

A Complete Bibliography of Publications in the *Journal of Software: Evolution and Process*

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13 April 2022

Version 1.06

Title word cross-reference

PKBT16, **Pot16**, **RFM16**, **SA17**. **2016** [KOPR17]. **2019** [HAS21]. **20th** [BMCP14c]. **26262** [IK14]. **29110** [LSCP16, MPS⁺16, MM14, MPM⁺20, SGSGYO19, TKS⁺14]. **29110-based** [MPS⁺16].

² [BMP13]. ⁴ [GGGBEM18]. *p* [IAA18a]. *v* [BSB16].

-algorithm [BSB16].

1 [WCS14]. **12th** [KDK13]. **13th** [FKW13]. **14971** [FMC⁺15]. **15939** [ADCG12]. **18th** [PP14]. **19th** [OP14].

20000 [WCS14]. **20000-1** [WCS14]. **2010** [BMP13, CDF13]. **2011** [CT13, PP14, RPZ14]. **2012** [CLC14, MC14, OP14]. **2015** [AÖAG16, De 16, DHH⁺16, KTHS16, LSBV17, LSCP16, MPS⁺16, MMJB16,

3 [vdGK12]. **3.0** [MKMW18]. **31000** [BMM19]. **31000-based** [BMM19]. **33014** [PHJ15].

4-year [MMJB16]. **4th** [PF18].

5 [GCMS14, RMOP20].

60880 [VNM14]. **61508** [VNM14]. **62304** [RFM16].

9 [LSBV17]. **9126** [ADCG12].

A/B [FDM⁺18]. **abilities** [SRSEGA14]. **abnormality** [AAYK20]. **abstract** [NSDD17, YZT22, BGM20]. **academia** [RBE⁺21]. **accessibility** [SGSGYO19]. **accidents** [CKMN15]. **according** [LLLL21, MM14]. **Accounting** [Al 15]. **accuracy** [IAA18a]. **Accurate** [WL16, KTYK16, TUF20, WWQ⁺21]. **Achieving** [BJF12, GCMS14]. **Acknowledgements** [Ano17m]. **across** [JPvdW⁺17, LSF20]. **actionable** [MGN18]. **activities** [WWQ⁺21]. **actual** [LHEG18]. **ad** [OB17]. **adapted** [HGGASVD14]. **adaptive** [GNIS18, LAF⁺18, RM22]. **ADAS** [MKMW18]. **Additional** [JN12]. **Addressing** [BCPM20a, SL20]. **Adopting** [MMC14, NMA⁺17]. **adoption** [ASA⁺20, CV21, TST17]. **Advances** [BCPM19, BMCP15]. **affecting** [WKB⁺15]. **affects** [GWA15, RHD⁺16]. **after** [EKV15, SJG⁺14]. **again** [TPB⁺17]. **Agency** [PBDJ16]. **aggregating** [MV14]. **aggregation** [MAL⁺13]. **Agile** [GGJ20, HGGASVD14, PL14, RK18a, SVK⁺14, TWFF18, ASA⁺20, AAM⁺21, ALK⁺17, Ano21b, DT18, Dow14, El 18, ECRJVA⁺18, JW12, KHR18, KMB17, Kos21, Kru13, MPB16, MMC14, NGAEE22, OMTR12, PA14, Pot16, PSMM19, RK18b, SKK⁺18, TGE17, TST17, MGW⁺17, RBG15]. **Agile MANTEMA** [PRGP12]. **AHP** [Yag18]. **aid** [El 18]. **Akari** [HOD⁺14]. **algorithm** [BSB16, KTYK16, KRG⁺13, LSRT16]. **algorithms** [KRR⁺16]. **Alignment** [MGW⁺17]. **allocation** [EKG18, FPA17, II17, RMCLGAM14]. **allocation-based** [EKG18]. **Allura** [TP21]. **alternatives** [LMdVT⁺12]. **AmaLgam** [WL16]. **among** [AAM⁺21, PBSA17, SS18]. **amongst** [AHKL20]. **analogy** [AI21, HIA19, IAA18b]. **analogy-based** [IAA18b]. **Analysing** [LGNEAO20, KLWA20, SVK⁺14]. **Analysis** [ECRJVA⁺18, FPA17, KLG17, MPM⁺20, AVC20, AL17, AAYK20, Ano21c, Ano21t, BSEA14, BHLO16, CPR15, CLC14, EPG18, JMCC18, Jun12, KKK⁺21, Kos13, KFYI13, LSBV16, LSBV17, LHR18, LHA⁺16, NSDD17, PMT20, QB21, SJG⁺14, SZ12, SP22, Stu12, UY13, XLWZ15, ZWW⁺20, CS13]. **Analytic** [KHZ21, SKK⁺18]. **analytical** [AKKM20, ASK⁺21, AKM⁺21, KS20]. **Analyzing** [AN17, LLLW18, ABB14, BMZP14, RF16]. **Android** [MDV⁺18, QB21]. **animations** [Sir18]. **Anniversary** [BMCP14c]. **Antecedents** [CCUP21]. **Anti** [MPSM22]. **Anti-bloater** [MPSM22]. **Apache** [TP21, TFAL21]. **API** [CdSdAM16, GRK17, ND20, PJS⁺17]. **App** [GLL⁺21, DGVP21, GLL⁺20, LLLL21, TRC⁺17, LLLW18]. **Application** [BMCP14a, LLLL21, OCCSBDBP20, AHH17, AAYK20, BCC⁺15, BSEA14, BMCP14b, GdSC21, HGGASVD14, Ost14]. **applications** [AMB18, ADFT16, BCD13, CYK20, CLAD17, DMT13, LGS⁺17, LB13, OFAT⁺18, RRD⁺13, UIK20, WRC⁺13]. **applied** [PCCP14]. **Applying** [RMAB15, BM12a, De 15]. **Appraisal** [dH13]. **appraisals** [De 15, De 16, SV21]. **Approach** [ARSH16, SDG21, AKKM20, AHKL20, Ano21p, AAA13, BM13, BHZK12, BCD14, BCD16, CS19, DCVM20, DP15, EIA19, GP16, GEK14, GKHE18, GDAG13, HF12, HH12, IK14, JMR18, KLC⁺14, KKK⁺21, Kos21, Kuh15, KKW18, MAD⁺14, NLNL20, NHLTL17, OKÓ⁺17, ÖTM18, PGM21, SLHS18, SKWD15, SSL15, SNP22, SLMW21, SBPS12, SAC21, UWKRS21, UTZ13, UIK20, WSB14, ZKK13]. **Approaches** [BDB⁺18, BJF12, BMCP15, DRW14, KJS⁺13, LM18, PUWS21]. **Approaching** [GCPM19]. **ArchiMate** [PCCRP21]. **ArchiRev** [PCCRP21].

ArchiRev-Reverse [PCCRP21]. **architects** [VKPvV13]. **architectural** [CNPR13, MB17, SAPF22]. **architecture** [AJP14, Bab12, LGNEAO20, LLSA22, NSDP15, OEC17, PJW17, WRC⁺13, YYF⁺22]. **architectures** [MKMW18, PJW17, PDP18]. **Archive** [MCSGBSA20]. **Arg** [KLWA20]. **arguments** [KLWA20]. **art** [GS18b]. **artifacts** [CDO⁺13]. **artificial** [KTYK16]. **aspect** [AAJE13, BJF12, JMR18]. **aspect-oriented** [AAJE13, JMR18]. **aspects** [AY20, ABG18, KGW13, KJS⁺13, MSB⁺14, Pot16]. **assessed** [GWA15]. **Assessing** [CRP14, LSCP16, RBFM15, TST17, UFF18, SG17]. **assessment** [Abu16, BMM19, BMP13, BMCP14a, CC13, CS13, CYK20, CG14, CWBC17, CPSGAA20, JN12, Jun12, KKN⁺19, KMH⁺15, LS14, LCM⁺15, LMC16, dSLBF15, MMK16, MV14, ÖTM18, PPdAPP21, SKTW14, SN14, SBPS12, TKS⁺14]. **assessments** [CRP14, VMCN20]. **assessor** [ISK15]. **assets** [Ano21v]. **Assigning** [KGPH12]. **assignment** [KRR⁺16, LmDVT⁺12, SBS20, ZKN⁺21]. **Assisting** [PGAP17]. **association** [AAM⁺21, AHKL20, LLJ⁺14]. **assumptions** [EMRF14]. **assurance** [BW18, HMMR18, LML⁺18, Pot16, PBDJ16]. **asynchrony** [JGHA14]. **Atlas** [SNP22]. **attackers** [IZJG18]. **attribute** [Jun12]. **attributes** [NBF18]. **automate** [GP16]. **Automated** [AMB18, HBG21, MLM16, PPPdG20, VMSH13, WFB⁺18, dGNFAT17, NBD17, UIK20]. **Automatic** [FHS13, WPVS14, XBS⁺21, NBCM17]. **Automatically** [ND20]. **Automating** [SGD⁺13]. **Automotive** [Kra13, MKMW18, NRB13, NGAE22, SSB⁺20, VKC⁺21]. **autonomous** [HMB⁺18]. **autonomy** [GdSC21]. **availability** [BM13]. **Avispa** [ABB14]. **aware** [MSK18, PKY14]. **B** [BAAO⁺20, FDM⁺18]. **back** [TPB⁺17]. **Bad** [MRJ20]. **bagging** [ZHC⁺18]. **balance** [HD17]. **Balanced** [dH13]. **banking** [Ano21b]. **barriers** [AHKL20, ALK⁺20, BDB⁺18]. **Base** [KL18]. **based** [AMH15, AAM⁺20, AIA20, AKM⁺21, ASACG13, ABQO14, ADFT16, AL15, AI21, Ano21v, APL⁺14, AYB⁺18, BMM19, BH16, BSEA14, BCD16, CDO⁺13, CS19, DRW14, DMT13, EKG18, EIA19, EMRF14, EKP18, FTW16, GLL⁺21, GGGBEM18, GP16, GA20, GEK14, GKHE18, dH13, IAA18b, JbAPT18, KMB17, KKT12, KÓ16, KHZ21, KKK⁺21, KST14, KFYI13, LmDVT⁺12, LGNEAO20, aRL21, MKA20, MPS⁺16, MA12, MCL⁺18, NHLTL17, NSDP15, OCCSBDBP20, PMT20, PCCP14, RLMC19, RCL19, SLHS18, SDWA20, SKWD15, SKTW14, SG20, SGD⁺13, TKS⁺14, UIK20, WSB14, YZT22, ZKK13, ZWY⁺20, ZLM⁺21, ZLW22, dSPF⁺12, dGNA⁺16, dGNFAT17]. **basic** [CMCG⁺12, MPM⁺20]. **Bayesian** [PGAP17]. **becoming** [IZJG18]. **BEFTIGRE** [CLAD17]. **behavior** [JMCC18]. **behavioral** [AHA17, GD21]. **Behaviour** [CLAD17]. **Behaviour-driven** [CLAD17]. **behaviours** [RGS20]. **being** [DT18, RGS20]. **benchmarking** [MA20]. **benchmarks** [BAAO⁺20]. **benefits** [JbAPT18, LMC16]. **best** [TUF20]. **better** [KL18, NXC13]. **between** [ASG18, AN17, DRM21, KJ14, KCH⁺17, KMH⁺15, LSBV16, LSBV17, MGW⁺17, SAPF22, WFB⁺18]. **beyond** [KPG14]. **bi** [SKWD15]. **bi-level** [SKWD15]. **Big** [SKR15, KKK⁺21]. **binary** [QSM15]. **Blended** [ÇD19]. **Blending** [NGAE22]. **bloater** [MPSM22]. **blockchain** [CPSGAA20]. **Blocks** [WPVS14]. **blueprint** [SSB⁺20]. **boolean** [PCL21]. **born** [CDR12]. **both** [GLL⁺21]. **bottlenecks** [PRNR14]. **bounds** [BGV18]. **BPaaS** [HMB22]. **BPM** [CV21, GCPM19]. **BPMN** [AYB⁺18]. **BPMN-based** [AYB⁺18]. **Brazil** [GdOK18]. **BS**

[GGGBEM18]. **BSCBAS** [dH13]. **Bug** [WL16, ATR⁺17, DRM21, NHLTL17, RHD⁺16, SBS20, SAK17, WWQ⁺21, WSB⁺21, ZTGG16]. **bug-assignment** [SBS20]. **bugs** [DRW14, KRR⁺16, XLWZ15]. **Build** [DBP22, NH14]. **building** [CKP15]. **bulk** [MA20]. **Business** [Kos21, ARD⁺12, CPMS⁺14, DMS12, GNIS18, HBG21, JMR18, LWY⁺16, NSBR12, PCCP14, PPdAPP21, RLR21, Sch12, SZ12, Stu12]. **bytecode** [PB17].

