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Concurrency and Computation: Practice and
Experience: 2000–2019

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Title word cross-reference

$(\alpha, k)$ [LXW17]. $(PU)^2 M^2$ [CSL+18]. 0 [SSIH19]. 1 [SSIH19, VDL+15].
16×16 [TPGC15]. 2 [CCW06, PDC16]. 2pq [CL14]. 3
[ACIC+13, Boc19, CSMK19, CPE+19, DCG11, EMEY14, KSM++08a, MBP16,
MCY+07, MJL01, OLG+15, PSLC11, PSCK+15, QSZL18, RWK17, TTR++10,
WSZ+18, YBC+07, ZLKK17]. 5 [AVS+19]. 2 [YNX+16]. $TM$ [YLD10, ZJKL10].
n [LSP15]. $TP$ [LTK17]. c [HW16]. $\ell$ [DHV03]. G(d) [WCA08]. K
[LFZ07, SS19c, DHV03, GR13, KH12, PGL+17, TLX+17, XLL+18]. $\leftrightarrow$
[GRW+19]. LU [DFL14]. N
[BDH15, CGK14, GGV14, SSB+14, TL14, AS15, LLRS19, PGL+17, PDCA17].
s [PGL+17]. t [HJM+11]. $t/k$ [XYL18]. $x$ [IR11].

-anonymity [LXW17]. -ary [PGL+17]. -body
[CGK14, GGV14, SSB+14, TL14]. -Cube [AS15]. -D [ZLKK17].
-dimensional [AVS+19]. -direct [PGL+17]. -gram [PDCA17]. -indirect
[PGL+17]. -level [ZLKK17]. -mean [HW16]. -means [TLX+17, SS19c].
-me [GR13]. -nearest [KH12]. -of- [LLRS19]. -out-of- [DVH03]. -private

.NET [BHW05, HLB10, LHB+19].

/OpenMP [VDL+15].

1 [RMP+13a]. 1.1 [OA02]. 1.2 [CG01]. 1.3 [MP04]. 10th [Kni06, WT15].
128-processor [LL01], 12th [Fox17a]. 1394 [HON04]. 14th [GJ17]. 1516
[MP04]. 15th [GZX17]. 1605 [ANO06]. 17th [PCC17], 1940
[DKMM14].

2 [BS04, BB13, BÇG14, JL10, LXW+16, LSK04]. 2.0
[CBHTE11, DWM09, DH15, FP09, LYN+12, MLW+15, PFC+09, ZL09, Zic12].
2.0-based [MLW+15]. 2.2 [HRR+11]. 2000 [LL01, LSK04, PIH+04, Wis02].
[BL09b, NCD+08]. 2009 [BL11a, SHT11]. 2010 [BL11b, Bou13, HTBR12].
2011 [BL13b]. 2012 [BL13a, HTW14, Hou12, QFG14]. 2013
[AF14, LBW14, PDD14, WDJK15, WT15]. 2014
[Du18c, OJK18, SG19]. 2018 [Wu18]. 21st [BHJ+16]. 21st-century
[BHJ+16]. 2D [ZZZ+15]. 2D-DWT [ZZZ+15]. 2nd [FZ08].

3.0 [DBB+16]. 30.7 [SLM+10]. 369 [GKS09]. 3D [SL14, Che18, LXW+16].
3G [KCS07]. 3rd [CC09].

4.0 [JCP15]. 40 [DAC+18].

5G [GLL16].

6 [OCC+05]. 6.1 [ZMJZ10]. 6.2 [ZMJZ10]. 600 [LSK04]. 6LoWPAN
[BNNH19]. 6th [Run10].

77 [AL04].

8 [KS19c, SAD+16]. 802.11s [BOB13]. 802.21 [WCL12]. 8th [LB19].

90 [FSPC+02]. 90/HPF [FSPC+02]. 95 [vWAH+02]. ’99 [TM01]. 9th
[WCWB19].

