GLZ15, GPPT16, HyLW+12, HCB+16, HZG+12, HNS12, ICSK14, KC16, KLB15, LESL11, LSE12, LS14, LS17b, LFCL12, LWL+13, LC11, LHP+09, LHP+10, LGS+19, LPB19, MBD13, MFMCY12, NPC12, PG15, RFM10, RXY+19, RGH17, SPC16, SMS11, SK10, TKJL13, TKJ15, TC16b, VZT17, WMWZ12, WX10, YLCZ12, wZfG13, wZfG14a, wZfG14b, ZW15, ZHGL11, ABCH13]. **Real-time** [CLF+13, DYC19, GBC16, LKK14, MK11, AMP12, ABB19, ACL13, BLS18, BL19, CPS11, CLL10, CZG+15, CBL+15, CS12, CF12, EBEL18, EK13, FHL+15, FHY17, GLZ15, GPPT16, HyLW+12, HCB+16, HZG+12, HNS12, ICSK14, KC16, LESL11, LSE12, LS14, LS17b, LFCL12, LWL+13, LC11, LHP+09, LHP+10, LGS+19, MBD13, MFMCY12, NPC12, PG15, RXY+19, RGH17, SK10, TKJL13, TKJ15, TC16b, WMWZ12, WX10, wZfG13, wZfG14a, wZfG14b, ZW15, ZHGL11, ABCH13]. **real-valued** [KLB15]. **reality** [IF19, NI13, VSS+11]. **realization** [hChSyCwL10]. **really** [RDPM19]. **realtime** [WFY+19]. **reasoning** [CCGdL16, OT17, TBSvdW18]. **reasons** [CBVF19]. **reassembling** [LZL+18]. **Reassessing** [KP10]. **receiver** [MXZ11]. **recently** [HHKWB16]. **recently-evolving** [HHKWB16]. **recently-introduced** [HHKWB16]. **rechargeable** [LWOY16, LWL+16, LWC+18]. **recognition** [CCWT13, HHC12, WLL+13, ZLmLN14]. **recommend** [GJ16, dOFB+19]. **recommendation** [GJ16, GMR17, HSL14, LQC+14, MCS+12, NKZ17, SZW+16, SYXL17, XWZC14, XSL+18, ZCY+16]. **Recommender** [SHH+15, CCY11, LK16, NTdSX13, TZ12, YSG17, YH13, GMLSF+15]. **Recommending** [BCBZ14]. **Reconciling** [AKH12, HNZ17, MWM12]. **reconfigurable** [CFN10, GHBD+16, KRD16]. **reconfiguration** [BJG11, BBD18, BDLM16, DS16b, Li11, LG15, LJDK10, PDL+16]. **reconfiguring** [PLHP+15]. **reconstruction** [BAI+14]. **record** [dNPM18]. **recoverable** [LNW+11]. **Recovering** [QBO+14, RCPZ19, SSS17, KMG+19].

recovery [CKS15, LMS11, LL10, MAEL19, PNY14, SV12, YZC15, ZYZL12]. **recursion** [LHY12]. **Recursive** [ZL17]. **Redirection** [LL10]. **redistributed** [LXCM11]. **reduce** [CYT16, EA14, PFO+19]. **reduced** [LGLL12, TSL+11]. **reduced-round** [LGLL12, TSL+11]. **Reducing** [SSMvD16, CWK+11, JRSN10]. **reduction** [MK16, MGM16, MCKA18, SRS15]. **redundant** [PGRQVV12]. **reengineering** [FGB+19]. **refactored** [CFRPC+18]. **Refactoring** [YM13, Al 12, AMdLM17, BDO11, BDD+15, KS19, MGM16, MSK+17, MCKA18, PCFRP19, SGMHJ13, SAN+17, TVMS18, TC10, TC11, VM13]. **refactorings** [CFM+16, FTSC12, dOFB+19]. **Reference** [ZMK12, AF16, GAKF13, KSKP11, NFSM11, PPG+13, WWLG13]. **refined** [EBC10]. **refinement** [APT+12, ILZ13, KHW19, TZ12]. **Refining** [SDG17]. **reflective** [LC11]. **register** [TXLC12]. **registration** [AAMS14]. **registries** [SBGT13]. **regression** [AAB19, HPH12, JK12, JKL19, LXG10, LQLW12, LNTS19, MA10, MN19, NHC13, RB16, SD16b, SSP17, TTC18, WXY+17, YLCZ12]. **regression-based** [TTC18]. **regulations** [HL11]. **regulatory** [MOH16]. **reinforcement** [FMPS16]. **rejuvenation** [ACW10, OD10, SW10, SPTM15]. **rekeying** [SA11]. **related** [CPD+18, JK12, LRB+19, MS16, SCL13, TLZ+16, WCC13, ZM18]. **relatedness** [LBX12]. **Relation** [CPX16, BCD+18, HSL14, vdRBSvV10]. **relational** [BGTC18, BL11, CDOP15, JK13, LKL+11, MLGA11, SZS13, VGM13]. **relations** [HN17, TSRC18]. **relationship** [BDD+15, CTKT13, FHL+15, IBAH12, OBS+18, VLL18, ZCC+19]. **relationships** [CHN19b, GD12, GMGTdFR14, JLZ+19, LLL17a, MER17, PPMM14, PSZ17, VAJ18, vAAJ16]. **Release** [DRCA+19, MXZ11, PS15, YLXZ16, ZP17]. **releases** [AT18]. **Relevance** [NAB+13, TTR+13, FMR11]. **relevant** [NBH19, TTC15]. **Reliability** [AT18, LWL+13, LGHR16, MBAG11, ZCC+17, AGC13, CL15, FHY17, HWLM11, KHSD10, KLB15, LZR16, LYC14, MAG12, MPRS14, PEO11, PB15, Pot13, RAS14, RSB+14, SD16a, VHL14, WZY+18, WFY+19, WRdMSN+13, YTW+13, YLXZ16, ZZP15, ZP17]. **Reliability-driven** [MBAG11]. **reliable** [DS16b, FYCL13, GGS+19, SJC13, ZYZL12]. **remedy** [WS13]. **reminder** [TBSvdW18]. **ReMinds** [VRG+16]. **remote** [HSL14, IB11, YSL+10]. **rendering** [KA14, SNDD19]. **Rendex** [AS17]. **reordering** [TXLC12]. **repackaging** [KTK19]. **repair** [JCK+17, MM19, MJ19, WMW+19, ZM18]. **Repeating** [SB17b]. **replacement** [BHVR18]. **replanning** [GRT13]. **replay** [WXZ+17]. **replica** [DHC+11]. **replicated** [EBC10, GV10, RZL+18, SHN14]. **Replication** [MJ18, ACB18, BDPRC18, BMB19, CdS18, HSC15, OCC12, Zha16]. **report** [SAH12, SAKZ15, WCC12, WKbOS17, WKV11, WB15]. **Reported** [ASMN15]. **reporting** [KP10, OKMD12]. **reports** [HCY19, LYLC16, ULS19]. **repositories** [LPM15, SAH12, SGMHJ13, TLA18]. **Repository** [BV18, CBC+15, RvDV17]. **repository-based** [CBC+15]. **representation** [SB17b, XLX+19]. **representative** [CSM15, LTK+15, OSH+18]. **representing** [SCS15, XLM+15]. **Reproducing** [HCY19]. **reputation** [KB16, TTC18]. **request** [CLL10, JLZ+19, JH10]. **requests** [CdCMdMSNdA16, DR12, HYA11, KK11, LHG+18, LMPM18]. **required** [ABL16, FSGYP17]. **Requirement** [MD16, PLGT10]. **Requirement-based** [PLGT10]. **Requirement-driven** [MD16].

Requirements [ABB15, AHBA19, CNMR18, LZLC17, WPL+18, AVGM19, AS17, AGR19, BKS15, CKL12, CRESF+13, CFA+19, DvdVA+13, Dan17, EGM+11, EUR+13, FSG+11, GSM15, GKV14, HBR19, HJP15, JC10, KMWL12, LKJR10a, LKJR10b, LHG+18, MPTT14, MVSG18, MFM10, MPLL+15, MIKG13, OK18, OWG19, PG12, PD16, PMB15, RDPM19, RO13a, RM19b, RHM+18, SCMS15, SA14, SJR+11, SPLW17, dSSVV11, SMK+18, SRBT18, TKP+18, UGFK15, VVA+15, VCMG17, WLD16, XYCL17, YFT+15, ZTCZ16, ZHGL11, dSdMSNO+14, DDMP14, FFWE17]. **Research** [ACS13, BKW10, Ano13a, AS16, BP13, BPSK18, CBT+14, DDMP14, DFG+13, JDLS16, KGB11, LCM+13, Man16, dONTF+19, RPT19, TTMI19, VHFST15, Wie14, KS19, VCB+18]. **researcher** [HCY19]. **ReSeer** [WXZ+17]. **Resemblance** [ZHH+17]. **reservation** [ZWC+19]. **reside** [GXZ+19]. **residence** [GXZ+19]. **resilience** [PDL+16]. **resilient** [KPS10, MMSD13, YKC+12, YLZ+16]. **resistant** [HCC10b]. **resolution** [DBCdP11, DK15a, KHC16]. **resolving** [MKS+18]. **Resource** [AD14, CDPM17, KK11, ACRD19, AK15, BV15, BK17, CLY17, CYT16, DM17b, ES14, GGS+19, GGB19, GHBD+16, GWW+11, HNH15, HLW+15, HLWS13, MCC+18, MAS13, NEM17, NK15, SWES16, TY18, THWC10, WDC12, WAWO12, ZWC+19, fLSN18, vV10]. **resource-restricted** [NEM17]. **resources** [AHW10, JSL16, MSAH16, SCO13, Sko14]. **response** [EGG+11, MMTS15]. **response-time** [EGG+11, MMTS15]. **responsibility** [KP10, MJ14]. **REST** [AK15, CPDM16]. **restricted** [NEM17]. **Results** [JKC19, LL15, MRT17, APT+12, BPSK18, JDLS16, LGLL12, TGE17]. **retargeted** [CWK+11]. **Retest** [LNTS19]. **retrieval** [GPL+15, KCV+19, MCC11, nQYD11, ST13]. **Retrospective** [Gar13]. **retrospectives** [LMIV15]. **Reusability** [PAB+17, AKKS11, GMGTdFR14, PDS19, SOS+18]. **Reusable** [RBT11, KTT+17, LMN10, NOPF12, SSSA17, SGC+17, SHS16]. **Reuse** [SS17, dAK18, BKS15, BV16, EL10, ESRF19, ICSK14, KCAS13, LOFA17, MB17, OAC11, PDS19, PK10b]. **ReuseTool** [OAC11]. **Reusing** [FB18, SJ17, MAH18, MSGM17, SBB+16]. **Revealing** [GGM11]. **revenue** [Oja16a]. **Reverse** [MAGC+17, SSSA17, BCR+19, LHLG+15]. **Reversible** [CSS+13, FF12, OLZN13, AMK12, CNL13, CT11a, HC10, HTH13, JK13, LCT10, LCLF13, LBCL10, Lin12b, Lin16, LTW16, MM14, PWLL13, TK14, WYCC13, WLC13b, WOLS12, YWHL11, YCLY13]. **Reversibly** [MKH+12]. **Review** [CVGP13, GCAH18, SKT17, UB19, AAGT16, AKAA18, AVGM19, APW14, ALRP16, BWP16, BKS15, BMB18, CFL+18, CP15, DPL16, DBCG14, GJ16, GNA17, GA11, IHA16, JED18, KGB11, KNA11, LFW15, LL15, LZO+13, MWM12, MH13, MRT17, MGAN18, OGRJ+18, ÖT18, PG12, PFG13, PMB15, PFO+19, RAK15, RCL14, RSBA19, SNL16, SRJL+18, STA19, SLB14, TJT+18, TTM13, TL14, TPKT12, TCS18, VLC+17, VCMG17, WPL+18, WLL17, ZADA15, Zha16]. **Reviewers** [vV10]. **Reviewing** [AHOP14]. **reviews** [AS17, GNA17, PLVB+18]. **revisited** [HYWS11]. **Revisiting** [LRB+19, Man16]. **reward** [TKJL13]. **reward-based** [TKJL13]. **rewriting** [GLWY10]. **REX** [CM12]. **RFID** [Aba13, AYZI10, CPS11, KSKP11, SLLL12, WL17]. **RFM** [HHK13]. **RGB** [SNM14]. **RIA** [CRESF+13]. **RIAs** [CRESF+13]. **rich** [BCF18]. **rich-client** [BCF18]. **riddle** [KFLS18]. **ridge** [LXG10].