C [HD17, BGM20, GJ13, LSBV16, LSBV17]. **Can** [KMH⁺15, TPB⁺17, Kra13, PPdAPP21]. **capabilities** [FDM⁺18]. **capability** [Cao12, GdOK18, SG20, UC12, WCS14, SKTW14]. **care** [EKP18, PDP18, WFB⁺18]. **Case** [TGE17, AIA20, AY20, Ano21b, AN17, BLGZ18, BABW12, BCSS18, EKV15, GP13, HD17, HZ14, KFYI13, KO13, LSW13, MKA20, MGUA14, MPB16, MMPN20, MBMR19, NH14, OCCSBDBP20, PMT20, PCCRP21, PCMCAC14, RGS⁺15, RCL19, RMOP20, RBE⁺21, SDG21, TFAL21, TG20, TMDE21, VvV15]. **case-based-reasoning-based** [AIA20]. **cases** [GRK17, KMB17, PPPdG20]. **catalog** [PGCMA15]. **Category** [KL18]. **causes** [RF16]. **CC** [LSBV16, LSBV17]. **centered** [GD21]. **centric** [NBD17, WPXZ13]. **certification** [CPMS⁺14, KBM⁺12]. **Challenges** [AM20, CKR18, CdMSNdCM⁺14, IK17, SK18, AKKM20, Cap13, GFK⁺20, KHR18, KJ14, KHZ21, KKK⁺21, PUWS21, SKK⁺18, UWGP15, MVRP20]. **challenging** [KS20]. **Change** [PJW17, AMA⁺20, AKKM20, AMH⁺20, ASK⁺21, Ano21q, CMCg⁺12, CdMSNdCM⁺14, CS19, ETT⁺21, EAK13, Ghe17, HLP15, JGHA14, KGPH12, KA20, LHEG18, PHJ15, SSB⁺20, YZT22, ZHC⁺18, ZLW22]. **change-level** [ETT⁺21]. **change-prone** [EAK13]. **change-proneness** [ZHC⁺18, ZLW22]. **changes** [Bol13, CKS18, EAK13, ECRJVA⁺18, HCL⁺17, JRSS13, JPW⁺17, SAPF22, THP⁺16]. **changing** [HD17, RM22, Rya16]. **characterisation** [GCPM19]. **characteristics** [SVK⁺14, WSB⁺21]. **Characterizing** [SAEH16, TBP⁺17]. **check** [LP17]. **checking** [FHS13, LHA⁺16, NHLTL17, NL18]. **Choice** [KL18, NPLP12]. **Choosing** [PHJ15]. **class** [AI 15, MPSM22]. **Classes** [SVB⁺17, EAK13, SAC21]. **classical** [HD17, SKR15]. **Classification** [AJP14, GJC⁺18, NLNL20, RLMC19, ZTGG16]. **click** [IZJG18]. **click-fraud** [IZJG18]. **client** [AMA⁺20]. **client-vendor** [AMA⁺20]. **Clone** [CKS18, PTK13, BKZ13, GK13, Kos14, SSL15, SKR15]. **Cloned** [HG13]. **clones** [KR15]. **cloning** [PCP18]. **Cloud** [EKP18, PJW17, AKM⁺21, CLAD17, FHS13, KKK⁺21]. **Cloud-based** [EKP18, AKM⁺21]. **Cluster** [DMT13, KMB17, JMCC18]. **Cluster-based** [DMT13, KMB17]. **clustering** [AI21, AFK22, CKP15, LS19, PCCP14]. **clustering-based** [AI21]. **clusters** [SJG⁺14]. **CMMI** [GP13, GCMS14, RMOP20]. **CMMI-DEV** [RMOP20]. **Co** [dGNA⁺16]. **Co-located** [dGNA⁺16]. **coaching** [PL14]. **Coadapting** [KBHG17]. **COBOL** [HF12]. **Code** [ARSH16, KLG17, SVB⁺17, WPVS14, AVC20, AM16, BHLO16, BGM20, CLC14, DRGP13, GDJV18, HG13, HCL⁺17, JPW⁺17, KMH⁺15, LHEG18, MLM16, MdGC⁺17, NBCM17, OKÓ⁺17, PCP18, PB17, QSM15, QBO⁺13, RA15, SLHS18, SWT⁺16, San14, SAPF22, SLVOP18, SLL⁺21, SAK17, XBS⁺21, YYF⁺22, ZBGH22]. **coding** [HD17]. **coengineering** [TMDE21]. **coherence** [CNS14]. **cohesion** [AI 15]. **Cohesive** [KO13]. **collaboration** [RDD⁺12]. **Collaborative**

[MDSSMS15, DFGP18, JPW⁺17, KLC⁺14]. **collection** [KGW13]. **combination** [BJF12, ZHC⁺18]. **combinatorial** [PPPdG20]. **combined** [HD17]. **Combining** [CS13, ZTGG16]. **come** [RZL⁺15]. **commercial** [Dow14]. **commit** [BKS⁺17]. **commits** [GFKH18, TBP⁺17, WG18]. **communicated** [SJA⁺14]. **communication** [ECRJVA⁺18, NPLP12, PK14, RBE⁺21]. **communicators** [UWKRS21]. **communities** [RCO20]. **community** [EKP18]. **companies** [ALK⁺17, BO21, FDM⁺18, GP13, LCMCPA15, MPB16, ÖTM18]. **company** [GCMS14, MFA12]. **Comparative** [FZW⁺18, Nia15]. **Comparing** [BKS⁺17, DRW14]. **comparison** [AJP14, AG21, Ano21t]. **competence** [SRSEGA14]. **competences** [HLP15]. **compile** [TPB⁺17]. **complete** [TG20]. **Completion** [ARSH16, YYF⁺22]. **complex** [BM13, LSW13, WYW⁺13]. **compliance** [DMS12, NGAEE22, VMCN20]. **compliant** [Gal20, KK14, RFM16]. **component** [MA12, SP22]. **component-based** [MA12]. **components** [CMCG⁺12, NEU⁺19]. **Composing** [WL16]. **composite** [Ano21v, WRC⁺13]. **composition** [GJC⁺18, LM18, UTZ13]. **compositions** [AYB⁺18]. **comprehending** [ADFT16]. **Comprehension** [RBM16, BMC18, GAA18, PA16]. **comprehensive** [Ano21b, LLJ⁺14, MCL⁺18, SLVOP18, TNLJ⁺17, UWKRS21, WSB⁺21, MCSGBSA20]. **computations** [WZ17]. **computer** [MDSSMS15, RGS20]. **computing** [HMB22, KKK⁺21, LAF⁺18, NMA⁺17, Sir18]. **concentration** [BPKZ16]. **concept** [IK14]. **conceptual** [UWGP15, UGI⁺14, ZPFV14]. **Conceptualising** [KLWA20]. **concerns** [BCD16, CGN17, MBMCP18]. **Concrete** [BLGZ18]. **Conference** [CDF13, FKW13, OP14, PF18, PP14, BMCP14c]. **configuration** [BDGR12, NBD17]. **conflict** [WFB⁺18]. **conflicts** [DBP22]. **conformance** [FHS13]. **connected** [OFAT⁺18, CKR18]. **connections** [ASG18]. **consequences** [CCUP21]. **consistency** [HLWL15, LHA⁺16]. **consistent** [TMDE21]. **constraints** [KL18]. **construct** [AAA13]. **construction** [Ano21a, GDJV18, NBCM17, TKK⁺21]. **consultancy** [GCMS14]. **consultants** [GdOK18]. **consumer** [HB16]. **consumption** [AVC20, FAA⁺17]. **contagious** [MB17]. **content** [BCC⁺15, Cap13]. **Context** [ARSH16, HMB⁺18, SLHS18, EMRF14, LSFG20, PCP18]. **Context-based** [SLHS18]. **Context-dependent** [HMB⁺18]. **Context-sensitive** [ARSH16]. **context-specific** [EMRF14]. **Contextual** [CV21]. **Contextualizing** [Kru13]. **continuity** [PJW17]. **Continuous** [OEC17, PGAP17, RM22]. **contract** [AVC20]. **contributions** [LML⁺18]. **control** [ECRJFZ13, OCCSBDBP20, QSM15]. **controlled** [QBO⁺13]. **conversation** [BAAO⁺20]. **coordinated** [SR19]. **coordination** [SSM21]. **COQUALMO** [HBH12]. **corpus** [LSBV16, LSBV17]. **Correct** [GDJV18]. **Correct-by-construction** [GDJV18]. **correctness** [KKW18]. **correlation** [GWA15]. **Correlations** [LS19, CKP15]. **Corrigendum** [LSBV17]. **Cost** [SV20, KTYK16, NSDP15, PBSA17]. **Cost-driven** [SV20]. **cost-effective** [NSDP15]. **costs** [BGV18]. **coupling** [APL⁺14, CN12, KCH⁺17]. **Cover** [GS18a, Raj18a]. **coverage** [CS19]. **coverage-based** [CS19]. **Crafting** [Kuh15]. **CRAN** [MCSGBSA20]. **crash** [NHLTL17]. **Creating** [Sir18]. **Creation** [RFM16]. **crisis** [ZCL⁺18]. **criteria** [HB16, IAA18a, KKT12]. **criterion** [KL18]. **critical** [BZ21, CPR15, CPSGAA20, JN12, LYL⁺12,

MSBE20, SLMW21, Wal18]. **criticality** [DGVP21]. **cross** [CMQ⁺20, HH12]. **cross-project** [CMQ⁺20]. **cross-section** [HH12]. **crosscutting** [BCD16]. **crossroads** [ZRB⁺14]. **crowd** [CdSdAM16]. **CrowdRE** [KLWA20]. **CrowdRE-Arg** [KLWA20]. **Crowdsourcing** [ZKN⁺21]. **CSCW** [TNLJ⁺17]. **CSMR** [Ano13, FKW13, MC14]. **Cultural** [MVP12, BABW12]. **Current** [BCPM20b, KKT12, LM18, SN14]. **currently** [DT18]. **customer** [KJ14, KPG14, RMAB15]. **customized** [LMdVT⁺12]. **cyber** [BZ21, BGV18, BMS21, CYK20, GdSC21, MSBE20, PMT20, PDP18, RMP⁺20, TMDE21, ZIDM20, ZIDM21]. **cyber-physical** [BZ21, BGV18, BMS21, GdSC21, MSBE20, PMT20, PDP18, TMDE21]. **Cybersecurity** [Wal18, MBMCP18]. **cycle** [AÖAG16, Sch12, ZPW12]. **cycles** [Hou14, MPM⁺20].