A-LDA [GLD17]. A2 [FNBS16]. AAA [BT18, MML+17]. AAA-based
[MML+17].AAAA [WBB+07]. AAH [GQR16]. ABC [BPL12]. ABC-GA
abnormal [GBXL17, SRR19]. abnormality [LFW19]. abort [ASP19]. ABS [SAdB+16]. absorption [WWY19]. abstract [AHM06, CTY15, DWC09]. abstraction [IAH+15, JMF09, LFG05, OKW18, WP12]. abstractions [VS02, VFAD18]. Accelerate [YXLZ16, FBV+13, MTHK14, TSL+19]. accelerated [ANPR16, BDW14, CGK+16, CMMB13, CP14, DCD+14, IOOH12, JLH+16, LZF+17b, LS15, MCB14, MPSGD14, NSN+17, PGdCJ+18, QX+17, RK15, SBC15, TDM+15, TPT+18, ZWL+17, ADK+16]. Accelerating [AdCPdSD17, BKLH09, DFTHD18, DMC+18, DCK12, EDB+14, GC19, KHF+17, LL16a, MKO+17b, NNH+14, PRCV16, PSV19, RCA+11, SJISVR17, SNK+15, TB12, WKB+19, ZCD+12, BP17, CCO15a, ISO+14, PPdSTB17, SAD13, SIOS02]. Acceleration [ZO14, ABG+13, BYDC19, KC13, KPNS18, PZ11, ZAB+19]. Accelerator [PSS+19]. accelerators [ADF+13, BKSM+15, BHKW12, CGST17, HJBN12, HCKF15, SRF13, YOBS16]. accelerometers [ZZL+18]. acceptance [ALL+15, HLA+18]. Access [AK01, RCB+04, SW11, AFGL09, ATKH+17, AC02, AV07, AAF+07, BDI+07, BHA+15b, CSL08, CJC+18, CLH+16, DFC12, DKMV07, GvHKK11, GBSHA01, JSR+19a, JSG17, KKDS19, KFS+06, LZW13, LLLS18, LCMY13, MLL+11, MTGZ17, MCB14, MD02, OTG+07, RR01, Sch04, SKNH09, SS07, SW12, SCLK15, TYHL12, sTzNL16, WLW11, WYBS16, WFKS18, XHH12, YBO10, ZYN+07, ZWX16b, ZLL+18]. Access-controlled [RCB+04]. accesses [LPC+14, NPL19]. accessible [OK15]. Accessing [GKP+09, Wit10]. account [RSPV17, VS19]. Accounting [GEJ+08, HGT14, MAS+14, SAC+07]. accounts [WBB+07]. accumulator [LZY+16]. accumulator-based [LZY+16]. accuracy [DFLL14, EMEY14, QLZX19, TLM17]. Accurate [BCK+09, GW15, SM19a, WLF19, Xu19, AAF+07, FOTW04, GQR16, HTWW19, KDI9, MCC16, TCP+05, VB16]. accurately [VSC17]. ACES [Run10]. achieve [CAG+13, PQP13, YLLZ09]. Achieving [CLW+19, CBPP02, DP03, DFLL14, SSZ13, WLW11, ZYN+07, XTLG08]. ACID [CEMR19]. ACM [Fox01, Fox05]. acoustic [MS07, OFR+17]. ACPI [XR+17]. ACPI-compliant [XR+17]. Acquisition [SZD19, CMCAA17, CL19]. across [AAE+09, BPdM06, CC15, XLQL18]. action [KS19a, WGO+18]. Active [PLL14, RM11, ZHTO8, ZTGW17, BDP18, DT17, Pun01, SM04, XM02, ZLO6]. ActiveSpaces [DZJ+15]. activities [SR19c, WWL+17b]. activity [BFH17, BDMM+05, GQR16, Yu18]. actor [BAT13, CWM18]. actuator [ZCJX17]. acyclic [AS17]. ad [CNPP09, Den07, DK19a, DA15, EB10, HA+15, HIB15, KOO12, KKK10, KABD07, MTM19, MSMA19, MLRR09, PY19, QWW+16, Sha15, SK17, WXSH19, YWM+10]. ad-hoc [Den07, DK19a, HIB15, KABD07, MTM19, PY19]. ADAGE [YR15]. adaptability [DTi15a, SPSnS07, ZBZH11]. Adaptable [CZL+17, dRL10, ML19a, PGO+04]. Adaptation
Adapting [LBTE14, ZYH09, KL02]. Adaptive [AWR17, ADF+19, dOCPFJ13, CZG16, EME19, FN17, GVC10, GLS+19, KR06, LPS+09, LGQ+17, LCW+17, LFW19, LMY13, PGK11, PCD15, RHRB13, SZ18, TCBR+10, WML+19, AR16, BJ01, BCD+02, BB12, BVB19, BM08, BFVRC15, CEMR19, CRB09, CLL+19, CCW+16, GvDHS12, HKRR08, HHKA14, JN03, JyLdZ+18, KW19b, KFD18, LLMM19, LSJ16, LC18, LB11, MB18, MV16, Nak02, NC05, RHBK11, SGD+18, SYMA17, SWD+17, SG18, VB16, WCR+14, WLW03a, XYSW18, YCL11, YLD13, YYLC19, YESG+17b, YESG+17a, YESG+19, ZH15, ZCXH17, dOOO+12].