right [BDDS11, FGMM17]. **rights** [KLP10]. **RISC** [LKP13]. **risk** [AV12, AD14, BP13, BRS10, CMM15, CLF+13, GKS18, HFE10, Kel15, PvV12, RO13a, WZY+18, YFT+15]. **risk-** [PvV12]. **risk-averse** [Kel15]. **risk-based** [YFT+15]. **risk-driven** [GKS18]. **risks** [AB10, SL10]. **RO** [Jua10]. **road** [DII+17]. **Roadmap** [BD10, FS17, ME10, SST16, WB10]. **roadmapping** [SSAS11]. **roads** [MT13]. **ROAR** [SWES16]. **RoboCup** [KHMF13]. **robot** [CCG+10, DYC19, MOD+19, ESRF19]. **Robotic** [MOD+19, AB16, BDM+19]. **robots** [YSDT11]. **Robust** [BSKL10, DS16b, LSR13, TK14, TTL10, AMP12, ATvHJ18, CCG+18, KLP10, LWZ12, LLML13, PS15, PKS18, yWpNyL11, yWpWyYpN13, YSL+10]. **Robustness** [XYZ+19, MFMCY12, SM16]. **role** [Bis13, Dan17, FBB15, FM11, KP10, KKL+11, LHCT19, MRM16, SA12, SKK+18b]. **role-based** [FBB15, KKL+11]. **role-playing** [Dan17]. **roles** [JMML17, MNS13, MPS+12, WLL17]. **Rolling** [HZG+12]. **Rolling-horizon** [HZG+12]. **ROS** [DYC19]. **rostering** [PPN+15]. **rough** [Wu11]. **round** [LGLL12, TSLL11, TSL+11]. **routed** [MV10, MV11]. **ROUTER** [GGB19]. **routing** [BCLW11, CSW10, CWK10, CW12, DBCdP11, JXLC15, MDO+10, MT10, NNVD17, Pal12, YH19]. **RSA** [BBBP13, CWK+13, KKHH11, ZM12]. **RSA-based** [ZM12]. **RSU** [ACL13, ACSC16]. **Rule** [VKL16, NBR+13, PWA+19, QLBS17, ROFGFRM13]. **Rule-** [VKL16]. **rule-based** [ROFGFRM13]. **rules** [CCdR+16, PS14, SDB18, TLGE18]. **Run** [SHBA+16, fLSN18]. **Run-based** [SHBA+16]. **running** [Li11]. **runs** [LZY+15]. **Runtime** [KGG18, ASV+16, ADET12, LRO19, NTT19, OM13, PJT+17, QOLJG16, RGV+17, SB17a, SHC+11, VRG+16, WLL19a, WLL19b, YGN+16, dRSBA13]. **Rust** [KTK19]. **Rust/Node.js/WebAssembly** [KTK19].

S [ÇT13]. **S-CoM** [LJDK10]. **S-IDE** [ÇT13]. **SAAD** [PÁC13]. **SaaS** [HS15, MVLJ18, Wu11]. **Sacbe** [GCSSDP+18]. **Safe** [BDLM16, NBA+15, TBG13, AAB19, BAAD17, LJDK10, SBT19]. **Safety** [BDM+19, KHC16, LKJR10a, LKJR10b, RO13a, SGC+17, VCMG17, WGKW19]. **Sakai** [LWZ12]. **SALSA** [BVV+10]. **SAM** [HCB+16]. **same** [CPZF19]. **samples** [RHRC15]. **Sampling** [QXYL16]. **Sampling-based** [QXYL16]. **SAN** [SSF15]. **SAND** [LLH+16]. **satisfaction** [EK12, PRS11, VLL18, vdRBSvV10]. **saving** [CWK10, LZC14, YZG+13]. **SBSE** [HC15, PMB15]. **SBVR** [SDB18]. **scalability** [PHBJ16, YC11]. **Scalable** [CCH14, FS19, JPGdL17, LKL+11, LQC+14, Luk11, MSAH16, ND18, DK15b, FTC16, KLL+11, PN14, PPMM17, SST16, YC11, CSS10]. **scale** [APS16, BLL+18, ÇB16, CSM15, DvdVA+13, DPL16, EH19, JSM10, JK12, KLL+11, LTK+15, LLL+14, nPHW+16, PFG13, PTF+15, SAH12, Shi17, SXYW14, SVM19, SAN+17, TPTV17, TTMI19, WFF18, WB15, XWZC14, YAY13, ZK13]. **scale-free** [YAY13]. **scaled** [KCR16, LWOY16, TS19]. **scaled-out** [KCR16]. **Scaling** [KGW12, AR17, CS12, DVV+16, KAS18, LCL15, TSCB19, Wie14]. **scan** [KPS10]. **ScapeGoat** [GHBD+16]. **SCC** [KMK17]. **scenario** [DK15b, HRD10, SCMS15]. **scenario-based** [SCMS15]. **scenarios** [BRS10, JS13, KCV11, MSHG18, SSF15, dMCR19]. **Scented** [GPD+19]. **schedulability** [BL19, FBD+18, Kim17, LS14]. **scheduler** [AR18, FSPH+16]. **schedulers**

[HN17, LFCL12]. **Scheduling** [LZL+15, LZY+15, SKT17, SK10, ZLD13, ABB19, ALRP16, BLS18, BJK+11, CSMC19, CLL10, CZG+15, CYT16, CKC15, CBL+15, DVV+16, DR12, DFJ19, FHL+15, FHY17, FGBC10, GBC16, HyLW+12, HZG+12, HYA11, HH17, KC16, KSN17, Kim17, KCV11, LESL11, LS14, LCLS16, LS17b, LWC+18, LJM11, MMZ+16, MCKA18, MK15b, PK10a, RFM10, RXY+19, RSBA19, ROFGFRM13, SRS15, SBZ+17, SLW+15, TKJL13, TKJ15, TdCAF16, TC16b, WWL+10, WMWZ12, WX10, WC11, WCB+17, wZfG13, wZfG14a, wZfG14b, ZW15, ZCC+17, ZHGL11, ZGSH13, dOCS13]. **schema** [KSKP11, NTRN11]. **schemas** [OT17]. **scheme** [BMS11, BCL+18, CBS16, CCLL11, CNL13, CH10a, CT11a, CW14, FWCS12, GJ13, HSPD14, HWL13b, HCC10b, IB11, KKLB11, LC10, LSR13, LHZX12, LH11b, Lin12b, LWC13, LCC+13, LWL+16, LJM11, LW13a, LTW16, LY18, MKS+18, MIUM12, NNVD17, Pen11, RPSL10, Shi10, SGBCP12, SV12, SXYM11, TK14, TLL13, TLL12, UUN11, VHL14, WWYZ11, yWpNyL11, WLH13, WYCC13, WCC+14, WZ11, WKH11, WOLS12, WS13, WOC15, YWTW11, YC11, YCC16, ZM12, ZADM10]. **schemes** [AQK11, DDD14, DR12, LWC+18, LHYZ12, OD10, PCHW12, WMWZ12, YZG+13, ZT14]. **Scholar** [Won10]. **scholars** [CLL14, KLA+19, WTG+11]. **science** [HG18]. **Scientific** [Kel15, ALRP16, DFJ19, GE15a, LNW+11, Rya13, SZS13, ZLD13]. **scientists** [HG18]. **SCOOP** [MNM12]. **Scope** [MB17, AKL14]. **Scope-aided** [MB17]. **scopes** [CHL+19]. **scoping** [DFG+13, dSdMSNO+14]. **Score** [GCSÁddP11]. **scores** [SA18]. **screen** [CTL12, EAH+11]. **Scrum** [RKK16, vWSB13, PPG+10, SRSC16, SBAH17, VvSvV16]. **SCRUMIA** [vWSB13]. **SDH** [GMS11]. **SDN** [MCC+18]. **SE** [IZ18]. **Search** [AWSE19, CVGP13, KOL+14, APT+12, BL11, CCY11, ECRVMS11, GZS+18, HNH15, HG18, JC15, JRSN10, KAU16, LM15, LHLG+15, MFTP18, MCV16, MGM16, MSGM17, ND18, PMDH13, PWA+19, RRV19, RSBA19, SS15, SED16, WHY+12, WAG15, WXZ+17, ZGL+10, HLS+13, HC15]. **Search-based** [AWSE19, KOL+14, HNH15, LHLG+15, MFTP18, RRV19, RSBA19, WXZ+17]. **search-centric** [CCY11]. **search-order-coding** [PMDH13]. **searchable** [KTT+17, RPSL10]. **searching** [TBC+16, ZXG10]. **Secret** [EA11, WS13, CT11b, CLH+13, CW14, EEAZ13, GLW13, HHH10b, LT13, LyWSZ10, LHYZ12, MBB11, UUN11, UUN13, WZ11, WS12, WOLS12, YWEL+13, YC11, YCC16]. **Section** [BKW10, BFLZ13, SLR16]. **Secure** [GZS+18, LH11b, ABFM12, CDA11, CCLL11, CW14, CH10b, CL13, EZOK14, GKD13, GRBNA10, IB11, KKHH11, LH11a, LSR13, PSdO+13, RG10, RITF+11, SM17a, SC14, SXYM11, SS13, TLL12, THS12, WLL+13, YC12, ZG10, ZZ12]. **securely** [SYT+17]. **SecureSMS** [SC14]. **Securing** [CPL13, OM13, PDK+16]. **Security** [CDS10, HRB12, AMKD13, ANG+19, BP13, BSG+18, BL11, DAR14, GMS11, HFE10, KOS15, LDS+19, MIKG13, OLV15, OKMD12, PPS12, PCCB+11, RO13a, RPSL10, Rya13, SZ11, SLZ12, UUN11, WV11, YFT+15, YKC+12]. **SEED** [KKP12]. **Seeing** [GW10]. **segmentation** [HHC12, KSRD10, ST11]. **Segmenting** [AHLH16, KSRD10]. **Selected** [LH12, Bor12]. **Selecting** [RSB+14, LMPM18]. **Selection** [AHC+11, Jør10, AM10a, BWW+18, CPR13, EFSJM17, GPMI13, GWW+11, HJ12, JS11, JKL19, KNA11, LQLW12, LTK+15, LWZ+16, LNTS19, MK15a, MB17, MIKG13, MAAC17, NCW+19, OZO+14, PB15,