Data [MA20, VBMH22, AIA20, Al 15, Ano21t, CYK20, CSGR17, GA20, KKK⁺21, KMH⁺15, LHEG18, RL14, Stu12, SKR15, ZPFV14, ZTGG16, CS13]. **Data-driven** [MA20]. **data-intensive** [ZPFV14]. **Database** [MAzGB18]. **databases** [PCdGCP13]. **datasets** [AHH17]. **De-motivators** [ASA⁺20, AAM⁺21]. **debt** [CWBC17, LSGF20, MB17, TFAL21, ZBGH22]. **debugging** [Ano21q, CS19]. **December** [LSBV17]. **decision** [Ano21v, El 18, FPA17, GP16, HB16, JMCC18, KS20, aRL21, dSLBF15, WKB⁺15]. **decision-making** [Ano21v, JMCC18, KS20]. **decision-support** [GP16]. **declarative** [ZPW12]. **decomposition** [SL20, VKPvV13]. **deep** [ZLM⁺21, ZLW22]. **deep-learning-based** [ZLM⁺21]. **Defect** [CPR15, Ano21u, CMQ⁺20, ETT⁺21, RLMC19, SLL⁺21]. **defective** [CMQ⁺20].

Defectivity [HBH12]. **defects** [HLWL15, JWP⁺16, KCH⁺17]. **define** [MA20]. **definition** [KPG14]. **delivery** [RGS⁺15]. **Delta** [AMH15]. **Delta-based** [AMH15]. **deltas** [DCVM20]. **demand** [HF12]. **demand-driven** [HF12]. **demonstration** [SGD⁺13]. **demonstration-based** [SGD⁺13]. **dependability** [ZWY⁺20]. **dependence** [DRW14, SJG⁺14, UY13]. **dependence-based** [DRW14]. **dependences** [APL⁺14, yCP12]. **dependencies** [BPKZ16, KMH⁺15, LHEG18, SS18]. **dependency** [Ano21q, BPKZ16, JbAPT18]. **dependent** [HMB⁺18]. **dephase** [JGHA14]. **deployed** [SPC16]. **Deployment** [ETT⁺21, NSBR12, PGM21, RGSR20]. **derivation** [OMTR12]. **Deriving** [Sha15]. **descriptions** [DS17, LLLW18]. **Design** [BCD14, BGM20, CsZZ⁺13, FMR13, WPVS14, BM13, BAAO⁺20, BCD13, FAA⁺17, NSBR12, OKÓ⁺17, PVA⁺21, PPdAPP21, RTCL16, SGSGYO19, SV21]. **detailed** [CPR15]. **detect** [DP15]. **Detecting** [ATR⁺17, BMZP14, JGHA14, CKS18]. **detection** [AAG21, BCD14, CS19, GK13, Kos14, MRJ20, MAMN19, PCL21, SSL15, SKR15, Wan21, WFB⁺18, ZPFV14]. **detectors** [SKR15]. **determining** [DRW14]. **DEV** [GP13, RMOP20]. **develop** [GJC⁺18]. **developer** [CSGR17, DRM21, KRR⁺16, TBP⁺17, WWQ⁺21]. **developer-related** [TBP⁺17]. **developers** [BCSS18, KGPH12, KTHS16, MGN18, WPXZ13, XLWZ15]. **Developing** [SV21, MMC14, NBF18, PKY14]. **Development** [LCM⁺15, LMC16, ASA⁺20, AY20, AHA17, AMH⁺20, ASK⁺21, AKM⁺21, AÖAG16, ASG18, AI21, Ano21b, Bab12, BM12a, BM13, BCC⁺15, BH16, BJBM21, Cao12, CN12, ÇD19, DT18, DHH⁺16, EIA19, FPA17, GS18b, GKS⁺12,

GD21, HD17, HGGASVD14, HLP15, HIA19, IAA18a, IAA18b, IK17, II17, JWP⁺¹⁶, KLC⁺¹⁴, KKN⁺¹⁹, KA20, KHZ21, KGW13, Kru13, LSW13, LMdVT⁺¹², LLLW18, MMK16, MKA20, MPS⁺¹⁶, MVRP20, MGUA14, MA20, MA12, NMA⁺¹⁷, NPLP12, ND20, ÖTM18, PL14, PBSA17, PRNR14, PK14, PUWS21, RGSR20, RCL19, RMOP20, RK18a, RK18b, RMCLGAM14, RFM16, SSM21, SK18, SRSEGA14, SKK⁺¹⁸, SAEH16, SLMW21, TGE17, TKK⁺²¹, TWFF18, TRC⁺¹⁷, THP13, TST17, VKC⁺²¹, WWQ⁺²¹, dSPF⁺¹², AL17]. **device** [CC13, LCM⁺¹⁵, LMC16, ÖTM18]. **DevOps** [ADH20, BEB21, EAD17, JbAPT18, KS20, RYA⁺²¹]. **diagram** [SNP22]. **diagrams** [GAA18, MMPN20]. **dictionary** [HBG21]. **differences** [KJ14]. **differencing** [DCVM20]. **different** [CMQ⁺²⁰, MPM⁺²⁰]. **differential** [BH16]. **Digital** [BO21, OB20]. **digitalization** [PPdAPP21]. **dimension** [GSB⁺²⁰]. **direct** [San14]. **directed** [NHLTL17]. **directions** [MGW⁺¹⁷, RPV12]. **Dirichlet** [EKG18]. **disasters** [McQ12]. **discipline** [GdSC21]. **Discovering** [yCP12, PJS⁺¹⁷, BSB16]. **discovery** [MLM16]. **discriminative** [HCL⁺¹⁷]. **disjunctive** [PCL21]. **Disruption** [OB20]. **distance** [Pri12]. **distinguished** [OP14, PP14]. **distributed** [BCSS18, FPA17, LMdVT⁺¹², Pri12, RBG15, SKK⁺¹⁸, THP13, UFF18, dSPF⁺¹², dGNA⁺¹⁶]. **distribution** [Ano21u, CN12, PBSA17, SP22]. **distrust** [PNL12]. **divergence** [MGW⁺¹⁷]. **diversity** [SVSC20]. **Do** [CMQ⁺²⁰, GWA15, LHEG18, DS17]. **documentation** [NSDP15, PJS⁺¹⁷]. **does** [GKS⁺¹², RZL⁺¹⁵, SWT⁺¹⁶]. **domain** [ATR⁺¹⁷, APL⁺¹⁴, BSEA14, BO21, JN12, KKN⁺¹⁹, MMC14, RPZ14, RLR21]. **domain-based** [APL⁺¹⁴]. **domains** [BMCP14b, DT18]. **down** [AAA13]. **drive** [NRB13]. **driven** [AMH15, Ano21p, BJF12, BCD14, CLAD17, De 16, DP15, GGPT12, HF12, HD17, MA20, PGM21, SZ12, SV20, WWKC18]. **driver** [CNPR13]. **drivers** [SSB⁺²⁰]. **DRIVES** [SSB⁺²⁰]. **DRIVES-EU** [SSB⁺²⁰]. **driving** [MKMW18]. **DSL** [BCD14]. **DSL-driven** [BCD14]. **Dthreads** [FZW⁺¹⁸]. **Dual** [XLWZ15]. **duplicate** [ATR⁺¹⁷]. **duration** [BEB21, Hou14]. **during** [CKG15, CKS18, ECRJVA⁺¹⁸, GJ13, HH12, PPdAPP21, SPC16]. **Dynamic** [Cao12, BCD16, CsZZ⁺¹³, GS12, HBH12, QVR⁺²¹, RPZ14, SAM13, WRC⁺¹³]. **Dynamics** [II17, dSLBF15].

each [Kra13]. **Early** [PRNR14, AN18, LHEG18]. **economical** [Pot16]. **Ecosystem** [BO18, MCSGBSA20, OB17, TFAL21]. **ecosystems** [AY20, DRM21, HB16, OB20]. **ECQA** [ISK15, KBM⁺¹²]. **editing** [ZKZH14]. **edition** [PF18]. **editor** [GW12, HAE14, HZR16, KLG17, RBM16]. **Editorial** [Ano13, BMP13, BMCP14a, BMCP14b, BMCP15, BMCP16, CDR17, CDF13, CLC14, CT13, FKW13, GW12, HOJ15, HAE14, HZR16, KÓ16, KLG17, KDK13, LP17, MC14, MAD12, MGW⁺¹⁷, MP16, PP14, RPZ14, RBM16]. **Editorials** [BM12b, BMCP14c, CDR12, NSBR12, RPV12]. **edits** [ZKK13]. **education** [Sir18]. **educational** [De 16]. **effect** [FAA⁺¹⁷, ZKZH14]. **effective** [EPG18, GJC⁺¹⁸, NSDP15, VvV15]. **effectiveness** [ASG18, AL15, HH12, RMOP20, VMCN20]. **Effectivity** [Pot16]. **efficiency** [JPvdW⁺¹⁷, LSW13, RMOP20]. **Efficient** [ARSH16, ACM⁺¹⁴, SSL15]. **Effort** [Ano21a, QB21, RCL19, TGE17, AL15, AI21, Ano21r, AN18, BCC⁺¹⁵, BH16, EIA19, GS18b, HOJ15, HIA19, IAA18a, IAA18b, KFYI13, LHA⁺¹⁶, MKA20, MA20, PBSA17, TUF20, vdGK12]. **electronic**