Adjusting [YYCH10, JKZ03, YC10]. adjustment [SWS+18, ZWL+19]. adjustment-based [SWS+18]. administrative [Kri19]. admission [DMA13, XCL09, ZCC+06]. Adolescent [CS09]. adoption [HLX+16, HSV+19]. advance [ET09]. Advanced [FR02, Fox12, LBFS17, MCAB+02, NC05, SRdS09, SF10, AP06, DN19, FSPC+02, Fer15, LAC+08, LL13, QLL10, SSU18, SE01, Xha18].

Advancements [MRJ+14]. Advances [Ano15a, BCX15, BLXE19, DSH18, MLY10, NPM19, PIGK16, SFN12, XCHY14, XHZ12, XHY13, Zha08, BBM19, DM15, DL17, LMH+14, LL15, LNBL17, MPSGD14, Not16a, PZO19, QD17, RS13, SPSB19, SRTG+07, WS17, WS19b, YMLR16].

[BDZ19]. AL [CZQ17]. AL-DDCNN [CZQ17]. Alamos [WJLD09], alarm [WML+19]. Alchemist [GRW+19]. alert [RCM12, WZXZ12]. alerting [VZB19]. algebra [ADI+14, BHI+09, BJI+16, BLL18, CGGH17, HLYD12, KLD10, PHCR09, SD15, SLB08, SB17]. Algebraic [BFK+17, BDE+19, ODS+13]. algebras [CMD11]. algebraic [MQOQOH01]. algorithm [AA16, AS17, ACGG06, ACCM17, BYD19, Bao19, BKH08, BY12, BKND16, BDF15, BT04, BDH16, CHP17, CSMS+19, CMMB13, CCW+15, CEM+17, CDF+17, DCJ12, DHV03, DS19, DCCZ18, DPS07, DLM13, Du18b, Du18a, EN19, EB18, EN16, FH13, FTT15, GZG+16, GCWE15, GRQ19a, GLZ19, GM04, Guo19, GAS19, Has17, HZH09, HSL19, HBD18, HaV13, HW16, JC07, JLH+16, JLL18, JSR19b, JKV+15, KBD19, KA16, KH12, KHH13, KKW+14, KYB17, KT19c, LLMM19, LZZ+17, Li04, LC09, LDZ14b, LH17, LXYC17, LHJ18, LWZ+19, LWSZ19, LYT19b, LLH+15, LVC16, LZF17, LC18, LMX+18, LHZX19, LWP19, LZZ+15, LLQ14, MS17c, MT19b, MKKB04, MCCD18, MLRR09, MLYL17, MDL+10, MNL15, NIU17, OAS+15, PLY13, PN19, PWH18, PCF+17, PCT04, PSCK+15, PV15, PZ17, QSZL18, QLZX19, QW17, RP19, RNJ17, Ree01, RSM01, RVVPD+17, RIWS17, SR19a, SAB15]. algorithm [SJVR15, SAD13, SBC15, SS15a, SMM18, SIS19, SZ18, SR17, SDSL18, SG18, SZD19, SM19c, TIZ16, TNB17, TJ17b, TJ17a, TYL+15, TLX+17, TJ+17, TRW07, Viv03, WBD+19, WLLL15, WBZ10, WJ12, WJD13, WCR+14, WZS+15, WJY16, Wan18a, WF18, WZL18, Wan18b, WLF19, cWsThY19, WW19, WZLQ16, WLL03a, WLL03b, WRDZ13, WZYG19, XYL18, XLG19, XMI17, YGW17, YWL+17a, YWLQ18, Yan19a, YZZH19, YYC+19, YT19, YZXW17, YZ19, YL19, ZW09, ZY12, ZQK15, ZYW+16, ZXW19, ZG19, ZL19, ZXC+19, ZWXS19, ZLW+19, ZZX19, ZYLT06, ZFJ16, ZQW+17, ZCH+18, ZLYY18, ZFXJ19, ZWL+17, ZLC17b, ZDX12, dARP17, dCRS11, sCR19, KAA19]. Algorithmic [SKK01, WS17, WS19b, BGV+01, Cho01]. Algorithms [BJ18, CGBNM17, Fox10, GW19, SNM15, AJY+15, ABDO09, ALMT19, AMVOSGAC17, ATI17, AMS17, ABDR13, AT18, BYN+17, BDL+15, BED18, BB12, BCM15, BDTs13, BDH18, CDA09, CMVRVGI17, CTTW11, CCF+15, DLS04, DLT+16, EOD+19, EAGVBVS11, FLYL16, FLMR02, FRKS12, GYM14, GLM+16, HLY12, HT15, HR06, IQ0vdG13, JDM12, JM07, JZK03, KR17, KHZ06, KR04, KR11, LLMK18, LF17, LW06, LLH+17, LXX+19, LB11, LLY19c, MB17, MSD+18, MHLC+05, MTK16, MJL01, MB14, O018, PSRR14, PP17, RTM13, RB17, SRS16, SMG18, SER15, SFH13, SFT15, SSU18, TMZ07, VS02, XTB17, YCW08, ZS17, ZL12, ZLZ+17]. algorithms-by-blocks [IQOvdG13]. aligning [SL14]. alignment [AMHC11, BS04, LL04, LS15, SFR13, TDL+18, ZCL+18]. alkali [WYY+19]. all-pairs [SSB+14]. all-to-all [HR18, JKD19, ZJKL10]. allies [LDZ+19]. allocating [ME08, PBK19]. Allocation [HJTX17, BHD13, CA06, CCSS10, CLL+19, CFTT17, DFPT06, EdPG+10, FXX16, GEJ+08, GS04a, ITK09, JL10, Jot09, KZY15, KZY+18, LBV16, LC09, LDPZ14, LYF+17, MS17a, PLC+19, RPK08, Sha15, SS18, SN18,
SKJ17, SdSL18, TAMC19, TAB+06, TXZ+17, TSBR10, VDB09, VGN+16,
WRLS12, WHXB19, XLZD13, YYC10, YCL11, YLYC11, YYC+19, YPLL11,
YL01, Zen19a, ZJL13, ZLH+15, ZWMT12, vdKEL10. allocations [SB17].
almost [BK05], almost-whole [BK05]. alternating [ZF18]. alternative
[BFU07, ELM+16, Kul14], alternatives [AM01]. Alting [WBM+10].
altitudes [ABK+18]. Alto [DC19a]. ALU [NK19]. Amadeus [BPB08].
Amazon [MSL+14, MDH+16, PRNM19]. AMBA [MS10]. Ambient
[dMd+17]. AMC [CCW+15]. American
[GG07, DCJ12, HLCW15, PW12, TZKH12]. among [BFU07, MOO17].
amplifier [SM19c]. AMSBA [PIGK16]. AMULET1 [The01]. AMUSE
[LDS+08]. analyses [BAD+11, DZ13, SMBT07, TCH+13]. Analysing