PMB15, RAK15, SSP17, TCK14, TC16a, WQJZ10, WGC+14, WCX15, WXY+17, WH15, XLL+19, Zha12b, MGM10]. **selective** [LW13c]. **Self** [ABB15, BJG11, BBD18, BM17, CHLW17, EK12, GBH+16, HWR17, JS16, PCYZ12, SRT+12, ARS17, BSK+18, CCdL+16, CV16a, CPYZ14, CG12, DWC17, FCB+16, GSP+19, HGP+12, HM16, KKG+12, LT13, LZR16, MKS+18, MCS+12, MAS13, PCHW12, PPMM12, PDL+16, QXYL16, SB17a, SSK19, SGEK19, TJT+18, WMAS12, YXP+18, CV14]. **Self-adaptation** [BBD18, GBH+16, JS16, CCdL+16, CG12, FCB+16, GSP+19]. **Self-adapting** [BJG11, HGP+12]. **Self-Adaptive** [ABB15, CHLW17, HWR17, ARS17, BSK+18, KKG+12, LZR16, PPMM12, QXYL16, SB17a, TJT+18, WMAS12, YXP+18]. **Self-Adjusting** [CV14]. **self-admitted** [MKS+18, SSK19]. **self-authentication** [LT13]. **self-aware** [SGEK19]. **self-configuration** [MAS13]. **Self-control** [EK12]. **self-correcting** [CV16a]. **self-managing** [PCHW12]. **self-optimization** [CPYZ14]. **Self-organizing** [BM17, HM16]. **self-reconfiguration** [PDL+16]. **Self-tuning** [PCYZ12, SRT+12, DWC17]. **selfish** [GAT15]. **SelfMotion** [CGPT14]. **Semantic** [DH13, MJF10, RvDV17, XLM+15, BDO11, BKSM13, BKSM14, GMLSF+15, GPL+15, KKLC12, LPM15, LBX12, MTF14, RHRC13, ST13, TJH15, EZRK16, KM17, KR14, TTM13, VGM13, ZLT10]. **semantic-based** [GPL+15]. **semantic-preserving** [BKSM13, BKSM14]. **semantic-web** [RHRC13]. **semantically** [CdR+14]. **Semantics** [MOD+19, BCF18, Cic16, GKV14, LLLK12, SK18, YBE17, Zha16]. **Semantics-based** [MOD+19]. **Semi** [HZ15, BSG+18, CdCMdMSNdA16, GGvH+18, KBHG17, OGRJ+18, PPS12, SPLW17, XB19a]. **semi-automated** [BSG+18, CdCMdMSNdA16, SPLW17]. **Semi-automatic** [HZ15, GGvH+18, KBHG17, OGRJ+18, PPS12]. **semi-partitioned** [XB19a]. **semiconductor** [AT18]. **senior** [CC11]. **sense** [OFR+12, RMD11]. **sense-and-react** [RMD11]. **sensing** [CMK+11, CRKH11, Chr16, FF12, HSL14]. **sensitive** [FSGL12, SG16, WQJZ10, Zha12a]. **sensitivity** [LWW+10, LTW16]. **Sensor** [DFCPSF15, AN10, Bar15, BRG+12, BK11, CBS16, CLY14, CLF+13, DBCdP11, HWHT11, HSS10, LCC10, LT11, LLK11, LWOY16, LWL+16, LWC+18, LHP+09, LHP+10, MLLK11, MC10, MT10, MKRO14, NSAK10, NNVD17, SMS11, SGBCP12, TAF+17, YH19, CDRT13]. **sensor-based** [CLF+13]. **Sentiment** [ULS19, IZ18, JR15]. **SentiStrength** [IZ18]. **SentiStrength-SE** [IZ18]. **separate** [ADTZ12]. **SEProf** [TC12]. **Sequence** [ZLG10, CJ13, CZC+18, HHK13, WLC13a, WGZ+12]. **sequences** [LK13, MJZ+10, Pra18, YZY+18, ZJC+10]. **sequential** [HWL13a, HHK13, LAH+16, SJC13]. **series** [AGC13, LNY+11, SB17b, SKF17]. **serious** [GSM15]. **server** [BLM10, hChSyCwL10, EBJ17, HCY19, HWLM11, MAS13, SLLY17, THWC10, TC16b, TLL12]. **Service** [AM15, CNG16, CBC+15, EMSU11, HBG+14, HS15, AJG+15, AKAA18, APM+14, AM10a, AK15, BBD18, BMLL14, BMKM15, BZ14, BDBLP15, BVV+10, CFN10, CDPM17, CGPT14, DVV+16, DS16a, DYC19, DLW+13, FYCL13, FSG+11, GS17, GCLD13, GMMC13, HBG+13, HWLM11, IYS13, JLQ+10, KMK17, LMN10, LPM15, LQLW12, LLZW14, LLWL14, LDZL15, LVPMPCLS13, LY18, LZG15, LGZ+18, MS17b, MSL12, OLV15, OCC12, PSS11, Pot13, RAS14, RBW18, SW10, SBGT13, aSRS+10, TG17, TSCB19, WVT+14,

WCX15, WXY+17, WNC17, WBBK18, WWY+12, WZJI14, XYCL17, YMM+17, YMM+19, ZTCZ16, ZWM+18, ZHGL11, ZHAY12, dVRB13, BBEM11, LWSH19, MPRS14, OLV15, WVT+14, YDGB+12]. **service-based** [CFN10, LMN10, aSRS+10, WWY+12]. **Service-oriented** [AM15, CGPT14, GMMC13, JLQ+10, Pot13, WXY+17, dVRB13]. **services** [AM10a, CCH14, CH10b, GFP11, GPSS+13, KTT+17, LRO19, LKL+11, LZO+13, LLX+11, MGB16, MCTM11, Oja16b, PWS+15, PCG+14, PHBJ16, RHL+17, SFMB16, SKK+18a, SCO13, SKF17, TTM13, TTC18, VPL+10, Wau19, XPBC11, YDGB+12, YAT11, ZMK12]. **session** [SHBC19]. **set** [DW11, LWL+13, VvSvV16, Wu11]. **sets** [TXCX19]. **Setting** [NI13]. **SETZ** [TTL+13]. **several** [ZT14]. **severity** [SA18, ZCY+16]. **SF-PMIPv6** [CL13]. **SGEESS** [LZL+15]. **Shades** [JBSL12]. **Shamir** [UUN11]. **Shannon** [AMS+10]. **Shape** [RITF+11]. **share** [HH17, LMWM18]. **shared** [AHW10, SBZ+17, Xia13, YYS+16]. **shared-resources** [AHW10]. **Sharetouch** [TCCH12]. **sharing** [CT11b, Che13, CLH+13, CW14, EA11, GGK19, GLW13, HHH10b, LT13, LJA+11, LyWSZ10, LHYZ12, MQG+17, TNK+19, UUN11, UUN13, WKH11, WS12, WOLS12, WS13, YWEL+13, YC11, YCC16, ZXG10]. **shelf** [AHC+11]. **shifting** [CSS+13, HC10, HTH13, WLC13b]. **short** [LHZX12, San16, THS12]. **Shorter** [PPB16, LMT16]. **should** [FFdRG+14, JLZ+19, KM13, ZZ16]. **showcase** [CMK+11]. **SHT** [PDBD18]. **shuffling** [Pen11]. **Side** [KKP12, ZGZ+13]. **side-channel** [ZGZ+13]. **Signal** [CWK10, RITF+11, RA16]. **signature** [BMS11, FWCS12, HYWS11, LHZX12, Shi10, SV12, SLLL12, SXYM11, YKC+12, ZM12]. **signature-based** [SLLL12]. **signatures** [GMS11, PPB16, THS12, YZC15]. **signcryption** [HS11b]. **significant** [MSGM17, Wu11]. **Signs** [vV13]. **silver** [SBAH17]. **Sim** [SSP+15]. **SimFuzz** [ZLL+12]. **similar** [ASMM18]. **similarities** [JLZ+19]. **Similarity** [MG11, DII+17, LBX12, LQC+14, MER17, PXT+13, ZLL+12]. **simple** [MT10]. **simplex** [PS14]. **Simplification** [OT17, CL17a]. **simulated** [CNM18, MK15b]. **Simulation** [HWLM11, APW14, AWSE19, ÇT13, CXO+15, CHL+13, KSN17, PB11, SCGL+18, SMS11, SLW+15, Uzz13, VKL16]. **Simulation-based** [HWLM11, AWSE19]. **simulations** [DPP+18]. **simulators** [dOCS13]. **Simulink** [HBT16]. **Simultaneous** [AZvG11]. **since** [GPD+19]. **single** [ÁRMC16, URG10]. **singular** [XWZC14]. **sink** [CBS16]. **SIP** [hChSyCwL10, GFP11, HBG+14]. **SIP-based** [GFP11, HBG+14]. **Sirius** [TPGdS13]. **SIT** [QXYL16]. **sites** [CdR+14, FG15]. **situational** [LK16]. **situations** [HCL+10]. **six** [MVSG18]. **size** [ASMN15, DW11, RSGH12, SHBC19, WL10]. **sized** [dSdMSNO+14]. **Skyline** [ILZ14, JHYK10, YZL+14]. **SLA** [WZJI14]. **SLA-aware** [WZJI14]. **Slantlet** [TK14]. **Slice** [MLD+14]. **Slice-based** [MLD+14]. **slices** [JJC+14]. **slicing** [PB11, QBO+14, aSRZ+18, YBE17, ZS16]. **sliding** [DS12, NDS13]. **slot** [SRS15]. **slowly** [FS14a]. **SMACK** [TDW+14]. **small** [AT18, BdMSNO+17, DY15, HBOS13, Jør14, PPG+10, VA17, dSdMSNO+14]. **small-to-medium** [VA17]. **smart** [AMCC14, AKA+15, CFL+18, GGB19, HCC10b, KKP12, PBM19, Sko14, YSL+10, GSN+15, HWdS+15, LZL+15, PCG+14]. **SMCD** [EA14]. **smear** [HHC12]. **smell** [SRJL+18]. **Smells**