[OCCSBDBP20]. **electronics** [HB16].
elicitation
 [AL17, DFGP18, SDWA20, SL20].
Embedded
 [BSEA14, BO21, DT18, MPB16, OB20].
embedding [SLL⁺21]. **Embracing** [GJ13].
Emerging [BW18]. **Empirical** [ABG18,
 AAJE13, AAYK20, CAKA21, EIA19,
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 CO13, CWBC17, CV21, CNS14, FQA17,
 GFK⁺20, GdOK18, JPvdW⁺17, JRSS13,
 KRR⁺16, KA20, LMB12, LGS⁺17, LML⁺18,
 NXC13, NMA⁺17, PCP18, RHD⁺16, SS18,
 TBP⁺17, VMSH13, ZKZH14]. **employing**
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empowering [MMJB16]. **Enabling** [PB17].
enactment [THP⁺16]. **encapsulation**
 [Al 15]. **encryption** [LGNEAO20]. **Energy**
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Engineering [OP14, PMT20, PP14,
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 BDB⁺18, CKR18, GKHE18, GGPT12,
 GWA15, HBM⁺16, JW12, KÓ16, KFT14,
 LMB12, LP17, LFT19, LHIE18, MAD12,
 MBRM19, MPM⁺20, OEC17, OMTR12,
 PCCRP21, PNL12, Pri12, RPZ14, RPV12,
 RBE⁺21, RDD⁺12, RBG15, SKWD15, SL20,
 WKB⁺15, dGNFAT17, dSVB⁺22].
engineers [MVP12, PPdAPP21]. **engines**
 [MAzGB18]. **enhanced** [ZPW12].
Enhancing [Ano21b]. **ensemble** [Ano21t].
ensembles [Ano21r, HIA19]. **Ensuring**
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 ECRJFZ16, LCMCPA15, Pot16, SG20].
entities [HCL⁺17, MPS⁺16, MPM⁺20].
entrepreneurial [TWFF18]. **entropy**
 [EIA19]. **entropy-based** [EIA19].
Envelopment [CS13, Ano21t].
environment [AN17, SKK⁺18].
environmental [JMCC18]. **environments**
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 [BH16]. **Estimating** [AI21]. **estimation**
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 TGE17, TUF20]. **ETGM** [KRG⁺13].
ethical [RGSR20]. **ethics** [MdGC⁺17]. **EU**
 [SSB⁺20]. **European** [FKW13, CDF13].
EuroSPI [BMCP14c, AÖAG16, De 16,
 DHH⁺16, KTHS16, LSCP16, MPS⁺16,
 MMJB16, Pot16, RFM16, BMP13].
evaluate [FQA17]. **Evaluating** [HH12,
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Evaluation
 [VBMH22, WPVS14, AN18, Bab12, CLAD17,
 El 18, EIA19, ECRJFZ13, Gal20, HHW12,
 LmDvT⁺12, LB13, NSBR12, RMP⁺20,
 UGI⁺14, VMCN20, VMSH13, WCS14].
Event [BAAO⁺20]. **Event-B** [BAAO⁺20].
events [ZCL⁺18]. **evidence**
 [Ano21v, PA14, dSPF⁺12]. **evidence-based**
 [Ano21v, dSPF⁺12]. **Evolution**
 [CNPR13, KDK13, LLT20, MAzGB18,
 MCSGBSA20, PF18, QVR⁺21, TFAL21,
 AJP14, BZ21, BH16, BCD13, CDR12,
 CKG15, CS13, CKS18, CPSGAA20,
 GLL⁺20, GK13, GG14, GBRHO14, HH12,
 KRG⁺13, KKW18, LGS⁺17, LLLW18,
 MDV⁺18, MP16, NXC13, PTK13, RHL15,
 SJA⁺14, SR19, TWL⁺21, WYW⁺13].
evolution-based [BH16]. **evolutionary**
 [BPKZ16, Bol13, JPW⁺17, KRR⁺16,
 KCH⁺17]. **evolvability** [Raj18b]. **Evolving**
 [FDM⁺18, TP21, BCPM20a, HSvG17,
 HAS21, JWP⁺16, RPZ14]. **EXACT**
 [ADFT16]. **examination**
 [CO13, RGS⁺15, SS18]. **examining** [Pri12].
example [GKHE18]. **examples**
 [GRK17, GEK14]. **Excel** [AHH17, ADFT16].
executables [CsZZ⁺13]. **Execute** [SJG⁺14].
execution [AAA13, AM16, BJF12,
 CsZZ⁺13, MAD⁺14, SJA⁺14, UTZ13].

exhaustive [KGW13]. **Experience** [AÖAG16, BMP13, De 15, KK14, BRDL21, HOD⁺14, LSCP16, PMT20, SV20, TKS⁺14, TP21, WWKC18]. **experiences** [BMP13, BMCP14c, LS19, RBFM15]. **Experiment** [AL15, De 16]. **Experimentation** [FDM⁺18]. **experiments** [BAAO⁺20, QBO⁺13]. **expert** [MKA20, OCCSBDBP20, RHD⁺16]. **expert-based** [MKA20]. **experts** [GSB⁺20]. **explication** [HBH12]. **Exploiting** [SAK17]. **exploration** [ALK⁺20]. **explorative** [HLP15]. **exploratory** [Ano21c, MPSM22, MDV⁺18, Nia12, SGAP14, SJA⁺14, SKR15, WPXZ13, ZKJ12]. **explore** [RCO20]. **Exploring** [GFK⁺20, WKB⁺15]. **expressions** [PPPdG20]. **Extended** [LLJ⁺14, QSM15]. **Extending** [KL18, KPG14, MKMW18]. **extent** [CO13]. **external** [LML⁺18, SSM21]. **extracting** [KLWA20].

faced [BCPM20a]. **factors** [ASK⁺21, AKM⁺21, AN17, BABW12, BDB⁺18, CV21, ECRJFZ13, JMCC18, KHR18, KS20, Nia15, RK18b, TBP⁺17, WKB⁺15, Yag18]. **factory** [LSCP16]. **failure** [ZKK13]. **failure-inducing** [ZKK13]. **fair** [EKV15]. **fault** [AAYK20, CS19, LAF⁺18, LLJ⁺14, PCL21, PA16, SPC16, Wan21, ZLM⁺21]. **fault-prone** [AAYK20]. **faults** [Ano21q, BKZ13, DP15]. **FaultTracer** [ZKK13]. **Fear** [PNL12]. **feasibility** [KFT14]. **Feature** [DRGP13, Ano21r, BDGR12, EKG18, HZ14, HCL⁺17, LYL⁺12, LLLL21, MLM16, WPXZ13]. **features** [YYF⁺22, YZT22]. **feelings** [GWA15]. **FermaT** [PB17]. **fertilised** [BMCP15]. **few** [MA20]. **file** [RM22, ZKZH14]. **filter** [Ano21r, HIA19]. **financial** [VvV15]. **find** [BO18]. **Finding** [GJC⁺18]. **Findings** [SK18, CKP15]. **firefly** [KTYK16]. **Five** [Raj18b, CDR17]. **fix** [Hou14, TBP⁺17].

fix-inducing [TBP⁺17]. **fixing** [OKÓ⁺17]. **flexibility** [NBF18]. **flexible** [GNIS18]. **FlexParser** [RM22]. **FLOSS** [GBRHO14]. **flow** [QSM15]. **fluctuations** [PCMCAC14]. **focus** [TRC⁺17]. **focused** [KLC⁺14]. **focusing** [CMCG⁺12]. **forecasting** [Hou14]. **Foreword** [SA17]. **forges** [TP21]. **Formal** [BRDL21, BAAO⁺20, NL18, AMH15, BGM18, SLMW21, WZ17]. **Formalizing** [BDGR12, RRL22]. **formation** [AHKL20, ALK⁺20]. **formulas** [AHH17]. **Formulation** [NEU⁺19]. **forums** [KLWA20]. **forward** [ACM⁺14]. **FOSS** [DP15]. **four** [GS12, PBSA17]. **four-loop** [GS12]. **four-stage** [PBSA17]. **fragmentation** [CSGR17]. **Framework** [SS18, AMH15, AAM⁺20, AAM⁺21, AKM⁺21, AHKL20, Bab12, BCC⁺15, BLGZ18, Bor16, ECRJFZ13, KLWA20, KHZ21, KO13, LS14, LCM⁺15, LMC16, LB13, MMK16, NMA20, NBF18, OKA14, PKY14, RMCLGAM14, SDWA20, TGE17, TNLJ⁺17, UWGP15, UGI⁺14, ZIDM20, TST17]. **Framing** [PA16]. **fraud** [IZJG18]. **full** [CLAD17]. **full-tier** [CLAD17]. **functional** [GNIS18, LGNEAO20, LLT20, MBMCP18, SL20]. **functions** [LSBV16, LSBV17, QSM15]. **Further** [ZBGH22]. **Future** [MGW⁺17, EAK13, McQ12, MKMW18]. **Fuzzy** [AIA20, ASK⁺21, AI21, El 18, HIA19, KKK⁺21, Yag18]. **fuzzy-TOPSIS** [KKK⁺21].

game [PVA⁺21]. **gamification** [AM20]. **genealogies** [BKZ13]. **generalized** [Hou14]. **generate** [GA20]. **generating** [LSRT16]. **generation** [HBG21, MMPN20, NRB13, PPPdG20, UIK20, XBS⁺21]. **generator** [BGM20]. **geographic** [CN12]. **German** [PBDJ16]. **getting** [GKS⁺12]. **GitHub** [GFKH18, LML⁺18, ZWW⁺20]. **GLOB** [NMA20]. **Global** [JW12, MVRP20, AMA⁺20, AMH⁺20,

ASK⁺²¹, Bab12, BJBM21, CN12, GKS⁺¹², HLP15, IK17, II17, JWP⁺¹⁶, KKN⁺¹⁹, KA20, KHZ21, LMB12, MAD12, NMA⁺¹⁷, NMA20, NPLP12, PL14, PNL12, Pri12, RK18a, RPV12, RMCLGAM14, SRSEGA14, UWGP15, dGNFAT17, AL17]. **globally** [BCSS18, Pri12, THP13]. **go** [dSVB⁺²²]. **goal** [GLL⁺²⁰, PGM21, SZ12]. **goal-driven** [PGM21, SZ12]. **Goals** [PUWS21]. **Going** [OB20]. **good** [NEU⁺¹⁹]. **Governance** [ISK15, MVRP20, PPdAPP21]. **grammar** [AHH17]. **graph** [BCD14, CKP15, YYF⁺²²]. **graphs** [QSM15]. **GreCo** [MdGC⁺¹⁷]. **Green** [MdGC⁺¹⁷, CLAD17, RK18a, RK18b, SK18, CV21, GCPM19]. **greenness** [MAzGB18]. **Group** [RMOP20, ASG18, MPB16]. **Grouping** [JMCC18]. **groupware** [Bab12]. **groupware-supported** [Bab12]. **growth** [Ano21q, CS19, FDM⁺¹⁸, HSvG17]. **GSD** [AKKM20, IK17, MVP12, RK18b]. **GSEPIM** [KKN⁺¹⁹]. **guardian** [KKW18]. **Guest** [CLC14, GW12, HZR16, KLG17, MC14, RBM16]. **GUI** [AMB18, San14]. **guide** [MPM⁺²⁰]. **guided** [LLLW18]. **Guidelines** [SBS20].

handling [SN14, VvV14]. **hands** [Bor16]. **hands-on** [Bor16]. **hardware** [OCCSBDP20]. **hardware-in-the-loop** [OCCSBDP20]. **hashing** [Kos14]. **HCI** [GdOK18]. **Health** [BNBA21, RGSR20, OFAT⁺¹⁸, PDP18, RLMC19, CKR18]. **healthiness** [BZ21]. **help** [PPdAPP21]. **hemodialysis** [LHR18]. **heuristic** [GA20]. **hierarchy** [AKKM20, ASK⁺²¹, AKM⁺²¹, KS20, KHZ21, SKK⁺¹⁸]. **High** [GCMS14, BW18, HMMR18]. **High-maturity** [GCMS14]. **higher** [BPKZ16]. **highly** [TUF20]. **historical** [EAK13]. **history** [OKA14]. **hoc** [OB17]. **homogeneous** [Ano21r, AFK22, HIA19]. **Horizontal** [HZ14, UC12]. **human** [ABG18, WPXZ13]. **human-centric**

[WPXZ13]. **Hybrid** [BHZK12, HAS21, ADH20, FPA17, JMR18, ÖTM18, PUWS21, SGAP14, TKK⁺²¹]. **hyperheuristic** [BLGZ18].