[LLT09, Sch04]. Analysis
[AM07, CLZX10, CLW+15, DXWC16, GMH13, GG07, GGR+10, HLYD12,
KNT+01, LGM291, MPG+13, PQQ13, PB19b, ULS03, YYXL19, Yan19a,
AA16, ABF+10, AHB+10, Aia15, AAQAR+17, AAF+07, ANCA19, AC06,
AHH14, BRK+17, Bai17, BGGS14, BMV03, BBCG02, BBdS+17, BKH08,
BRBW06, BDP+14, BSLP11, BWE14, BM+05, CM05, CC13, CSBL12,
CGP16, CXPL15, CSMK19, CM18, CMD17, DCG11, DIM18, DDX+06,
DXHL17, cDrLyC+19, DL17, DLW19, DPP+19, EMS15, FBBH+01, FM08,
FBC10, FBBH+17, FGG+18, GHLS19, GYB+11, Ger05, GMT07, GO10,
GL19, GPW03, GSWJ19, GYF+16, GC18, Guo19, HJB12, HGT14, HJJH19,
HFR+17, HPS12, ISS+02, IAH+15, JHH14, JZMD19, KVG+14, KR15,
KHM+11b, KYBV17, KOC+05, KSB+19, KSM+19, KAMB19, LLRS03,
LAC+08, LWG+15, LZW+17a, LH17, LGJ19, LLLY16, LL16c, LQL+09,
LJML10, LFHT15, LSW07, LPC+14, LGD15, MRMC15, MSL+14, ASB+19].
analysis
[MIT15, MOO2a, MS10, MSPDP19, MfM19, MP17, MJD15, MJD17, MRP+18,
MWHP16, MDV07, MWLW10, MWLS11, NLYZ12, OAS+15, OFR+17,
PWC+14, PFC14, PVR+09, PLL17, PSV19, PSS+18, PPP10, PRNM19,
Pu13, QZHL16, QZY216, RVD+12, RVRD10, dRRdCRR16, RVVPD+17,
RS07, RGB+15, SSE19, SGG17, SAOKM04, SLV12, SER15, SGCA+16,
SLGL16, SIS19, SWD+15, SM09, SWB12, SWL+01, SGR19, SB19b, SWD+17,
TNH15, TNi16, TQL+14, THQ19, TPH17, TWB13, TP03, WCA08, WZC16,
WBC+02, WWG+11, WMDM07, WKL+11, WCH+07, WXFH08, XTZ10,
XYER16, XZZ+16a, XBB13, XZZ16b, YYW+17b, YCYB19, YHH13, YL19,
Zen19b, ZCC+06, ZPG10, ZHL16, Zhe16, Zhn19, CKOG10, CMSM07].
analysis-driven [HPS12]. analytic [TPV17]. analytical
[CS13, IJDA08, LCI17, PRS01, RGA16, SYHD12, WTN07, ZHM+17].
analyzers [BM16, BWHS18, DSH18, DWG19, GQH17, KMJ14, Li18, LL19c,
MYS19, PRCV16, SMS+19, TTPJ16, WZY+17, YCQF19, YLH+19]. analyze
[FCY17, HNZD18, HWZ08]. Analyzer [CV07]. Analyzing
[DT15a, HKGO8, IA11, MM19, PB19a, SdOVM16, UGM18, LZL17a, RR15,
XHZW09]. and/or [ECP18]. Android [AA16, CJC+18, CL16, KGP+19,
KGK17, KMO+17b, PCL17, QXS17, YWY+17b]. animal [CMT13].
anisotropic [Du18a]. annealing