[GK18, FLRT19, GPD+19, KHW19, OKS+15, SS18, WFF18, YC13, FFWE17]. **SMEs** [CO12]. **smooth** [GRT13, YC11]. **smoothing** [WQJZ10]. **smoothness** [LBCL10]. **SMS** [PSdO+13, SC14]. **SMSCrypto** [PSdO+13]. **snowballing** [DVPY+19]. **SOA** [PZ15]. **SoC** [CTL10]. **Social** [AZX14, BV18, GMGTdFR14, Woh16, AGBD14, CdR+14, ECRVMS11, HY11, JLY14, KAU16, KB16, LS17a, PSM12, RNC14, Sko14, SZS13, SHH+15, TCCH12, TPTV17, WSM15, dVRB13, Cha17]. **socially** [MPS+12]. **Society** [BEZ14, PMMM11]. **socio** [ZCC+19]. **socio-technical** [ZCC+19]. **sociotechnical** [BPB19]. **Soft** [HJP15, CF12, LSE12, WX10, ZW15]. **SoftProcessors** [WLZ+17a]. **Softw** [AAH12b, WZM12a, XTZX13, wZfG14a, YWEL+13]. **Softw.** [BKSM14]. **Software** [AAGT16, AB16, AS10, AK16, AC16, APS+10, BWP16, BGS+16, BCEF10, BEZ14, BPQP+10, BdMSNO+17, BBND+18, BMB19, BD10, Bor12, Bos12, BCL12, CBT+14, CFL19, CS19, CC11, CA14, CVGP13, EB14a, ESWA18, Gar13, GMLSF+15, HLS+13, HC15, HST16, HG18, JED18, KM17, KR14, KT16, KM13, KJ10, LH12, LLM+17, LKJR10a, LCCJ10, LGH+17, LHP+10, LN13, ML18, MH13, MSS18, ME10, PW10, PMB15, RTM19, RSBA19, SPTM15, dAGSdFS+15, SS17, SCL13, SKRB19, Sta10, SSAS11, TL14, TGBF17, UD10, VLL18, VZT17, VCB+18, WL15a, WTG+15, WLL19a, WL10, Woh16, WCTK12, dSdMSNO+14, dAK18, ASGJ13, AJLS10, AZvG11, AT18, AC19, AKH12, ADCO18, AC17, ACB18, ASG17, AAH12a, ACG+15, AVGM19, ATvHJ18, AMKD13, AM18, ARS10, APW14, APS16, AKL14, ASMM18, AGC13, AKKS11]. **software** [ABC+13, AdB17, AB10, ABL15, AAA11, APCS10, ACW10, AS16, AHC+11, ANC11, BP13, BCBZ14, BWW+18, BMA+13, BM18, BKS15, BCFP19, BCR+19, BV16, BKH10, BFLZ13, BCL+18, BZ14, BLTY18, BGG10, Bis13, BDV17, BRS+18, BBS10, BDM+19, BS15, BK11, CX10, ÇB16, CCdL+16, CGS19, CJT+16, CCM12, CdS18, CFMRL11, CdCAdO18, CdSdSG+18, CdCMdMSNdA16, CBAV16, CKCK15, CLR18, CCG+10, CHLW17, CSN+17, CZC+18, CD10, CL15, CL17b, CLL14, CNSG12, CMR19, CO12, CBVF19, CKS15, CSM15, CPR13, CPRT16, CPV+14, CNMR18, CFA+19, CCMOM19, DC17, DGRN10, DWC17, DNBM12, DCT17, DGCA17, DCP12, DLW+13, DFG+13, DNSH13, Dut15, ESM+19b, EbAT13, ETM10, EB14b, EBC10, EZRK16, EK13, FHL+18, FKA16, FM11, FOR19, FP19, FBB+12, FFV19, FS17, FFdRG+14, FMRM15, FRGC10, FCB+16, FCRF16]. **software** [GAMW14, GL14, GMMGP15, GPP+17, GV10, GZ13, GCBCD15, GCDY16, GK18, GGT+19, GJ16, GGC16, GBH+16, GD12, GC13, GHBD+16, dGFDL16, GTA14, GFWA18, GA13, DDF+13, GMMC13, GWW+11, GW10, HBP+17, HNZ17, HJN11, Han12, HTB12, HBR19, HS11a, HJP15, HPF16, HLLS13, HKS+17, HBOS13, HSM16, IF19, IAA16, IZ18, IF10, JLGM17, JS11, JBSL12, JG14, JCYT16, JSM10, JS13, JK12, Jør14, JDLS16, Jør16, JST10, JKL19, JR15, JC10, KCAS13, KRD16, KCT12, KTF15, KKT17, KLA+19, KGB11, KFN19, KS19, KGW12, Kel15, KNA11, KSIZ19, KLB15, KT12, Kit10, KK17b, KSH+12, KM14, KAM13, KTF+16, KR16, KS16, LWB+13, LCM+13, LMIV15, LWSH19, LFW15, LXG10, LAT10, LG15, LJA+11, LSD+16, LCJ10, LLL17a, LSLG17, LMS12, LJ16, LMA15, LMNA17]. **software** [LLS11, LZR16, LYC14, MSB18, MBF12, MWM12, MdOBW+15, MNS13, MEB+10, Man16, MAH18, MCHJ17, MFTP18, MCV16, MRT17, MFMCY12, MDBC17, MVSG18, MACB19, MS17a, MGAN18, Mer13, MT13,

MB17, MA10, MPAA15, MdFD+15, MGvFGCB10, MD16, MSK+17, MSSMDC12, MA17, MKHLB16, NCK+15, NMM13, NHC13, dONTF+19, NBA+15, NCW+19, NKZ17, NSM17, NBM19, Oja16a, OD10, OY16, OB13, OCC13, ÖT18, PEO11, PDS19, PB11, PB15, PAB+17, PLHP+15, PCHW12, PH13, PCYZ12, PPMM14, PFG13, PPG+10, PRN17, PSZ17, PCCK18, PDL+16, PFL16, QGZ+15, ROR11, RBT11, RF18, RRV19, RSB+14, RSB+16, RPT19, RCCVB11, RSGH12, RHL+17, RF14, SOS+18, SW19, SD16a, SB17a, SGP12, SBT19, SNL16, San16, STA19, SAR15, SA12, SSMvD16, SCwY12, SLB14, SAH12, SS18, SSSA17, SSS17].
software [SXYW14, dMSSS+13, SWA+13, SLR16, dSSVV11, SGMHJ13, SBDB19, Som13, SHC+11, SZW+16, SdSGdMSN+13, SA18, SG12, SB14, SNDC13, SM16, SHHL12, SHGT16, SJH+10, TBSvdW18, TJH15, TBG13, TTR+13, TR18, TKP+18, TKCR14, TGE17, TC12, TCS18, TTMI19, URG10, UGFK15, Uzz13, VCdA+16, VA17, VAJ18, VLC+17, VVA+15, VBC+14, VHFST15, VHFF+17, WCC12, WWSZ15, WKbOS17, WB12, WMC17, WGS+14, WWSS13, WRR14, WRdMSN+13, WSM15, WTG+11, WLL17, WAWO12, XLW18, XYCL17, XB19b, XLX+19, YMM+17, YMM+19, YFZ+16, YLXZ16, YLA16b, YLA16a, YCA17, YAKK16, YHMS16, YLCZ12, ZÁ15, ZADA15, ZML10, ZLC+14, ZCY+16, ZZC18, ZWF+18, ZFY+19, ZGYS+15, ZZP15, ZP17, dSF12, dL13, dOSdAdSG17, dRSBA13, dSB12, fLSN18, vVT16, CCCY17, IBAH12, JWT17, LMWM18, MP12, MMB10, NFSM11, Shi12, TTT14, VPMVM+13, WVT+14, WB10, Ano19l].
software-as-a-service [BZ14, WVT+14].
software-intensive [AAA11, FOR19, GBH+16, MAH18, dSSVV11, YMM+17, YMM+19].
software-producing [BV16].
solid [nWsCqW12].
Solidifying [VPMVM+13].
solution [GGS+19, HHH+10a, LQLC16, PPN+15, TBC+16, nWsCqW12, XJZ+15].
solutions [FCMJ12, FCRF16, KSKP11, MSS18, MAEL19, Rya13].
solve [DRCA+19].
solver [EK12].
solving [ADTZ12, ACH19, BRS+18, EMBS17, KK17b].
some [HHKWB16, MNO18].
Sonata [GBDCR12].
sound [LSR13].
Source [LMWM18, MP12, NVPGMPSM17, OHL17, Shi12, ACB18, BCG+14, CAHV15, CHL+19, DFCPSF15, ESM19a, EAH+11, GPPT16, GW10, HNZ17, HBR19, IKBH14, KTF15, KKT17, KR14, KHMA12, KKA+19, KK17b, LAT10, LWZ+16, LWZ12, LRD+19, PAB+17, RA16, RNR17, SG12, VGSN18, WFF18, YLXZ16, ZFY+19, CFMRL11, GL14, LLS11].
Sources [HSS14, CDOP15, LWZ+16, NTRN11].
space [BAI+14, DGRN10, MM19, PWC12, RKK16, VVA+15, Xia13, vHJPB+17].
spaces [CGS19, GBDCR12, PN14].
Spam [PÁC13, ROFGFRM13].
SPAPE [BKSM14, BKSM13].
spark [MPN+17, MK17].
spark-based [MPN+17].
sparse [vV10].
spatial [HSL14, MLGA11, MC10, RVCM17, YWWS10].
spatio [Lin12a].
spatio-temporal [Lin12a].
SPDX [KKT17].
Special [AC19, ADMOK+10, BCEF10, BEZ14, BFLZ13, Bor12, BKW10, CCCY17, CLR18, CA14, CL11, Dut15, GP10a, LH12, MACB19, MS17a, OPS11, TZB19, VZT17, WB19, Won10, WCTK12, YAT11, Al 12, BCG+13, CCM12, CdS18, DIB14, FKA16, FOR19, GBG10, JWT17, ML18, MJ19, NBM19, PBM19, PS16, SLR16, WMAS12, WMC17, WC16, XST18, ZTPT18, dAK18, SS17].
specialization [LMGHB17].
Specific [KVH12, ACG+15, AMCC14, ARS17, EMBS17, HAE+15, HGMB13, KMK16, PC10, SKL10, SHS16, VPdP13].
Specification [WWY+12, BZ10, CF13, DBZ16, KU10, LKR13, MVSG18, MA11,