I/O [BMZP14]. **ICONIX** [LLT20]. **ICPC** [RBM16]. **ICSM** [CT13]. **ICSSP** [HAS21, KOPR17, PKBT16, RPZ14]. **idea** [NRB13]. **Identification** [KKK⁺²¹, Ano21v, HCL⁺¹⁷, LMdVT⁺¹², PRNR14, RAS⁺¹³]. **identifier** [GDAG13]. **identify** [CMQ⁺²⁰]. **Identifying** [CKP15, GFKH18, KKT12, QSM15, SVB⁺¹⁷, ND20]. **IEC** [LSCP16, MFA12, MM14, MPM⁺²⁰, PHJ15, RFM16, SGSGYO19, TKS⁺¹⁴, VNMI14, WCS14]. **IEEE** [PF18]. **II** [GS12]. **Image** [GS18a, Raj18a, XBS⁺²¹]. **image2emmet** [XBS⁺²¹]. **imbalanced** [Ano21u]. **Impact** [EKG18, SJG⁺¹⁴, BL15, BABW12, CN12, HLWL15, LHEG18, PJ16, SWT⁺¹⁶, SVSC20, SS18, TWL⁺²¹]. **impacts** [PCP18]. **imperfect** [Ano21q, CS19]. **implementation** [AMA⁺²⁰, CsZZ⁺¹³, FMC⁺¹⁵, KK14, LCMCPA15, Nia12, Nia15, RYA⁺²¹, SGSGYO19, SS18, SDWA20]. **implementations** [MPM⁺²⁰]. **Implementing** [PVA⁺²¹, SDG21, AÖAG16]. **implications** [HSvG17, WCS14]. **improve** [AMA⁺²⁰, DCVM20, McQ12, RMAB15, VKPvV13]. **improved** [ARD⁺¹², PCMCAC14, SDWA20, SAK17]. **Improvement** [BM12b, BMCP16, GSB⁺²⁰, AM20, ABG18, BMP13, BMCP14a, BMCP14b, BMCP15, BCPM19, CKMN15, CMCG⁺¹², CKP15, CG14, CCUP21, CO13, CPMS⁺¹⁴, ECRJFZ13, GPM⁺¹², GP13, HHW12, KK14, KKT12, KKN⁺¹⁹, KJS⁺¹³, Kuh15, MBMCP18, MM14, Nia12, Nia15, NEU⁺¹⁹, OKA14, PGAP17, PSMM19, RAS⁺¹³, RMP⁺²⁰, SSA15, SG20, TGE17]. **Improving** [BM12a, BM13, CDO⁺¹³, LYL⁺¹², THP13, VvV14, ZLM⁺²¹, dH13, Kos21, MMK16, UFF18]. **imputation**

[AIA20, IAA18b]. **incident** [VvV14, VvV15]. **incomplete** [AIA20]. **inconsistent** [CKS18]. **Increasing** [LSW13]. **Incremental** [Kos13, GK13]. **indexed** [LLLL21]. **indexing** [CDO⁺13]. **India** [ŠW12]. **Indian** [CCUP21, SG20]. **indicators** [GKS⁺12]. **individual** [JMCC18]. **inducing** [TBP⁺17, ZKK13]. **Industrial** [BMP13, AY20, BMCP14c, ETT⁺21, KCH⁺17, LSW13, LS14, PCCRP21, RL14, SK18]. **industry** [BCPM20a, CCUP21, CWBC17, GFK⁺20, MDSSMS15, MAL⁺13, NGvD13, NRB13, RBE⁺21, SSA15, SSB⁺20]. **industry-academia** [RBE⁺21]. **infer** [MBMR19]. **inference** [WWQ⁺21]. **influence** [ECRJFZ13, RTCL16]. **informing** [JMCC18]. **informal** [DMS12]. **Information** [Ano14a, Ano14b, Ano14c, Ano14d, Ano14e, Ano14f, Ano14g, Ano14h, Ano14i, Ano14j, Ano14k, Ano14l, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano19a, Ano19b, Ano19c, Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano22a]. **Information** [Ano22b, Ano22c, Ano22d, VvV15, WL16, CG14, LHIE18, PCCRP21, RGSR20, SJA⁺14, VvV14]. **informed** [Gal20]. **infrastructure** [HOD⁺14]. **infrastructures** [FHS13]. **inhibitors** [SS18]. **initiatives** [CPSGAA20, KKT12, SS18]. **Innovation** [BMCP16, BCPM19, MBMCP18, NRB13, RDD⁺12]. **insertion** [PCL21]. **inspection** [CKS18, EMRF14, MFCP14]. **INSPEX** [BRDL21]. **instructions** [Bor16]. **Integrated** [HBM⁺16, BM13, BMM19, ISK15, RDD⁺12]. **Integrating** [EMRF14, KTYK16, THP⁺16, VNM14]. **Integration** [SKTW14, SGSGYO19, vdGK12, IK17, KLC⁺14, SG20, WG18]. **Integration-based** [SKTW14, SG20]. **integration-focused** [KLC⁺14]. **intelligence** [MSK18]. **intensive** [AAA13, KGW13, OB20, ZPFV14]. **intentional** [NBD17]. **inter** [Kos14, MPB16]. **inter-group** [MPB16]. **inter-system** [Kos14]. **interaction** [CSGR17, MPB16, MMPN20, San14, WWQ⁺21]. **interactions** [DRM21, ECRJVA⁺18]. **interactive** [BDGR12]. **interest** [MB17]. **interface** [LLLL21, XBS⁺21]. **Internal** [LML⁺18]. **International** [KDK13]. **Internet** [BNBA21, IZJG18]. **interpretation** [NSDD17]. **interpretive** [AHKL20]. **interprocedural** [yCP12]. **interrupts** [KTHS16]. **introducing** [OKÓ⁺17]. **Introduction** [BMC18, FKW13, GGPT12, KÓ16, KOPR17, MP16, PKBT16, GW12, HAE14, HZR16, KLG17, RBM16, Wan21]. **Investigating** [DGVP21, FAA⁺17, SVSC20, JWP⁺16]. **investigation** [CPR15, JRSS13, KRR⁺16, KA20, LML⁺18, PBSA17, ZBGH22]. **Involving** [Lin15]. **IR** [CDO⁺13]. **IR-based** [CDO⁺13]. **ISO** [ADCG12, BMM19, FMC⁺15, IK14, KO13, LSCP16, MPS⁺16, MFA12, MM14, MPM⁺20, PHJ15, SGSGYO19, TKS⁺14, WCS14]. **ISO/IEC** [LSCP16, MFA12, MM14, MPM⁺20, PHJ15, SGSGYO19, TKS⁺14, WCS14]. **Issue** [Ano14a, Ano14b, Ano14c, Ano14d, Ano14e, Ano14f, Ano14g, Ano14h, Ano14i, Ano14j, Ano14k, Ano14l, Ano15a, Ano15b, Ano15c,

Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano19a, Ano19b, Ano19c, Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano22a]. **Issue** [Ano22b, Ano22c, Ano22d, BMP13, FKW13, KLG17, KOPR17, PKBT16, RBM16, Ano13, BMC18, CKR18, CLC14, HAS21, KÓ16, KDK13, MC14, MAD12, MP16, NSBR12, PP14, RPZ14, SA17]. **issues** [DGVP21, LM18, MVP12, SN14]. **IT-supported** [NRB13]. **items** [ZBGH22]. **iterative** [HBM⁺16]. **ITIL** [LCMCPA15]. **ITMark** [LSCP16]. **IWSC'13** [KR15].

Java [AAYK20, LSBV16, LSBV17, SAC21, TFPB14]. **JavaScript** [NSDD17, SVB⁺17]. **joint** [PGM21, RBE⁺21]. **journal** [CDR12, PF18]. **Jsvce** [Sir18]. **just** [HZ14]. **just-in-time** [HZ14].

Kanban [ALK⁺17, SDG21]. **KASL** [GS12]. **KASL-II** [GS12]. **Kelmu** [Sir18]. **kernel** [NH14]. **kernels** [WYW⁺13]. **key** [Yag18]. **know** [GKS⁺12]. **Knowledge** [BABW12, PPdAPP21, ATR⁺17, AJP14, CdSdAM16, CCUP21, CPMS⁺14, CNS14, CNPR13, GS12, LLLL21, NEU⁺19, RCO20, RHD⁺16].

label [MAD⁺14]. **Labelling** [ZCL⁺18]. **Language** [BZ21, dGNA⁺16, SNP22]. **languages** [Ano21p]. **LAPPI** [RAS⁺13]. **Large** [Kos14, ASA⁺20, AHH17, AAA13, DRM21, KHR18, KCH⁺17, KRG⁺13, LSBV16, LSBV17, MPB16, PRNR14, Pot16, SSM21, SSL15, SJA⁺14, TUF20, WKB⁺15].

Large-scale [Kos14, ASA⁺20, SSM21, WKB⁺15]. **late** [BKZ13]. **latent** [EKG18]. **law** [SP22]. **laws** [GBRHO14, GG14]. **Layer** [OB17]. **LDA** [BHLO16]. **lead** [WKB⁺15]. **leakage** [LHA⁺16]. **Lean** [PSMM19, SSA15, ALK⁺17, RL14]. **learn** [Kra13]. **learned** [BMCP16, CRP14, MFA12, MMJB16, NGvD13, RGS⁺15, RBFM15, ŠW12, VKPvV13]. **Learning** [Ost14, GS12, LMB12, NLNL20, SLL⁺21, SAC21, YZT22, ZLM⁺21, ZLW22]. **Legacy** [SVB⁺17, BCSS18, HF12, PCdGCP13]. **Lehman** [GG14]. **Lessons** [MFA12, MMJB16, ŠW12, BMCP16, CRP14, NGvD13, RGS⁺15, RBFM15, VKPvV13]. **Level** [RMOP20, ETT⁺21, SKWD15, TST17, UIK20]. **levels** [GCMS14]. **leverage** [NRB13]. **leveraged** [BMCP14b]. **LHV** [Ano21b]. **library** [TFPB14]. **life** [AÖAG16, MPM⁺20, SDWA20, Sch12, ZPW12]. **life-cycle** [ZPW12]. **lifecycle** [NSBR12]. **lifetime** [Ano21s, BPKZ16]. **light** [RAS⁺13]. **light-weight** [RAS⁺13]. **lightweight** [CC13]. **limit** [CLMZ13]. **line** [HOD⁺14, KFT16, LHIE18, NBD17, OMTR12]. **linear** [AL15]. **lines** [BSEA14, BSB16, CGN17, Gal20, QVR⁺21]. **linguistic** [MVP12]. **Linux** [NH14, WYW⁺13, WG18]. **literal** [PCL21]. **Literature** [NBF18, AAG21, AHC21, BNBA21, BGM18, BDB⁺18, JbAPT18, KA20, PDP18, RL15, SK18, SSB⁺20, VKC⁺21, ZKN⁺21]. **lived** [GBRHO14]. **LLP** [RGS⁺15]. **local** [AAYK20]. **Localization** [WL16, LLJ⁺14, PA16, SAK17, ZLM⁺21]. **localizing** [ZKK13]. **located** [dGNA⁺16]. **location** [DRGP13, EKG18, WPXZ13]. **locators** [LSRT16]. **Log** [VBMH22, RM22, Sha15]. **logging** [Ano21c]. **logistics** [KO13]. **logs** [UTZ13]. **long**

[GBRHO14, HSvG17]. **long-lived** [GBRHO14]. **long-term** [HSvG17]. **lookup** [WSB14]. **loop** [GS12, OCCSBDBP20].