[DS19, HXY+12, MK15b, WYZ12, WZLL18]. annotate [FHO+15].
annotation [CHH18, MHK+18, SRL+14, WOH+13]. annotations
[IS10, MGS19, vRGN09]. anomalies [SLV12]. anomalous [ZLZ+17].
anomaly [AWR17, BMPP17, CRB+17, HPD+15, KMBR19, LZL17a, MW18,
PFC14, PVCS18, RS16, WW19]. anonymity [LXW17, WWS+12, YZXW17].
anonymity [IS10, MGS19, vRGNP09]. anomalies [SLV12]. anomalous
[ZLZ+17]. anomaly [AWR17, BMPP17, CRB+17, HPD+15, KMBR19, LZL17a,
MW18, PFC14, PVCS18, RS16, WW19]. anonymize [GR13, TGS14, CZWH07,
HHWZ08]. Answering [GR13, TGS14, CZWH07, HHWZ08]. ant [MS18, TV14, YZ19].
Anti [LHZS19]. Anti-noise [LHZS19]. Anticipative [YYCH10]. ants
[PCS+12]. ancast [SPSNvS07]. AODV [KKK10]. AODV-RIP [KKK10]. AOI
[RGCC15]. AOI-cast [RGCC15]. Apache
[GC19, GRW+19, PMG+15, WZLL18]. APART [GG07]. APCIE [CCJ+16].
APEC [Ano02]. APEX [SS07]. APEX-Map [SS07]. APF [Li19]. API
[APHB16, YWL+17b]. APIs [CS15]. app [Fer15]. Appearance
[TNH15, TN16]. appliance [JK10]. appliances [LL15]. Application
[BBA18, Che18, DK19b, GLZ19, KJJ19a, MT19a, OK018, PHGK10, RVD+12,
RNAD19, RO12a, RO12b, SWD+15, TDM+02, AV07, ARPPM17, BHD13,
BVF10, BT18, BAZ18, CRC+15b, CCO15a, dOCFPJ13, CNAQ18, CUI5b,
CM07a, CUIB14, DZL+19, DZL+17a, DL17, ESG11, FCY17, FGG+18,
FJG+13, GA08, GSV03, GAE+06. GWVP+14, HLX+16, HVM+15, HKAC14,
HYLG15, HK02, IHB15, JZZW15, JN03, KOK14, KSM+08a, KS19c, KA11,
LL19, Li19, LHBW15, LXX+19, MKB01, MAK18, MWL+10, NZKK11,
OTO18, PWL+14, PSH03, PLW+18, QZH16, RNJ17, RMCHMG15,
SBE07, SDL+12, SM03, SBDP15, SLM+07, SVN12, TKA+02, TY15, TK10,
TBK+15, VSR+09, VSB+15, WXY10, WXS+18, XHH12, XLS19, XM02,
YDS+14, YBC+07, YZ19, ZS01, ZDA+07, ZYL10, ZS18, ZKJ+07,
ZZZ+15, ZLC17b, dRL10, vAVS12, RTPPH12]. application-aware
[DZL+17a]. Application-driven [RVD+12]. Application-level [BBA18].
application-network [LLD19]. application-runtime [GA08].
Application-specific
[RO12a, RO12b, ZS01, ZLC17b]. Applications
[AI17, BL17, CL08, CC09, EN09, EH18, Fed13, LWL17, LB19, PPST09,