SGK12, SdSGdMSN+13, TFS10]. **specifications** [GA13, SAMN12]. **specificity** [IZ18]. **specified** [PRN17]. **Specifying** [ZYA+18, MGR+13]. **spectrum** [AMAY19, CCWT13, JJC+14, MMSD13, TXCX19, XYZ+19, ZYZ+17]. **spectrum-based** [XYZ+19, ZYZ+17]. **speed** [XZP+10]. **speeding** [dNPM18]. **SPI** [PW10, CO12, WR10]. **SPI-LEAM** [PW10]. **SPIN** [ASdMGM14]. **spirited** [HL10]. **SPLC** [GP10a]. **split** [HCB+16]. **split-and-merge** [HCB+16]. **splitting** [LWOY16]. **sporadic** [wZfG13, wZfG14a, wZfG14b]. **Spot** [LZO+16, WMOKY11]. **spots** [WLZ+17a]. **Spotting** [GHBD+16]. **sprays** [HHH+10a]. **spread** [MMSD13]. **spreading** [HLWS13]. **spreadsheet** [CFM+16, JSHW14, KHW19, ZXC+17]. **spreadsheets** [LT13]. **sprint** [GRT13, LHCT19]. **SQL** [FGB+19, GLOM19]. **SQLIA** [Aba13]. **squaring** [LKP13]. **Stability** [MGvFGCB10, SB17a]. **stack** [GXZ+19, ZFY+19, CCD19]. **stage** [XLL+19]. **stages** [MAAC17]. **Stakeholder** [Hoo14, PG12, vdRBSvV10]. **stand** [SSD16]. **stand-up** [SSD16]. **standard** [MG11, SXYM11, WZM12a, WZM12b, YC12]. **standardized** [GS17]. **Star** [BV18, MTF14]. **Starring** [BV18]. **start** [FHL+18, SAR15]. **start-up** [FHL+18]. **started** [AS10]. **startup** [BBND+18]. **Startups** [ESWA18, TKP+18]. **starvation** [SMZC12]. **State** [GAMW14, LDS+19, MDP+11, PMR16, YHM+14, ACS13, ABL15, DCG16, EFSJM17, MRY17, dONTF+19, PDBD18, TJT+18, nWsCqW12, WMAS12, Zha16, KMWL12]. **State-of-the-art** [PMR16, TJT+18]. **statecharts** [SÁMI17]. **Stateless** [CL18]. **statements** [SKK+18b]. **Static** [ABS19, OMLB16, SLL+15, ANG+19, BSB12, FP18, PDS19, SNDD19, WMWZ12, YLC18, ZS16]. **statically** [QOLJG16]. **stationary** [MKRO14, MJZ+10, ZL17]. **statistical** [FP18, KSN17, LNY+11, Luk11, MLD+14, dONTF+19, XYCL17, ZCT+11]. **statistically** [YAKK16]. **Status** [FGD+17, LZHS11, GBCI11, PMMM11]. **steganographic** [LLC10]. **steganography** [EEAZ13, LyWSZ10, LWW+10, SI12, WKH11, WOLS12]. **step** [SH17, YCF+13]. **steps** [dONTF+19]. **Stepwise** [SPSR17, SSP17]. **stereo** [CJ13]. **stereotypes** [SSMvD16]. **Stitch** [CG12]. **Stochastic** [BT17, ZW15, AC16, BHM12, CCG+18, FCB+16, OH15, PACH15]. **Storage** [LLGZ13, BT17, FNWL18, GCSSDP+18, GPSS+13, KKLB11, LMT16, LZC14, Luk11, MCC11, OSH+18, WCB+17, YTW+13, YYS+16, NC10]. **store** [DII+17, GNA17, KCR16, MQG+17, Shi17]. **stories** [MH12]. **strategic** [Uzz13, VLC+17, Wau19]. **Strategies** [VAJ18, CNL13, CXO+15, GQ12, HS15, Jør10, KA17, MVLJ18, NSM17, Oja16a, RB16, ROFGFRM13, SD16b, YWHL11]. **strategy** [AZ11, HSC15, KHMF13, LWL+13, LNY+11, LZC14, LYC14, MLHL12, SRS15, WGC+14, WC11, LZL+15]. **stream** [APS16, DM17a, HWR17, LW13a, MRBN17, TXLC12, VZT17, YF15, YCWW15]. **streaming** [FGBC10, LLW12, LLH+16, MLHL12]. **streams** [CPS11, CJL11, DS12, KK17a, LJL+12, LLML13, NDS13, VTZ+17]. **strength** [AZ11, CWK10, HCT+15]. **stress** [AL10]. **Striving** [Dan17]. **Strong** [KRDH12, FWCS12, HYWS11, LJ16, CCGG14]. **Strongly** [SXYM11, THS12, EZG15]. **structural** [AC17, BDO11, CFMRL11, KOL+14, KCV+19, LMIV15, NOPF12, PXT+13, PACH15, XLM+15, YZY+18]. **structure** [GAKF13, HTB12, HR10, JRSN10, KHW19, LBX12, QGZ+15, SM17a, ZLW+12, dSF12]. **structured** [SMM17, WKD+19, YTW+13]. **structures** [Cic16, FMR11, ISM11, Lin12a,

SAA+10, WS12, CSS10]. **Structuring** [DGRN10, SWA+13]. **student** [IF19]. **studies** [CdS18, CRSS14, DDMP14, GNA17, HWC+10, JCYT16, KSIZ19, LCM+13, MPTT14, PPG+13, PCCLdGP12, SAH12, UGFK15, WRdMSN+13]. **Study** [KBM18, SSR18, ASGJ13, AJG+15, AAGT16, AB16, ADCO18, ACB18, ASG17, ACG+15, ANG+19, AMdLM17, ACS13, AAC+17, ABJ+17, AHC+11, BRB14, BCFP19, BBND+18, BCD+18, BMB19, BAM17, BLTY18, BS12, BAAD17, BDM+19, BHVR18, CSF+14, CS15, CdSdSG+18, CC11, CXO+15, CO12, CPRT16, CNMR18, CFA+19, DvdVA+13, DVPY+19, DLM19, DFG+13, ECS15, ESM+19b, EGHO16, EED16, EBC10, ELHC13, FSGYP17, FLRT19, FMdAR16, GMMGP15, GCDY16, dGFDL16, GTF15, GPPT16, GSdS16, GW10, HHKWB16, HBP+17, HJN11, Han12, HKS+17, IF10, JSL16, JWA14, JLL19, JCYT16, JAS19, JR15, KBJZ15, Kan15, KFN19, KFLS18, KJS+12, KNA11, KSIZ19, Kit10, KSM+16, KQ17, KMG+19, KBRV17, LWSH19, LAL15, dPLV19, LPB19, MBF12, MVLJ18, Man16, MAH18, MDBC17, MAEL19, MFM10, MPLL+15, MGvFGCB10, MGR+13, MRS18, MRRS19]. **study** [MD16, MHLMG14, NCS10, NCW+19, NVPGMPSM17, NBF16, OK11, OBS+18, OWG19, OCC13, PSS+16, PAB+17, PWS+15, PTF+15, PV18, RTM19, RDPM19, RAS14, RASL12, RHL+17, RB16, RM19b, RVCM17, SCMS15, STS+19, SCwY12, SCL13, SMS11, Shi12, SKRB19, SVM19, SHS16, SCC16, SNDC13, SSD16, SLLL14, SLL+15, SKF17, SAN+17, TKZW17, TKSRP11, TAJ+10, TAF+17, TdCAF16, VBC+14, WGKW19, WRR14, YC13, YLA16b, YLA+17, YHMS16, ZSG16, ZXC+17, ZFY+19, dSdMSNO+14, vHAT13, vHJPB+17]. **styles** [KBDGAW16, KG10, LJDK10, MKS10, MCV16, SRSC16]. **sub** [ELHC13, LLZW14, YZC15]. **sub-patterns** [YZC15]. **sub-swarms** [LLZW14]. **sub-system** [ELHC13]. **Subdomain** [PAOC15]. **Subdomain-based** [PAOC15]. **subject** [EA14]. **subject-based** [EA14]. **subjective** [AL10, LY18]. **subscribe** [CDRT13, HBG+13, LJC16, LVPMPCLS13, RMD11, LJDK10]. **subset** [XLL+19]. **substitutes** [TTC15]. **subtree** [LWXZ10]. **success** [CO12, DPVvV19, DPL16, GGC16, Ifi11, LSD+16, MP12, PHR10, RCCVB11, SNDC13, WR10]. **successful** [ZADA15]. **suggestions** [BD16]. **suite** [CdCAdO18, FAM15, HCT+15, WAG15, YH10, ZYZZ14, LGM+18]. **suites** [AZ11, CWK+11, MH11, SPMG18]. **Summarizing** [RDVC19]. **Summary** [ZJL10]. **Sun** [SSF15]. **super** [ZLZ11]. **supercomputer** [SMM17]. **supercomputing** [RGH17]. **superscalar** [CD10]. **supplementary** [SYXL17]. **supplementing** [BS12]. **supplier** [SAR15]. **supply** [CPS11]. **support** [AHOP14, BWH10, BDG13, CNG16, EL10, EH19, GPMI13, HNZ17, HP16, HCB+16, IBM11, KLL+11, LZG15, MLHL12, MKS10, MIKG13, NI13, OAC11, PLVB+18, PH13, PWW10, PBD+12, PV18, RO13b, RA16, RRM17, RDVC19, ŠK11, TJH15, TTL10, URG10, WPL+18, FSS+13]. **supported** [AAN11, BD10, ISM11, KLL17]. **Supporting** [AACT13, ACL13, CFL+18, CPS11, GGvH+18, HBG+13, HBG+14, HP16, JS13, SHC+11, YFZ+16, DGRN10, JCK+17, LGZ+18, THWC10, WB12, WBBK18, YYS+16, GCC+15]. **supportive** [SKK+18b]. **supports** [CHL11, HWL13a]. **suppression** [LM13]. **surface** [CPRT16]. **Surfing** [BAI+14]. **surrogate** [MPLL18]. **surveillance** [MJZ+10, XLM+15]. **Survey** [CDS19, HCL+10, KKA+19, AAC16, ABC+13, AT15, BGEP17, BCG+14, CCP18, CRKH11, FBD+18, GV10, GZ13, GCBCD15, GK18, GDLB16, HG18, JSHW14, LKRYTS18, LCM+13, LSD+16, MCHJ17,