machine [LHR18, NLNL20, SAC21]. **Machines** [BGM20]. **maintainability** [ASACG13, LSW13]. **Maintenance** [FKW13, WRC⁺13, Ano13, CDF13, CLMZ13, KFYI13, MP16, PRGP12, SGD⁺13, TWL⁺21, UWGP15]. **Make** [SBPS12, LYL⁺12]. **making** [Ano21v, JMCC18, KS20, aRL21]. **Malaysian** [ABG18]. **malware** [MDV⁺18]. **manage** [IK14]. **management** [AAM⁺20, ASA⁺20, ALK⁺17, AMA⁺20, AKKM20, AMH⁺20, ASK⁺21, Ano21t, BHZK12, BCC⁺15, BMM19, CYK20, CG14, EKP18, GGPT12, HMB22, ISK15, KA20, KJS⁺13, Kos21, KST14, Lin15, MMK16, MMJB16, MM14, MPM⁺20, NRB13, NMA20, OB17, ZCL⁺18, dSPF⁺12]. **manager** [KBM⁺12]. **Managing** [AY20, GPM⁺12, HMMR18, JRSS13, LSFG20, UWGP15]. **manifesto** [KBM⁺12, GSB⁺20]. **Manipulation** [KLG17, CLC14]. **map** [KGW13]. **mapping** [CdMSNdCM⁺14, CAKA21, KPG14, KFT14, LLSA22, LHIE18, MMPN20, MdlIRT19, RRDPD⁺13, TWL⁺21, ZIDM21, dSPF⁺12, dSVB⁺22]. **MapReduce** [MdlIRT19]. **market** [GGPT12, HGGASVD14]. **market-driven** [GGPT12]. **Markovian** [BEB21]. **mass** [HGGASVD14]. **mass-market** [HGGASVD14]. **matching** [BCD14]. **matter** [GKS⁺12, GWA15]. **Maturity** [CG14, KJ14, SKTW14, ASG18, GdOK18, GGPT12, GGJ20, GCMS14, HHW12, Kos21, PPdAPP21, RMOP20, SVK⁺14, SG20, TST17]. **MDE** [ABQO14]. **MDE-based** [ABQO14]. **MDevSPICE(R)** [LCM⁺15, LMC16]. **mean** [RL14]. **Meaningful** [WPVS14, BGV18]. **means** [CS13, LSCP16]. **Measurement** [ADCG12, Al 15, KO13, RLTTTC14]. **measures** [LLT20, LLJ⁺14, MV14]. **Measuring** [SG20]. **mechanism** [RCO20, RMP⁺20]. **mechanisms** [LGNEAO20]. **mechatronic** [BM12a]. **media** [CPMS⁺14, NPLP12]. **medical** [BGM18, CC13, Kra13, LCM⁺15, LMC16, MMK16, MMC14, ÖTM18, PK14, TRC⁺17, WFB⁺18]. **MedITNet** [MMK16]. **medium** [Abu16, ABG18, CG14, LCMCPA15, SG20]. **medium-sized** [LCMCPA15]. **Merge** [WG18]. **Merge-Tree** [WG18]. **Meta** [Sch12, AHA17, RRDPD⁺13]. **meta-model** [AHA17, RRDPD⁺13]. **Meta-service** [Sch12]. **metamodel** [SNP22]. **Method** [WPVS14, Abu16, AL17, AAYK20, AFK22, AN17, CC13, DMS12, DHH⁺16, GA20, HB16, JWP⁺16, KMH⁺15, KFT14, MV14, RLR21, SPC16, SZ12, SAEH16, SR19, UWKRS21]. **Methodological** [RMCLGAM14]. **methodologies** [ASA⁺20, NGAE22, UFF18]. **Methodology** [CMCG⁺12, BCC⁺15, FPA17, KST14, PRGP12]. **methods** [AG21, AAJE13, BRDL21, BGM18, CMQ⁺20, El 18, FQA17, HHW12, LSBV16, LSBV17, PJS⁺17, QBO⁺13, RGS⁺15, RK18b, SAC21, TKK⁺21, ZWW⁺20, ZKN⁺21, ZHC⁺18]. **Metrics** [Bol13, VKC⁺21, AVC20, CS13, EAK13, KFYI13, MRJ20, MAL⁺13, PGAP17, SVSC20, Sha15, SAEH16, SAC21]. **Mexican** [ECRJFZ16]. **Micro** [KFYI13, FMR13]. **micro-structures** [FMR13]. **microservices** [OEC17]. **migrating** [FHS13]. **migration** [NGvD13, RL14, RL15, SV20]. **migrations** [TFPB14]. **milestone** [ZWW⁺20]. **minds** [RTCL16]. **mined** [LLLL21]. **Mining** [BCD16, GRK17, yCP12, JGHA14, JPW⁺17, PJS⁺17, RA15, SKTW14, UTZ13, ZTGG16]. **minority** [Ano21u]. **Misaligned** [LFT19]. **mission** [CPR15]. **mission-critical** [CPR15]. **mitigation** [BJBM21, ZIDM20]. **mixed** [Ano21t, HMB⁺18, ZWW⁺20].

mixed-methods [ZWW⁺20]. **ML** [GCMS14]. **ML-5** [GCMS14]. **Mobile** [PKY14, TRC⁺17, AMB18, CLAD17, LGS⁺17, UIK20]. **Model** [GEK14, GKHE18, OB17, SKWD15, AMH15, AHA17, AMH⁺20, ASACG13, Ano21p, Ano21q, BDGR12, BMM19, BH16, BSEA14, BJF12, ÇD19, DP15, FTW16, GLL⁺20, GGBEM18, GS12, GdSC21, GJC⁺18, GdOK18, GGPT12, GD21, HD17, Hou14, LMdVT⁺12, dSLBF15, MBMR19, MFCP14, MAMN19, NHLTL17, NL18, OMTR12, PGCMA15, PBSA17, RYA⁺21, RCL19, RF16, RRL22, SRSEGA14, SLVOP18, SVK⁺14, SSA15, SG20, SGD⁺13, SG17, TST17, UIK20, Wan21, WWKC18, dSPF⁺12, RRD⁺13, SKTW14]. **model-based** [BSEA14, GGBEM18, UIK20]. **model-driven** [AMH15, Ano21p, BJF12, DP15, HD17]. **modeler** [PJ16]. **Modeling** [MGUA14, AAM⁺21, Ano21p, BHZK12, BJF12, GGBEM18, JMR18, MCL⁺18, PJ16, RAS⁺13, RMAB15, SS18, TNLJ⁺17, ZKJ12, ZWK18, ZWY⁺20]. **Modell** [KFT16]. **modelling** [AHKL20, CS19, FZW⁺18, PMT20, RLR21]. **models** [ABB14, AG21, Ano21t, DS17, HAN18, HHW12, KTYK16, KLC⁺14, NL18, PJW17, PCCRP21, RRD⁺13, VMSH13, ZKJ12]. **modern** [KJS⁺13]. **modernization** [PCdGCP13]. **modification** [HAN18]. **modularization** [DMT13]. **modules** [AFK22, BPKZ16, CMQ⁺20]. **monitoring** [AYB⁺18, LWY⁺16]. **Motivators** [NMA⁺17, ASA⁺20, KA20, AAM⁺21]. **moving** [AL15]. **MPT** [SLL⁺21]. **MPT-embedding** [SLL⁺21]. **Multi** [Ano21q, AFK22, BCSS18, GKHE18, HB16, KK14, OKÓ⁺17, UC12, UWKRS21]. **multi-case** [BCSS18]. **multi-criteria** [HB16]. **multi-method** [UWKRS21].

multi-objective [GKHE18, OKÓ⁺17]. **multi-sourcing** [UC12]. **multi-standard** [KK14]. **Multi-upgradation** [Ano21q]. **multicase** [BO21]. **Multicloud** [LM18]. **Multicriteria** [El 18, KS20, aRL21]. **multidimension** [KBHG17]. **multilevel** [VMSH13]. **multimodel** [KKT12, LS14]. **multiobjective** [KRR⁺16]. **multiplatform** [SR19]. **multiple** [BM12a, MPB16]. **multisourcing** [SK18]. **multisystem** [DRM21]. **multivocal** [AMA⁺20]. **mutants** [NLNL20].

NasBASE [KÓ16]. **natural** [dGNA⁺16]. **natural-language** [dGNA⁺16]. **nature** [CN12]. **navigability** [VMSH13]. **need** [DS17]. **needs** [MDSSMS15, RDD⁺12]. **net** [SNP22]. **nets** [BEB21]. **Network** [MCSGBSA20, AHC21, JbAPT18, KTYK16, WYW⁺13]. **networks** [MMK16, PGAP17, VvV15, dSVB⁺22]. **neural** [HMB22, KTYK16, YYF⁺22, dSVB⁺22]. **next** [RPV12, dSVB⁺22]. **no** [CKMN15]. **non** [BEB21]. **non-Markovian** [BEB21]. **nonfunctional** [SGD⁺13]. **nonlinear** [Wan21]. **nonradial** [Ano21t]. **nonterminating** [WZ17]. **normalization** [BL15]. **Norway** [SDWA20]. **Norway-based** [SDWA20]. **noun** [CDO⁺13]. **noun-based** [CDO⁺13]. **nuclear** [VNM14].

O [BMZP14]. **obfuscation** [SWT⁺16]. **object** [Al 15, EAK13, JWP⁺16, KRG⁺13]. **object-oriented** [Al 15, EAK13, JWP⁺16, KRG⁺13]. **Objective** [De 16, AFK22, GKHE18, KRR⁺16, OKÓ⁺17]. **Objective-driven** [De 16]. **offshoring** [BABW12]. **Onboarding** [BCSS18]. **Online** [BGV18, FDM⁺18]. **Ontology** [PCCP14, AAM⁺20]. **Ontology-based** [PCCP14, AAM⁺20]. **Open**

[Wan21, Ano21s, Cap13, DRM21, HZ14, KFYI13, LGS⁺17, NXC13, QB21, RCO20]. **open-source** [Ano21s, LGS⁺17, NXC13]. **OpenPPM** [MMJB16]. **operation** [NSBR12]. **operations** [KFT16]. **operator** [ZCL⁺18]. **operators** [PGM21]. **opportunities** [Cap13, CdMSNdCM⁺14, MRJ20]. **optimization** [NSDP15, WSB14]. **optimization-based** [NSDP15, WSB14]. **optimizing** [HMMR18]. **oracled** [PPPdG20]. **order** [SAK17]. **ordinal** [MV14]. **organization** [NBF18, RMOP20, WWKC18]. **organizations** [BMM19, ÇD19, ECRJFZ13, ECRJFZ16, dH13, KHR18, LFT19, PRGP12, RYA⁺21]. **oriented** [ARD⁺12, Al 15, AAJE13, BHZK12, EAK13, Gal20, JWP⁺16, JMR18, KRG⁺13, RLR21, SV21, UC12, WPXZ13, WRC⁺13, ZWK18]. **origins** [DRW14]. **osmosis** [LMB12]. **other** [Kra13]. **outcome** [WKB⁺15]. **outsourced** [CRP14]. **outsourcing** [AKM⁺21, AHKL20, ALK⁺20, EKV15, UC12]. **over-sampling** [Ano21u]. **Owners** [UWKRS21].

package [MCSGBSA20]. **packages** [CKP15, RMCLGAM14, SVSC20]. **Pakistan** [SSA15]. **PAM** [Abu16]. **Papers** [BMP13, CDF13, KDK13, OP14, PP14]. **parallel** [AMB18, LWY⁺16, SSL15]. **parser** [RM22]. **Parsing** [AHH17]. **partially** [CRP14]. **Partition** [KL18]. **partnership** [AHKL20, ALK⁺20]. **past** [McQ12]. **pathways** [WFB⁺18]. **Pattern** [ZPFV14, ZWY⁺20, BCD14]. **Pattern-based** [ZWY⁺20]. **patterns** [FAA⁺17, FMR13, HAN18, JGHA14, JPW⁺17, MGUA14, OKÓ⁺17, PVA⁺21, RRL22, SGSGYO19, UTZ13, ZKZH14]. **payment** [EKV15]. **people** [KJS⁺13]. **perceived** [Pri12]. **Perceptions** [VBMH22, PJ16]. **perform** [WPXZ13].