PC17b, STS19, SNM15, TM01, Tur04, Wu18, YWT+12, ACJ10, ALKD16,
ABtGT+12, AA19, AMSS15, AK01, ASS+05, AMGC17, ALMT15, ACFT15,
AC06, Ang08, ACG15, AFG16, Ano06, AAV+15, AAE+09, BH16, BMV03,
BFR05, BCD+02, BEQOR13, BBDS+17, BBK11, BSI11, BR04, BFM+06,
BFVRC15, BAG17, BPD06, BS+03, CML+10, CEH+06, CGK+16, CGST17,
CV07, CGBNM17, CDMS15, CBL12, CGIP16, CSL12, CWMZ06, CA06,
CKC09, CG17, CN02, CSPM13, CM18, CSWB11, DJM12, DFPT06,
DHI+13, DMMV07, DvNM+11a, ET15, EPB14, EMS11, EDVS09, FEFY17,
EDBS08, EABVGV14, EMS15, EJF+16, FBH+01, FE17, FT06, FNBS16,
FO18, FS18, GBFR10, GLS+19, GTA10, GWC+11, HJY+19, HKS19,
HFDJ10, HKS+12, HLHC12, ISO+14, JOC+15, JCK+13, JKL+17].
applications
applications applications applications applications applications applications applications applications applications
Availability
[XPWF15, ANTZ09, DGM18, FBC10, KKTHL13, MLG15, MS18, PV15].
available [KM03]. avalanche [PIH04]. avatars [TNH15, TN16]. AVC
[RSMFE+12]. AVO [WZYG19]. avoid [CM06]. Avoidance
[ZKWK17, SWS+18, VKM+09, YESG+19]. avoiding [WS09]. AVPredictor
[WKZL19]. Award [Bou13]. aware
[AA19, ABC19, And13, ACIC+13, AMAB17, ACCM17, AMS17, BDE+19,
BKS18, BFM+06, BPB08, BHKW12, CEH+06, CGST17, CRCC09, CSL+18,
CLQ+17, CC15, CZG16, CLT+16, CLH13, CFTT17, CDN15, DFG+18b,
DMRS15, DCP+17, DPGA11, DHC11, DZL+17a, DXM+17, DYW16, DA15,
EN19, EOD+19, EQORS19, FA18, GYM14, GMVRGS15, GAW09,
GBJ19, HKS19, HAAWA+16, IHA+15, IRB19, ID18, JZL14, JZL15, Jon09,
KC15, KV12, KL12a, KBB11, Lan17, LBdM+16, LWYM16, LDXC13,
LFH08a, LYC16, LSJ16, LKK+19, MTM19, MS13, MRL16, MSP+13,
MDB+17, PEC+17, PGC+19, PPBB14, PRV11, QLD+11, RHZ+17, RIWS17,
RAFD14, RGB+15, STO17, SJW18, SBDP15, SGV12, TKQZ17, TDM+19,
VP19, WSL15, WQS+16, WJXZ18, WDT18, WDW+15, WSW+12, XDJL18,
YO10, YSL+13, ZLY+15, ZWH+17, ZFXJ19, XWPM19, YCWH07].
awareness [CAC15, LBOE18, RH07, TWZ+19, YCQF19]. AXC
[CBIGL19]. AxML [SLM04]. Azure [CTAB16, KBT+14, LRS15, XBD13]. Azure-based
[KBT+14].