MARD16, OK18, PWS+15, RRV19, Rya13, San16, SS18, SSK19, SNDC13, TTR+13, TKP+18, WWSS13, YLA16a, ZXTT11, dSB12]. **Survey-based** [KKA+19]. **surveys** [JWA14, Sta14]. **Survivable** [WMD+10]. **Surviving** [CLY14]. **Sustainability** [GL14, NCWK18, CFAP17, VCB+18]. **sustainable** [GGS+19]. **sustained** [SDG17]. **SVM** [TLL13]. **Swarm** [AZ11, PGP+19, DRCG12, LLZW14, MDO+10, dCPV10]. **swarm-inspired** [MDO+10]. **swarms** [LLZW14]. **Switching** [GFP11, CCdR+16, CTHW12, SYBN12, aSRZ+18, WL15b, WMOKY11]. **symbolic** [ACH19, BSB12, EED16, dCPV10]. **symbols** [SB17b]. **Symposium** [Bor12]. **synchronization** [DGWC16]. **synchronizing** [LZCL19]. **synchronous** [BKRW19, KKH+16]. **syndrome** [BMS11]. **synergistic** [TGP11]. **synergy** [ST11]. **syntactic** [CJL11, KOL+14, QLBS17]. **syntax** [EA19]. **syntaxes** [PC10]. **synthesis** [CCG+18, rBHM17]. **synthesised** [KMWL12]. **synthesized** [NSDI16]. **Synthesizing** [AMCC14, CGS19]. **SysML** [CKL12]. **Syst** [AAH12b, APS+10, BKSM14, LKJR10a, LHP+10, WZM12a, XTZX13, YWEL+13, wZfG14a]. **system** [ASGJ13, AT18, AYZI10, AR17, AAA11, AWSE19, BSG12, BRG+12, BDBLP15, BDG13, BSG+18, CCdL+16, CH11, CTL12, CNSG12, CHL+13, DII+17, DvdVA+13, EH19, ELHC13, FNWL18, GBH+16, GPSS+13, GPPT16, HCB+16, HCL12, Hoo14, HAE+15, HWLM11, Ifi11, JS11, KK11, KAK+13, KA14, KLP10, KGG18, KSM+16, KMK16, KJ10, KH10, LS17a, LLLK12, LXG10, LLLK10, LHP+09, LHP+10, MCL+17, MS16, MAH18, MCS+12, MCV15, NI13, NJ17, OD10, PK10a, PNY14, PH13, PDBD18, RAK15, RA16, ST13, SV19, SGW+15, SB12, SMK+18, TKSRP11, TG17, TLZ+16, TTL+13, TCCH12, TDW+14, WRTP+13, WGZ+12, WKD+19, WKV11, WL10, WLL+13, XB19b, YC13, YSG17, YH13, YCWW15, YCLC17, ZML17, ZXG10, dRSBA13, ESRF19, LLGZ13, WFY+19]. **system-level** [WL10, YC13]. **system-specific** [HAE+15]. **system-wide** [HCB+16]. **system/software** [CNSG12]. **Systematic** [BEK+19, GCAH18, IHA16, KBM18, PHBJ16, SKT17, AJG+15, AAGT16, AB16, ADCO18, AKAA18, AVGM19, AM18, APW14, ABJ10, AS16, BWP16, BKS15, BCFP19, BBND+18, BMB18, BLTY18, BDM+19, CX10, CP15, CS19, CNMR18, DLM19, DPL16, DBCG14, DZT+14, ESM+19b, FSGYP17, GRR16, GJ16, GNA17, GA11, dGFDL16, HBP+17, JED18, JCYT16, KBJZ15, KGB11, KNA11, KSIZ19, KQ17, KBRV17, LFW15, LL15, LZO+13, LAL15, dPLV19, MWM12, MH13, MRT17, MRY17, MAEL19, MGAN18, MD16, NVPGMPSM17, OGRJ+18, ÖT18, PG12, PPG+13, PMB15, PFO+19, RAK15, RSBA19, RHL+17, SNL16, SRJL+18, STA19, SLB14, TTM13, TAF+17, TLGE18, TCS18, VLC+17, VCMG17, WPL+18, WNC17, YLA16b, ZADA15, ZSG16, ZGYS+15, BPQP+10]. **Systems** [ABB15, Ano19l, BEZ14, HST16, TTT14, UB19, WLL19a, Woh16, YMM+19, Aba13, AC19, AZX14, AB16, ADMOK+10, AR18, AHLH16, ACRD19, AAC16, ÁRMC16, ABL15, ACW10, BL19, BSK+18, BM18, BLL+18, BPO+16, BD16, BHH+12, BM17, BT17, BDM+19, BKRW19, CX10, CCG+18, CGS19, CSMC19, ÇT13, CWK+11, CCY11, CCH14, CLY17, CIB+19, CYT16, CKC15, CNKL12, CHCO11, CH10d, CDS19, CSM15, CDPM17, CCMOM19, DWC17, DBZ16, DFJ19, DNSH13, Dut15, EZOK14, EGG+11, EB14c, EBJ17, EK13, ETYL15, FKA16, FVHF+15, FOR19, FKWVH19, FTC16, FTSC12, FGBC10, GKD13, GMPN16, GVPPM18, GJ16, GMR17, GBH+16, GSP+19, GMLSF+15, GCC+15, GHBD+16,

GBC16, GGM11, HyLW+12, HdM17, HZG+12, HNS12, HK13, HGMB13, HH17, JKC19, JSM10, JS16, JAS19, JRO12, KRD16, KHSD10, KHS11, KTF15, KH14]. **systems** [KKL+11, KAS18, KGG18, KAM13, KKLB11, KHC16, LJH10, LJC16, LLM+17, LMS11, LMN10, LSE12, LS17b, LFCL12, Li11, LLW12, LWL+13, LG15, LGHR16, LL10, LLK11, LC11, LNW+11, LNY+11, LLL+14, LZC14, LDS+19, LLS11, MJF10, MRT17, MBAG11, MB19, MAEL19, MPLL+15, MA11, MNSA15, MNSA16, MHLMG14, NCK+15, NCWK18, NKMM12, NK15, NPC12, NTdSX13, OSH+18, OKMD12, OB13, PSM12, PSS+16, PCHW12, PBM19, PCYZ12, PPMM17, PGPC17, PFG13, PRN17, PDL+16, PZ15, RAK15, RXY+19, SYBN12, SJR+11, SÁM+16, SNL16, SRT+12, SY16b, SJ17, SS14a, dSSVV11, SK10, aSRS+10, SHH+15, SJH+10, SAN+17, TZ12, TAB+16, THWC10, TCS18, URG10, VM12, VRPT18, VZT17, VRG+16, VHFST15, VHFF+17, WFF18, WL17, WMWZ12, WMAS12, WBBK18, WTG+11, WB15, WX10, WWY+12, XB19a, YAY13, YWWS10, YTW+13, YSJ13, YSSaR14, ZK13, ZMB14]. **systems** [wZfG13, wZfG14a, wZfG14b, ZXL10, ZGSH13, ABCH13, JWT17, WFY+19, WL10, ZAY19].

T [CM12]. **T-REX** [CM12]. **'T.** [YWEL+13]. **table** [WWLG13]. **tabling** [AR17]. **tactical** [ETYL15, STS+19]. **Tactics** [UB19, WK15, HA10, LL15, MPLL18]. **Tactile** [RLL+18]. **tags** [CCD19, WL17]. **TAIC** [BKW10]. **TAIC-PART** [BKW10]. **tailoring** [CP15, CCP18]. **Taking** [Bos12]. **TALISMAN** [GDFFPG+10]. **TARA** [Woo12]. **target** [GTY12, LT11, SA18]. **targeting** [MA17]. **Task** [KHSD10, KHS11, SKT17, BRS+18, CSMC19, CYT16, CKC15, DFJ19, DCT17, FHL+15, KSN17, LS17b, LWL+13, NI13, SK10, TKJL13, TC16b, WX10, ZW15, ZCC+17, ZGL+10]. **task-aware** [CYT16]. **task-clustering** [DFJ19]. **task-solving** [BRS+18]. **tasks** [AMP12, ABB19, CZG+15, FBD+18, GGS15, JSL16, KWS+17, KA17, LCLS16, MER17, RBS19, Wen16, wZfG13, wZfG14a, wZfG14b, ZHGL11, ZGSH13, MK15b]. **Taxation** [LLW12]. **Taxonomy** [KSENM17, SZ11, SS14b, DGWC16]. **TD** [SOS+16]. **TDQN** [MB19]. **teacher** [NI13]. **Teaching** [Som13, SBAH17, vWSB13]. **team** [HM16, LCCJ10, OCC12, RSGH12, RKK16]. **teams** [DCP12, GD12, GTF17, LS17a, LSD+16, TR18, VBC+14, VvSvV16, YHMS16]. **Teamwork** [JKC19, LSD+16, IF19, RF18]. **Technical** [MS16, MGM16, BMB18, BMB19, CREH+18, FKA16, FSGYP17, GSdS16, LAL15, MKS+18, PWS+15, SSK19, TAV13, YHMS16, ZCC+19, VM12]. **technique** [BBBP13, EZOK14, GCSÁddP11, HPH12, HR10, LWLL12, MK15a, PMDH13, SAA+10]. **Techniques** [BKW10, AAM+17, BRB14, BPGS13, BLTY18, CBT+14, CL18, CKS15, CPR13, DC17, FYCL13, FBD+18, IAA16, KSAR18, LH11a, LHLG+15, PFO+19, RO13a, RGH17, SLB14, SLL+15, TSCB19, TTR+13, WAG15, ZFS15, ZSG16, ZML10, WMD+10]. **technologies** [PPN+15, WPL+18, YSJ13]. **Technology** [CCCY17, LWZ12, AT15, CLR18, CCWT13, LPM15, MCV15, NHH+12, PHR10, SMM17, WPL+18, Wie14, XLM+15, ZMK12]. **teleo** [MNSA16, SÁM+16, MNSA15, SAMN12, SÁMI17]. **teleo-reactive** [MNSA16, SÁM+16, MNSA15, SAMN12, SÁMI17]. **TelosB** [APS+10, PAS+10]. **Temperature** [WX10, ZCC+17]. **Temperature-aware** [WX10]. **template** [GCSÁddP11, ZZ16]. **templates** [NBA+15, SGK12]. **Temporal**