performance [BMZP14, CV21, EKP18, dH13, LB13, OCCSBDBP20, PMT20, PJ16, RF16, UIK20, VvV14]. **performance-based** [PMT20]. **personal** [RF16]. **personality** [AY20]. **perspective** [ASA⁺20, BPKZ16, GGJ20, KPG14, Lin15, OEC17, SVK⁺14, WYW⁺13]. **perspectives** [BCPM20b]. **Petri** [BEB21, SNP22]. **phase** [Ano21a, IK14]. **phases** [LSFG20, LLT20, PBSA17]. **phenomenon** [MB17]. **physical** [BZ21, BGV18, BMS21, CYK20, GdSC21, MSBE20, PMT20, PDP18, RMP⁺20, TMDE21, ZIDM20, ZIDM21]. **PI** [NEU⁺19]. **picture** [UWKRS21]. **pilot** [ADH20, GSB⁺20]. **placement** [MSK18]. **plan** [RFM16]. **planning** [ASG18, KO13]. **plans** [PCMCAC14]. **platform** [BM12a]. **platforms** [FHS13, ZKN⁺21]. **PLC** [LSFG20]. **PLM** [GGGBEM18]. **PMBOK(R)** [MM14]. **point** [Ano21q, CS19]. **points** [AN17, BCC⁺15, MKA20]. **policy** [AYB⁺18]. **popularity** [SVSC20]. **portfolio** [ALK⁺17]. **porting** [SR19]. **possible** [KJ14]. **post** [BKS⁺17]. **post-commit** [BKS⁺17]. **power** [SP22]. **Practical** [BGV18, RAS⁺13, RBFM15]. **practice** [EAD17, GGGBEM18, GdOK18, MGW⁺17, OKA14, PA14, SKTW14, SZ12, UWKRS21]. **Practices** [KHR18, BABW12, CWBC17, HGGASVD14, JW12, MPS⁺16, MGUA14, MMC14, RK18a, SSA15, TWFF18]. **Practitioner** [ALK⁺20]. **practitioner** [DS17]. **Pragmatic** [AM16]. **pragmatism** [LP17]. **pre** [BKS⁺17]. **pre-commit** [BKS⁺17]. **Pred** [IAA18a]. **predict** [EAK13]. **Predicting** [Ano21s, APL⁺14, SAC21]. **prediction** [AG21, Ano21a, Ano21u, BEB21, CMQ⁺20, ETT⁺21, LHEG18, SLL⁺21, YZT22, ZHC⁺18, ZLW22]. **predictions** [KTYK16]. **Predictive** [HMB22]. **predictors** [TUF20]. **Preface** [KR15]. **prefactoring** [SLHS18]. **preprocessor** [GJ13]. **presence** [SJG⁺14].

principle [SKTW14]. **prioritization** [BLGZ18, KMB17, KHZ21, KKK⁺21, LYL⁺12]. **prioritize** [ASK⁺21, SLHS18]. **Prioritizing** [SKK⁺18, Yag18]. **proactive** [RCO20]. **probabilistic** [NL18]. **probability** [CS19]. **problems** [KJ14, KKT12, MVP12, RF16]. **Process** [BM12b, BMCP15, BMCP16, GSB⁺20, Jun12, PK14, RDD⁺12, RRD⁺13, SKTW14, SZ12, VBMH22, Abu16, AMA⁺20, AKKM20, ASK⁺21, AKM⁺21, ABB14, ABQO14, AM20, ADH20, ABG18, Bab12, BHZK12, BMM19, BKS⁺17, BJF12, BMP13, BMCP14a, BMCP14b, BCPM19, BCPM20b, BSB16, CKMN15, CMCG⁺12, CKP15, CG14, CCUP21, CO13, CLMZ13, CNS14, De 15, De 16, DMS12, DS17, Dow14, ECRJFZ13, Gal20, GGGBEM18, GPM⁺12, GP16, GP13, GdOK18, GGPT12, HAN18, HD17, HHW12, HLWL15, JMR18, JN12, KK14, KLC⁺14, KKT12, KKN⁺19, KS20, KA20, KHZ21, KBHG17, KJS⁺13, Kos21, Kuh15, KFT16, KFYI13, LCM⁺15, LMC16, LYL⁺12, LHA⁺16, Lin15, aRL21, LLT20, MBMCP18, MV14, MA12, Nia12, Nia15, NEU⁺19, NSBR12, OMTR12, OKA14, PCCP14, PJ16, PSMM19, RAS⁺13, RMAB15, RF16, RLR21, SDWA20, SGSGYO19, SL20]. **process** [Sch12, SN14, SV21, SGAP14, SKK⁺18, SG20, SBPS12, Stu12, THP⁺16, UC12, VMCN20, WCS14, WPXZ13, WWQ⁺21, ZKJ12, ZRB⁺14, ZWK18, ZWY⁺20, PF18, CDR12]. **process-based** [KHZ21]. **process-oriented** [SV21, UC12, WPXZ13]. **processes** [ARD⁺12, BSEA14, CRP14, DMT13, DHH⁺16, EMRF14, GNIS18, HAS21, LWY⁺16, Ost14, RPZ14, RMAB15, Rya16, THP13, ZPW12]. **product** [BSEA14, CGN17, GGPT12, HOD⁺14, HBH12, JPvdW⁺17, LHIE18, NBD17, OMTR12, PBDJ16, QVR⁺21, RDD⁺12, UWKRS21]. **production** [NSDP15, SPC16, TMDE21]. **productivity** [AN17, AN18, GWA15, HOJ15]. **products** [BPKZ16, KGW13, ŠW12]. **profile** [MCL⁺18, MPM⁺20]. **profiling** [HBH12]. **Program** [GAA18, RBM16, BMC18, KK14, KFYI13, MM14, PA16, San14, Sir18, WZ17, WSB14, ZKK13]. **programme** [MFA12]. **programming** [AAJE13, yCP12, LLLL21]. **programs** [MdlRT19]. **progressive** [PBSA17]. **Project** [AN18, AHA17, ADH20, Ano21a, Ano21t, AN17, CMQ⁺20, Dow14, GBRHO14, MGUA14, MMJB16, MM14, NMA20, PCP18, PCMCAC14, Pri12, RGS⁺15, RBE⁺21, SDWA20, SSB⁺20, dSPF⁺12]. **projects** [AAM⁺20, AHA17, Ano21s, BM12a, BCSS18, CKMN15, Cap13, CN12, DFGP18, GKS⁺12, JWP⁺16, JMCC18, LMdVT⁺12, dSLBF15, NPLP12, PGAP17, PPdAPP21, PNL12, QB21, RCL19, SSM21, SAC21, Yag18, dSVB⁺22]. **PROMETHEE** [El 18]. **promotion** [TWFF18]. **prone** [AAYK20, EAK13]. **proneness** [ZHC⁺18, ZLW22]. **propagation** [BKZ13]. **properties** [KBHG17, SGD⁺13]. **property** [CNS14]. **Propinquity** [Pri12]. **Proposal** [OKA14]. **proposed** [PGCMA15, SDWA20]. **prospective** [AMA⁺20]. **prospects** [MCSGBSA20]. **Protecting** [IZJG18, KKW18]. **protocols** [BAAO⁺20]. **provenance** [BNBA21]. **provide** [UWKRS21]. **provider** [VvV15]. **proximity** [SAK17]. **Pthreads** [FZW⁺18]. **published** [LSBV17]. **pull** [Ano21s]. **Purity** [NSDD17]. **Python** [TFAL21]. **qualitative** [EAD17, LHR18]. **Quality** [GKS⁺12, RMP⁺20, CN12, GLL⁺21, HBH12, JWP⁺16, LML⁺18, MRJ20, MDV⁺18, MAL⁺13, NBD17, Pot16, SSA15, UFF18, VMSH13, WWKC18, ZKZH14]. **quality-centric** [NBD17]. **quantification** [ADCG12]. **Quantifying** [EKV15, Bol13, EAK13]. **Quantitative** [Ano21t, Gal20, LHR18]. **quantum** [HMB22]. **questions** [Ano21c].

R [MCSGSA20, Bor16, vdGK12]. **R/3** [vdGK12]. **radial** [Ano21t]. **radius** [Ano21u]. **radius-synthetic** [Ano21u]. **ranking** [SVSC20]. **rate** [HSvG17]. **rating** [DGVP21, Jun12]. **re** [SG17, BCD13]. **re-assessing** [SG17]. **readability** [SLVOP18]. **Readiness** [AMH⁺20, RYA⁺21, NMA20, SG20]. **real** [BO21, SDWA20]. **real-life** [SDWA20]. **Reality** [LP17]. **realize** [DHH⁺16]. **Realizing** [NGvD13]. **really** [GKS⁺12]. **reasoning** [AIA20]. **recognition** [GDAG13]. **recommend** [CdSdAM16]. **recommendation** [GLL⁺21, LLLL21, OKÓ⁺17, WWQ⁺21]. **recommendations** [Raj18b]. **recommending** [XLWZ15]. **reconfiguration** [HMB⁺18]. **record** [AM16]. **recovered** [DMT13]. **recovering** [PCdGCP13]. **recovery** [BCD13, CDO⁺13, QBO⁺13, ZPFV14]. **reduce** [KTHS16]. **Reengineering** [FKW13, Ano13, CDF13]. **Refactoring** [KTHS16, AAJE13, CKS18, GJ13, GEK14, GKHE18, MRJ20, MAMN19, OKÓ⁺17]. **refactorings** [CKS18]. **refinement** [DFGP18]. **Reflecting** [NPLP12]. **reflections** [BABW12, RTCL16]. **reflexion** [Kos13]. **Regression** [UY13, AMH15, AL15, IAA18b, KMB17]. **regression-based** [IAA18b]. **regressions** [BMZP14]. **regular** [PPPdG20]. **regulated** [DT18]. **relate** [MAD⁺14]. **related** [TBP⁺17]. **relating** [RGS⁺15]. **relation** [DRM21, SAPF22]. **relations** [DGVP21]. **relationship** [AN17, KCH⁺17, LSBV16, LSBV17]. **relative** [BPKZ16]. **releases** [JPvdW⁺17]. **relevance** [HCL⁺17]. **relevant** [PJS⁺17, ZCL⁺18]. **reliability** [Ano21q, CS19, KHZ21, Wan21]. **reliable** [BW18]. **remediation** [TFAL21]. **repair** [WWQ⁺21]. **repeat** [DRM21]. **replay** [AM16]. **replicated** [FQA17]. **Report** [TKS⁺14, AÖAG16, KK14, PMT20, SV20, TP21, WWKC18, ZTGG16]. **reported** [DGVP21]. **reports** [ATR⁺17, RHD⁺16]. **repositories** [AIA20, CdMSNdCM⁺14, JGHA14, TUF20]. **representation** [SLL⁺21]. **representatives** [PJ16]. **reproduction** [NHLTL17]. **request** [CdMSNdCM⁺14]. **requests** [Ano21s, HZ14, KGPH12]. **required** [LP17]. **Requirement** [AKKM20, ASK⁺21, AÖAG16, VMCN20, ZWK18]. **requirement-oriented** [ZWK18]. **Requirements** [DFGP18, ARD⁺12, AMA⁺20, AMH⁺20, ASACG13, AL17, AHC21, BCPM20a, CKG15, GGPT12, HZ14, HBM⁺16, JRSS13, JN12, KLWA20, KA20, KST14, KMH⁺15, LHA⁺16, OFAT⁺18, PGCMA15, PVA⁺21, SDWA20, SL20, TNLJ⁺17, WCS14, WKB⁺15, dGNA⁺16, dGNFAT17]. **resampling** [ZLM⁺21, ZHC⁺18]. **Research** [RPV12, Ano21v, CDF13, CKR18, DFGP18, Dow14, MGW⁺17, RBE⁺21, SBS20, SV21, UWKRS21, WWKC18]. **research-driven** [WWKC18]. **residual** [HLWL15]. **Resilient** [LAF⁺18]. **resistance** [CMCG⁺12]. **resolution** [DRM21]. **resolve** [XLWZ15]. **resolving** [VvV15]. **resource** [AVC20]. **resources** [HMMR18]. **responsibility** [MSB⁺14]. **restructuring** [MPSM22]. **restructurings** [NBCM17]. **Results** [BMCP16, BDB⁺18, HSvG17, LSCP16, RM22, dSPF⁺12]. **retention** [RCO20]. **retrieval** [SAK17]. **retrospective** [CDR17, CDF13, EPG18, HBH12, Kuh15]. **reusable** [MGUA14]. **reuse** [AJP14, ADH20, AM16, PGCMA15, RCL19, SG17, dGNA⁺16, dGNFAT17]. **reuse-based** [dGNA⁺16, dGNFAT17]. **Reusing** [HAN18]. **Reverse** [OP14, PP14, GAA18, MBMR19, QSM15, PCCRP21]. **reverse-engineered** [GAA18]. **review** [AAG21, AJP14, AHC21, BNBA21, BGM18, BDB⁺18, CPSGAA20, GAA18, HHW12,