[Pra18, Lin12a, LNW+11, MC10, SKE10, WWY+12]. **tenancy** [KBJZ15]. **tenant** [LZG15, MCC+18, MVLJ18, PHBJ16, WVT+14]. **tendency** [MRS18]. **Tensor** [nQYD11]. **tentative** [LZY+15]. **term** [UD10]. **terms** [CAHV15]. **tertiary** [KSIZ19, NBF16, RTM19]. **Test** [AG15, AMdLM17, CZC+18, HMOK18, KMK16, LCL+12, MGM10, SD16b, SCC16, AAGT16, AZ11, ABC+13, AWSE19, BFLZ13, BGLG13, CL18, CF13, CWK+11, CKMT10, DVPY+19, DW11, EFSJM17, EGM+11, FAM15, GK18, GKS18, GZY11, GTY12, GP10b, GPD+19, GEM15, HBT16, HN17, HWC+10, HCC10a, HPH12, HCT+15, JC15, JCK+17, JKL19, KAS18, LQLW12, LNTS19, LLWL19, MH11, MCTM11, MB17, PS13, PSS+16, PAOC15, PWA+19, Pra18, QBO+14, SPMG18, SB12, TAS+18, TGKL19, UGFK15, WQJZ10, WGC+14, WAG15, WXY+17, WZY+18, YH10, ZYZZ14, ZJZ+17, ZYZ+17, ZZC18, ZAY19, ZTPT18, BMKM15, ZLL+12]. **test-case** [HCC10a]. **Test-Driven** [BMKM15]. **test-point** [BGLG13]. **test-to-code** [QBO+14]. **testability** [AAM16]. **testbed** [RLY+13]. **tester** [RPSL10]. **Testing** [ABCH13, BKW10, CKMT10, CPR13, WCTK12, XHM+11, ANG+19, AAM+17, AAB19, AL10, AWSE19, BRB14, BBEM11, BAAD17, CNM18, CF13, CWK+11, DGBE18, DBCG14, DFG+13, EED16, FFV19, GV10, GZ13, GKS18, GP10b, GCMB17, HZH+16, HJP15, HPH12, JCYT16, JCK+17, JKL19, KAO13, KSN17, KSH+12, LHJ10, LCM+13, LXJL10, LQLW12, dPLV19, LNTS19, LLL+14, LGS+19, LYC14, MK16, MFTP18, MRT17, MFMCY12, MS17a, MN19, MSHG18, OD17, PS13, PK10b, PW18, PFO+19, PACH15, PV18, QXYL16, RB16, SD16b, SCL13, SSP+15, SRBT18, TTM13, TG17, TT13, TTT14, XLW18, YCG+14, YSSaR14, ZSG16, FH10]. **tests** [CPV+14, Kim17, RBS19, SCC16]. **text** [BLTY18, IZ18, Kan15, PWC12, SI12, SLLY17, TCK14]. **text-based** [PWC12]. **textual** [AS17, OFR+12, QBO+14]. **theft** [BTPLST15, CKCK15]. **their** [CFL+18, CHN19a, HRRC16, KCV11, LJ16, MNO18, PSZ17, RSB+14, VLL18, WFF18, vHAT13]. **Theoretical** [SOS+16, LWL+16, ZYZ+17]. **Theory** [GN15, Woh16, AKH12, CL17b, DC17, Han12, JG14, JMML17, LPB19, SSD16, VA17, WSM15, XJZ+15]. **there** [KL11]. **Thermal** [TC16b, CKC15, ZW15]. **thermal-aware** [CKC15, TC16b, ZW15]. **Thermal-throttling** [TC16b]. **Things** [MOD+19, PC15]. **Thinking** [CMR19]. **third** [AHC+11]. **Thread** [LCLS16, TLZ+16, WLL19a, WLL19b]. **Thread-level** [LCLS16]. **thread-related** [TLZ+16]. **threads** [WLL19a, WLL19b]. **Threat** [TCS18, WSJ14]. **threats** [CRL+12, KOS15]. **three** [DGWC16, KSM+16, LWC+18, LZC14, ST13, TC16b, YC12]. **three-dimensional** [DGWC16, LWC+18, TC16b]. **three-level** [ST13]. **three-party** [YC12]. **three-phase** [LZC14]. **Threshold** [CT11b, GLW13, YWEL+13, Kim17]. **Thresholds** [MSGGL12, FBB+12]. **thriving** [vV13]. **throttling** [TC16b]. **tied** [EZG15]. **tier** [WDC12]. **Time** [SKF17, AMP12, ABB19, AMAY19, ACB18, ACL13, ÁRMC16, AGC13, AAC+17, BLS18, BL19, BMS11, BKRW19, CPS11, CLL10, CZG+15, CBL+15, CLF+13, CS12, CF12, DYC19, EBEL18, EGG+11, EK12, EK13, FHL+15, FHY17, GLZ15, GPPT16, GBC16, HyLW+12, HCB+16, HZG+12, HNS12, ICSK14, IYS13, JLZ+19, JAS19, KC16, LESL11, LSE12, LS14, LS17b, LFCL12, LWL+13, LC11, LNY+11, LW13a, LHP+09, LHP+10, LKK14, LGS+19, MBD13, MFMCY12, MSAH16, MT10, MK11, MMTS15, NPC12, PNY14, PPB19, PG15, RFM10, RXY+19, RGH17, SW10, SB17b,

SMS11, SAKZ15, SK10, TAS+18, TKJL13, TKJ15, TC16b, VZT17, WMWZ12, WX10, wZfG13, wZfG14a, wZfG14b, ZW15, ZHGL11, ABCH13, HL10]. **time-based** [SAKZ15]. **time-decaying** [JLZ+19]. **time-division** [MSAH16]. **'Time-out** [HL10]. **time-series** [LNY+11]. **time-synchronous** [BKRW19]. **time-triggered** [SW10]. **timed** [HRD10, MXZ11, PJT+17, ABCH13, YHM+14, ZLG10]. **timed-release** [MXZ11]. **timing** [CWK+13, CF12, SÁM+16]. **tiny** [PWY+16]. **TinyOS** [OMLB16]. **together** [ESM19a]. **tolerance** [AM15, CCH14]. **tolerant** [CSW10, GPSS+13, LLH+16, NSAK10, WMWZ12, YSDT11, ZHGL11]. **tomography** [BAI+14]. **too** [HLS+13]. **tool** [AT15, ABFM12, CDGJ10, ÇT13, HP16, MTA+16, OAC11, RHRC13, RHRC15, RRM17, TAS+18, TVMS18, TC12, WBBK18]. **tool-support** [HP16]. **tooling** [CPDM16]. **toolkit** [MRJD+12]. **tools** [ANG+19, HBR19, KTF15, MG11, RDPM19, RAK15, TAJ+10]. **Top** [SHN14, Won10, MLLK11]. **Top-** [SHN14, MLLK11]. **Topic** [CSN+17, YFZ+16]. **Topic-based** [CSN+17]. **Topics** [CA14, CCD19]. **topological** [TNK+19]. **topology** [AN10, DMSG11, LLHY19, MARD16]. **TOPSIS** [LY18]. **Tor** [MK15a]. **ToscaMart** [SBB+16]. **tossing** [BNS12]. **totally** [JHYK10]. **totally-** [JHYK10]. **TOTAM** [BSDD14]. **Touch** [SHBC19, CTL12]. **TPM** [PWY+16]. **Trace** [MB19, CWK+13, GKV14, GXZ+19, dL13]. **trace-based** [dL13]. **Trace-driven** [MB19, CWK+13]. **traceability** [GE15b, LKJR10a, LKJR10b, MG12, MSS18, QBO+14, TGE17, WPL+18, WBBK18, YYS+16]. **traces** [AHLH16, CBSM16, GKV14, MHLMG14, PH13, PDBD18]. **track** [BSK+18]. **track-based** [BSK+18]. **Tracking** [WLL19a, WLL19b, CBSM16, LT11]. **trade** [CFMRL11, SPCT18]. **trade-off** [CFMRL11]. **trade-offs** [SPCT18]. **tradeoff** [CGS19, PCYZ12, Pot13]. **traditional** [VTZ+17]. **traffic** [BSK+18, CCdR+16, DII+17, LJM11, LLH+16, MPTT14, WC11, WMOKY11]. **TRAILS** [WBBK18]. **training** [DBL+18, KJ10, LMNA17, NBH19, XLL+19]. **traits** [ARH+17, BD17]. **trajectories** [GSN+15]. **trajectory** [CL17a, KPT13, VTZ+17]. **transaction** [DK15b, DWC17]. **transactional** [KVT+17]. **transactions** [HyLW+12]. **transfer** [MXZ11, RLY+13, WPL+18, YJZ17]. **Transferring** [MFTP18]. **transform** [CJ13, Lin16, NES+14, TK14, yWpWyYpN13, WS13]. **transformation** [BGTC18, EBEL18, JMML17, KLL17, LKRYTS18, Lin12b, MBPM19, nPHW+16, PRN17, SHC+11, YHM+14]. **transformations** [CCGdL10, CCGdL16, DPL16, LKR13, SDB16, TSRC18]. **Transforming** [SS14a]. **Transition** [GC13, JMML17, GN15, KK12, LCL15]. **transitions** [EAH+11]. **translation** [KKLC12, KAS18]. **transmission** [MMTS15, PSdO+13]. **transparent** [CCdR+16, LLLK12]. **transport** [LHP+09, LHP+10, ST11, XZP+10]. **Trapdoor** [RPSL10]. **tree** [GGvH+18, HWL13a, LHY12, PDBD18, RLL+18, SA11, WQJZ10, ZLZ11, Zha12a, PDBD18]. **tree-based** [HWL13a, SA11]. **tree-like** [ZLZ11]. **trees** [BTPLST15, KMWL12]. **trends** [Chr16, GBCI11, LZHS11, MKHLB16, PMMM11, YCA17]. **trials** [TKH+11]. **triggered** [SW10]. **triggers** [FGB+19]. **trimmed** [TTL10]. **Triple** [LW13a]. **Triple-image** [LW13a]. **TRiStar** [MNSA16]. **troubled** [KP10]. **Trust** [AHH+10, BCLW11, KK11, MRM16, MLD16, RNR17, SFMB16, TR18]. **Trust-based** [BCLW11]. **trusted**

[PWY+16]. **trustworthiness** [KR14, LY18, SXYW14]. **Trustworthy** [BEZ14, KK11, LLWL14, MA11]. **truthful** [KBRV18]. **truths** [KA17]. **Tsao** [YWEL+13]. **TSTSS** [XLL+19]. **Tuning** [GSP+19, DWC17, PCYZ12, SRT+12]. **Turkey** [GCBCD15, GCDY16]. **TV** [AM10b]. **Twenty** [VCdA+16]. **Twenty-eight** [VCdA+16]. **twig** [CJL11]. **twig-query** [CJL11]. **Twitter** [CCGG14]. **Two** [HWC+10, MT13, YSL+10, BV16, ÇB16, HJ12, LCM+13, PPG+13, PFL16, TLK+16a, XLL+19]. **two-phase** [HJ12]. **two-stage** [XLL+19]. **type** [ASMN15, KCV11, TPGdS13]. **typed** [QOLJG16]. **types** [CPZF19, CPR13, MRS18, WH15]. **Typical** [ZDC+11]. **typing** [SY16b].

U [GMGTdFR14]. **ubiquitous** [ADMOK+10, CdCAdO18, GZKL13, HGP+12, MDP+11, SNL16, SY16b]. **UCSD** [LGC17]. **UDP** [BP15]. **UI** [KL10, KL11]. **ultrasound** [CCWT13]. **UML** [CCR14, Cic16, HJBH10, KSS15, LCLP16, OT17, PC10, SDB18, SHS16, TLGE18, TGP11, WWSS13]. **UML-based** [HJBH10, SHS16]. **UML/OCL** [CCR14, OT17]. **UMTS** [OHJ10]. **unbounded** [LGS+19]. **uncaught** [OBS+18]. **uncertain** [CZG+15, LW13b, MAG12]. **uncertainties** [CIB+19, PS15]. **Uncertainty** [CPYZ14, ZAY19, ATvHJ18, GE15b, SFMB16, TGE17, WLL15, ZYA+18]. **Uncertainty-wise** [ZAY19]. **underfeeding** [BBBP13]. **undergraduate** [IF19, RF18, RHM+18]. **underlying** [dSF12]. **Undersampling** [LLC17]. **Undersampling-Boost** [LLC17]. **understandability** [CFRPC+18, MNO18, MNSA15, MNSA16]. **Understanding** [AC17, CPZF19, CFA+19, EGHO16, FMR11, KA18, KQ17, MPS+12, NBF+19, QLBS17, SA12, SS12, Kel15, ZFY+19, dSF12, BV18]. **underwater** [LWC+18]. **unforgeable** [SXYM11]. **Unicode** [PWC12]. **unified** [BMB18, GPSS+13]. **uniform** [GP10b, MGB16]. **UniSpaCh** [PWC12]. **Unit** [Jør16, EED16, PV18]. **univariate** [LM13, LW13b]. **universal** [RA16]. **universe** [FNWL18]. **universities** [Fug12]. **university** [MHB18]. **unknown** [HAE+15]. **unlabelled** [ZZC18]. **Unreliable** [XZP+10]. **Unsupervised** [AIE19]. **Unusual** [TLA18]. **Unveiling** [LAH+16, JLY14]. **update** [HyLW+12, IBAH12]. **updating** [GCSÁddP11, MIUM12]. **upgrades** [BCBZ14]. **upon** [Lin12b]. **Upperware** [BSG12]. **urgency** [CBL+15]. **URL** [HRRC16]. **URLs** [CCY11]. **usability** [AJLS10, ACG+15, AL10, BGG10, BS15, FAI13, FH10, JAS19, RAJ15, TPGdS13, VHL14, WK15, WR10, WRR14]. **usable** [PSS11]. **Usage** [SHGT16, GHBD+16, dGFDL16, NHH+12, NKZ17, PTF+15, QLBS17, SOS+18, Sal17, SPSR17, SS12, SDG17, Sta14, SK13, TKZW17, XSL+18]. **Usage-based** [SHGT16]. **USDL** [GS17]. **use** [APW14, BS12, BHVR18, EA19, EVR11, EBC10, FG15, GGK19, GTA14, HHKWB16, HGBS18, HBR19, JK12, LS17b, MCHJ17, MG11, MAS13, MSK+17, MHLMG14, OGK13, SS14a, SDB18, WLD16, ZYA+18, dB12, SSP17]. **use-case** [GGK19]. **used** [ZZ16]. **usefulness** [ZZC18]. **User** [DLW+13, OD17, dSSVV11, Aki18, AKL14, APT+12, BCFP19, CCY11, CMK+11, CH10a, GNA17, GW10, ILZ13, LXJL10, LHG+18, LLHY19, LZLC17, LASL14, LSLG17, MNO18, MH12, MCV15, PLVB+18, RZMPM12, SP14, SHBC19, TZ12, TKH+11, WOLS12, XYCL17, YSL+10, ZÁ15, AHBA19, GC13]. **user-centered** [ZÁ15]. **user-friendly** [MCV15, WOLS12]. **user-input-validation** [LXJL10]. **user-participating** [CH10a].

users [BPGS13, CFL+18, Kan15]. **Using** [ASdMGM14, AAM16, CCdR+16, CXO+15, EA14, JG14, LBCL10, Lin12a, MER17, NHH+12, PPG+10, RBS19, SSF15, SAH12, WZY+18, WRS+17, XPBC11, YH10, AR12, ABCH13, AMAY19, AZ11, ACB18, AC16, ANC11, BDO11, BNS12, BK17, CCR14, CF13, CPD+18, CNL13, CIB+19, CSW10, CCWT13, CSW13, CL15, CL17b, CBL+15, CHCO11, DW11, DYC19, DPP+18, EEAZ13, EBEL18, FS19, FF12, FSS+13, GZKL13, HZ15, HSPD14, HC10, HCL12, HPF16, HCC10a, HCC10b, HS11b, JJC+14, KHSD10, KHS11, KSN17, KNA11, KSAR18, KM11, KCV+19, KA14, KMWL12, KKP12, KLB15, KMK16, LMH10, LK16, LWXZ10, LQW+12, LWC13, Lin16, LLX+11, LZKW12, LZ12, LQC+14, LTW16, MH12, MMSD13, MM14, MKH+12, MRBN17, MTF14, MS17b, MBPM19, MC10, MB10, MGM16, NHC13, NBH19, OCC12, OH15, OKS+15, PS13, PDS19, PB11, PD16, PPN+15, PXT+13]. **using** [PCCLdGP12, PFF12, PRN17, PMB15, PWC12, QBO+14, RSB+14, RCCVB11, RHRC15, SCS15, SAA+10, SPSR17, SRSC16, SKE10, SBZ+17, SSP17, SLLY17, TJH15, TAF+17, TK14, TTC18, TKP+18, TLL13, TXCX19, UUN11, WRTP+13, yWpNyL11, WAG15, WCX15, WL16, WLL19a, WLL19b, WKD+19, Woo12, WB15, Wu11, WCB+17, XZP+10, XLM+15, YWTW11, YSL+10, YZL+14, ZLW+12, ZYZZ14, ZLmLN14, dOCS13, rBHM17, vHJPB+17, HSS10]. **utilization** [BSKL10, KK17b, NZM10]. **Utilizing** [GSM15, LLW12, APT+12, SK10, ZJZ11, SRBT18]. **UX** [KFN19].

v [CIB+19]. **validate** [MM19]. **Validated** [SGK12]. **validating** [XHM+11]. **validation** [AMGG14, CCGdL10, EZOK14, FAI13, GKV14, GTF15, HP16, HKS+17, KKH+16, KM13, LJH10, LMGHB17, LXJL10, LSLG17, LHP+09, LHP+10, MPLL18, SCMS15, SMK+18, Wie14, YXP+18]. **validity** [VHL14]. **value** [ASG17, APS16, CSW13, HCL12, HSS14, LMGHB17, MKS+18, PCYZ12, Shi17, TC16a, VvSvV16, YWTW11]. **value-based** [PCYZ12]. **value-oriented** [LMGHB17]. **valued** [KLB15]. **values** [KK11]. **VANETs** [ACL13, ACSC16, WOC15]. **Variability** [GAMW14, APM+14, CFL19, CHN19b, FFV19, FRGC10, RTM19, SRBT18, aSRS+10, SHBC19, TB13, VPL+10]. **variable** [AZ11, LWC13, WCC13, XTZX12, XTZX13]. **variable-length** [LWC13, XTZX12, XTZX13]. **variable-order** [WCC13]. **variables** [BHH+10, MH11]. **variance** [HC10]. **variance-controlled** [HC10]. **variant** [CNG16]. **variants** [BZ10, CRC19, LNTS19, MAGC+17, RBW18, SSS17]. **variation** [LMT16]. **variations** [RF14]. **Varied** [YWWS10]. **varieties** [YWTW11]. **VAS** [SC14]. **Vector** [FSS+13, LBX12, PWW10, TTL10]. **vectors** [CKCK15]. **vehicle** [BKLE18]. **vehicles** [MSHG18]. **Vehicular** [ACSC16, ACL13, Cho13, HWHT11, WOC15]. **vein** [WLL+13]. **vendor** [AK16, SCO13]. **vendors** [KNA11, RNR17]. **veracity** [WLL15]. **Verification** [CCGdL10, ABB15, BBA10, BK11, CCR14, DAR14, DBZ16, FDN+16, DDF+13, KK12, KSN17, LCLP16, LLL17a, LSLG17, MS17a, MA11, NTT19, PJT+17, SK18]. **verified** [YHM+14]. **verifier** [FWCS12, HYWS11]. **Verifying** [CIB+19]. **VERSAG** [GZKL13]. **Versatile** [EBJ17]. **version** [XLL+19]. **versioning** [RvDV17]. **versions** [DEW+16, LNTS19]. **versus** [FFdRG+14, GCDY16, Shi12]. **Vertical** [CH10d]. **very** [KKR16]. **vetting** [RDPM19]. **via** [ADET12, CKCK15, CdL18, GLJ13, HP16, HH17, KCT12, KM13, LT13, LPM15, PDL+16, RLL+18, SD16a, SPTM15,

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