JbAPT18, JW12, KKT12, KA20, MKA20, NBF18, PTK13, PDP18, RA15, RL15, RBG15, SK18, SSB⁺20, VKC⁺21, ZKN⁺21]. **Reviewer** [Ano17m]. **reviews** [BKS⁺17, GLL⁺20, LLLW18]. **rewards** [SV21]. **Rich** [WL16]. **rigorous** [SLMW21]. **risk** [AAM⁺20, BMM19, BJB21, HMMR18, ISK15, LMdVT⁺12, Lin15, dSLBF15, MMK16, ZIDM20]. **Risks** [BJBM21, Nia12, ZIDM21]. **roadmap** [Ano21v, CKR18, FMC⁺15, JPvdW⁺17, KKN⁺19]. **Robula** [LSRT16]. **robust** [AKM⁺21, LSRT16]. **role** [BCD16]. **role-based** [BCD16]. **root** [RF16]. **ROS** [LGNEAO20, LAF⁺18]. **ROS-based** [LGNEAO20]. **Rule** [KST14, LMdVT⁺12, OCCSBDBP20]. **Rule-based** [KST14, LMdVT⁺12, OCCSBDBP20]. **rules** [yCP12, DMS12, HBG21, PJW17]. **run** [THP⁺16]. **run-time** [THP⁺16]. **runs** [SPC16]. **runtime** [SPC16].

S# [LHR18]. **SaaS** [MSK18]. **Safe** [BMS21, BW18, TMDE21]. **safety** [BM13, Gal20, GNIS18, JN12, LGNEAO20, LHR18, MBMCP18, MSBE20, PGM21, RGS20, VMCN20, Wal18]. **safety-critical** [JN12, MSBE20, Wal18]. **safety-oriented** [Gal20]. **same** [ADCG12, CMQ⁺20]. **sampling** [Ano21u]. **SANER** [SA17]. **SAP** [vdGK12]. **Savalan** [AFK22]. **scalable** [ACM⁺14, BAAO⁺20]. **scale** [ASA⁺20, Kos14, PRNR14, SSM21, SSL15, WKB⁺15]. **scaled** [TST17, TST17]. **Scaling** [KHR18, AAM⁺21]. **SCAM** [KLG17, CLC14]. **SCAN** [MAD⁺14]. **scenarios** [ISK15]. **schema** [ZPFV14]. **scheme** [KBM⁺12]. **science** [MDSSMS15, SV21]. **Scorecard** [dH13]. **Scorecard-based** [dH13]. **scripted** [SGAP14]. **SCRUM** [SDWA20, ÇD19, GP13, PGAP17, PCMCAC14]. **Search** [FTW16, GEK14, GKHE18, KÓ16,

SKWD15]. **Search-based** [FTW16, GEK14, KÓ16, SKWD15]. **Searching** [CdSdAM16]. **section** [CT13, HH12, KR15]. **sector** [Ano21b, KO13, SSB⁺20]. **secure** [BW18, BMS21]. **Security** [AYB⁺18, BNBA21, CYK20, MSBE20, MSK18, ZIDM21, CG14, Gal20, GLL⁺21, GNIS18, KKK⁺21, LSFG20, PGM21, UFF18, WSB⁺21, ZIDM20]. **Security-** [MSBE20]. **Security-aware** [MSK18]. **security-informed** [Gal20]. **Segmentation** [WPVS14]. **segments** [MAD⁺14]. **Selected** [BMP13, MBMCP18, KDK13]. **Selecting** [TUF20]. **selection** [Ano21r, CDF13, KMB17, aRL21, MLM16, OP14, PP14, UC12, UY13]. **self** [GWA15, MKMW18]. **self-assessed** [GWA15]. **self-driving** [MKMW18]. **semantic** [Ano21c, Ano21p, KKW18, YYF⁺22, YZT22]. **semantics** [WZ17]. **sensitive** [ARSH16]. **sensitivity** [Jun12, LHA⁺16]. **sentence** [MLM16]. **sequence** [GAA18, LCMCPA15, SNP22, YYF⁺22]. **series** [HH12, RHL15]. **Service** [BMCP16, UC12, ARD⁺12, AMB18, Ano21p, AYB⁺18, BCPM19, KO13, LM18, MBMCP18, MKMW18, NGvD13, RLR21, Sch12, UTZ13, VvV15, WRC⁺13]. **service-oriented** [ARD⁺12, RLR21]. **Services** [BM12b, ARD⁺12, BH16, EKP18, PCdGCP13, PGM21]. **set** [LHEG18]. **setting** [ETT⁺21, HD17]. **settings** [HLP15, LS19]. **SFLA** [GA20]. **SFLA-based** [GA20]. **shared** [BMCP14c]. **sharing** [BABW12, CCUP21, GS12, LHEG18, VvV15]. **similar** [SBPS12]. **Similarities** [Cap13]. **similarity** [PCCP14]. **Simple** [ARSH16]. **Simplified** [YZT22, MFCP14, PB17]. **Simplifying** [NBCM17]. **Simulation** [CLMZ13, BHZK12, BKS⁺17, GP16, OCCSBDBP20, ZRB⁺14]. **simulator** [MVP12]. **since** [OKA14]. **single**

[KRR⁺16]. **single-objective** [KRR⁺16]. **sites** [AHC21]. **situation** [PKY14]. **situation-aware** [PKY14]. **size** [LLT20]. **sized** [LCMCPA15]. **sizes** [SP22]. **Skills** [SRSEGA14, ISK15, MDSSMS15, RDD⁺12, TWFF18]. **slicing** [ACM⁺14, HF12, KFYI13, WZ17]. **SLOC** [LSBV16, LSBV17]. **SLR** [ASA⁺20, KKK⁺21]. **small** [Abu16, ABG18, CG14, ECRJFZ13, ECRJFZ16, GPM⁺12, LS19, LCMCPA15, MPS⁺16, MPM⁺20, PRGP12, SG20]. **smaller** [BPKZ16]. **smart** [AVC20, PKY14]. **SME** [BABW12]. **smell** [AAG21, MRJ20, RA15]. **smells** [MAMN19, OKO⁺17, SLHS18, SAPF22]. **SMEs** [Abu16, CO13, SS18]. **Snapshot** [BMCP14c, TPB⁺17]. **SOA** [RL15]. **Social** [AHC21, MSB⁺14, AY20, CPMS⁺14, ECRJVA⁺18, NMA⁺17]. **sociocultural** [GSB⁺20]. **Software** [AAG21, AL17, Ano21u, BM12b, BMCP14b, BMCP16, DS17, FKW13, HOJ15, IK17, aRL21, MPS⁺16, McQ12, MAL⁺13, PF18, PCdGCP13, PDP18, PBDJ16, Rya16, TFAL21, VBMH22, WWKC18, ZRB⁺14, ZHC⁺18, ZLW22, AAM⁺20, AIA20, ASA⁺20, ARD⁺12, ATR⁺17, ALK⁺17, AY20, AHA17, AMH⁺20, ASK⁺21, AKM⁺21, AÖAG16, ASG18, ABB14, AM20, AHKL20, ADH20, ALK⁺20, AG21, ABG18, AL15, AI21, Ano13, Ano21b, Ano21a, Ano21q, Ano21t, Ano21v, AFK22, AAA13, AN18, Bab12, BW18, BM12a, BHZK12, BH16, BJB21, BSEA14, BPKZ16, BMP13, BMCP14a, BCPM19, BCPM20a, BCPM20b, BSB16, BGM18, Bor16, BDB⁺18, BCSS18, Cao12, CDF13, CDO⁺13, CKR18, CPR15, CC13, CN12, CdMSNdCM⁺14, ÇD19, CAKA21, CKG15, CS19, CS13, CKS18, CGN17, CCUP21, CO13, CLMZ13, Dow14, ETT⁺21, EIA19, EAK13, ECRJFZ13, ECRJFZ16]. **software** [FDM⁺18, FQA17, FPA17, FHS13, GPM⁺12, GP16, GFK⁺20, GP13, GS18b, GA20, GKHE18, Ghe17, GJC⁺18, GdOK18, GBRHO14, GKS⁺12, GWA15, GD21, HAN18, HH12, dH13, HB16, HSvG17, HAS21, HLP15, HBM⁺16, HIA19, HLWL15, HCL⁺17, IAA18a, IAA18b, II17, JGHA14, JWP⁺16, JPvdW⁺17, JW12, JMCC18, JN12, KGPH12, KTYK16, KKT12, KO16, KKN⁺19, KA20, KHZ21, KGW13, KCH⁺17, KR15, Kos21, KRG⁺13, Kru13, Kuh15, KFT16, KFYI13, KO13, LSW13, LMB12, LP17, LMdVT⁺12, LCMCPA15, LFT19, LCM⁺15, LMC16, LYL⁺12, LLSA22, Lin15, LLLW18, LHEG18, dSLBF15, LHIE18, MKA20, MVRP20, MGUA14, MPB16, MBMCP18, MMC14, MDSSMS15, MGN18, MAD12, MFCP14, MA20, MP16, MAMN19, MPM⁺20, NXC13, Nia12, Nia15, NMA⁺17, NSDP15, NPLP12, ND20, NBF18, OEC17, OMTR12, OKA14, OB20, Ost14, ÖTM18]. **software** [PL14, PGCMA15, PJW17, PA14, PBSA17, PKY14, PRNR14, PPdAPP21, PRGP12, PNL12, PK14, PSMM19, PUWS21, Pri12, QVR⁺21, RPZ14, RYA⁺21, RLMC19, Raj18b, RCL19, RMOP20, RMAB15, RK18a, RK18b, RCO20, RF16, RTCL16, RPV12, RBE⁺21, RBG15, RLTTTC14, RMCLGAM14, RHL15, RFM16, SSM21, SDWA20, SKWD15, SVSC20, SK18, SRSEGA14, SKTW14, SGSGYO19, SAM13, SPC16, SSA15, SKK⁺18, SJA⁺14, SS18, SP22, SAEH16, SLL⁺21, SG20, ŠW12, SV20, SBPS12, SAC21, SG17, TP21, TGE17, TUF20, TWL⁺21, TWFF18, THP⁺16, THP13, UWGP15, VKPvV13, VKC⁺21, Wan21, Yag18, YZT22, ZKJ12, ZKZH14, ZWK18, ZWY⁺20, dSPF⁺12, dGNFAT17, dSVB⁺22, GSB⁺20, HOD⁺14, OCCSBDBP20, RRD⁺13, CDR12]. **software-intensive** [AAA13, OB20]. **solution** [ETT⁺21, GGGBEM18]. **solutions** [BW18, CdSdAM16, KJ14, KKT12, MVRP20, UWGP15]. **Source** [BHLO16, AVC20, Ano21s, AM16, Cap13, CLC14, DRM21, DRGP13, HZ14, KMH⁺15,

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