B [CJX+19, IS10, MS10, PLL17]. B-mode [PLL17]. B.E. [BHH09, VSR+09].
Babylon [vHMB08]. back [LMS18]. backbone [NSSAK13, NSSAK16].
Backfilling [LGCCJ+13, WGZL06]. background [CZJY19, KMA04].
backoff [WYQ+13]. backtracking [FH13, PGdCJ+18]. backup
[BDP18, G018, LYS18, LWYZ19, ZWX16a]. bacterium [ALVY05]. bag
[PCGE18, PRV11, ZS17, NB12]. bag-of-task [PCGE18]. bag-of-tasks
[PRV11, ZS17, NB12]. Baidu [ZHXY+19]. balance [HWL18, SBDP15].
Balanced [MS17a, LZS+17, MS17b, WQS+16, ZLLL11]. Balancing
[DT17, FSC19, WTL+16, AS15, AR16, APHB16, BGV+01, DBR13, DCCZ18,
EB18, EOD+19, FJ05, FE18, FT06, GRQ19a, GCL08, KKTHL13, KLM17,
KR04, LJL+17, MKIO04, PBK19, QCB17, SVB19, WJYH16, WLL03b,
XBZ10, XTB17, ZEB10]. band [DK19a]. banded [BHL+09]. bands
[HCKF15]. bandwidth
[GDD+04, Hi18, LWF+15, PIH04, YLR+13, ZWMT12]. bar [AMRT14].
Baraglia [Ano06]. Bargaining [HJTX17, YCZ+13, SPJ14].
Bargaining-based [YCZ+13]. barrier [TZKH12]. barriers
[KCBO17, WBM+10]. BASARIM [UA18]. BASARIM-2017 [UA18]. base
[cDrLyC+19, XZH+16]. Based [HJTX17, MN10, ALKD16, AA216,
AFGL09, ABC+16, AQR+18, ASWR12, AR16, AM15, AK01, AMRW06,
ABC+08a, AKG13, AC02, AAQAR+17, AMABS18, ADSV16, AMP+18,
ALL+15, ASS19, AUHEWJ19, ABG+13, BAI17, BTCGL17, BCI+18, Bao19,
BDZ19, BM10, BBG17, BEDK18, BTCB16, BOB13, BVIB19, BLL18,
RBO\textsuperscript{+02}, RSKK19, RG19, RR15, RLZ15, RZL\textsuperscript{+19}, RMCN\textsuperscript{+07}, RGCC15, RSMFE\textsuperscript{+12}, RIWS17, RWK17, Roj19, RCLSK16, RG17, RHS17, RCT03, RRWS08, SJB14, SARCRL18, SS17a, SAB15, SR19b, SBBE07, SRM\textsuperscript{+15}, SPR\textsuperscript{+07}, SGD15, SAM19, SS15a]. \textbf{based}
[SIS19, SARL13, SWS\textsuperscript{+18}, SCLL19, SS18, SWLJ17, SN18, SZ18, SSH19, SACJ04, SR17, SB19a, SPB06, SHC\textsuperscript{+16}, SM19b, SO16, SSW\textsuperscript{+16}, Soo16, SLM04, STL\textsuperscript{+15}, SWD\textsuperscript{+17}, SWZ\textsuperscript{+18}, SR19c, SC07b, SS17b, SC19, SW12, S18, SZ19, TWZ\textsuperscript{+19}, TAMC19, TJ17b, TZYL13, TQL\textsuperscript{+14}, TZLC15, TYL\textsuperscript{+15}, TYYT15, TLX\textsuperscript{+17}, THQ19, TCP\textsuperscript{+05}, TFG\textsuperscript{+12}, TDL\textsuperscript{+18}, TV14, TSBR10, TBK15, TBH18, VYKM19, VS02, VDPC03, VDB09, VRSJ15, VP19, VRDTB\textsuperscript{+16}, VFAD18, VO15, VvSI07, WBD19, WKB\textsuperscript{+19}, WYZ12, WKT08, WLDL10, WR12, WJ12, WZDJ13, WZZL13, WCR14, WZS15, WZC16, WFHT17, WLF17, WML\textsuperscript{+19}, Wan18a, WDQ\textsuperscript{+18}, WF18, WZLL18, Wan18b, WFKS18, WML\textsuperscript{+19}, WTY\textsuperscript{+19}, WWX\textsuperscript{+19}, cWsThY19, WW19, WGY\textsuperscript{+19}, WFS\textsuperscript{+19}, WJP14, WBC\textsuperscript{+17}, WZXZ12, WK07, WJK18, WCHL12, WRDZ13, WWL\textsuperscript{+17b}, WT18, WYY\textsuperscript{+19}, WXL19, XHM12, XWFH08, XDL\textsuperscript{+11}, XWD\textsuperscript{+12}]. \textbf{based} [XBJ010, XZZ16a, XLG19, XZJ11, XZH16, XDP18, XYSW18, Xu19, XXY\textsuperscript{+16}, YCZ\textsuperscript{+13}, YWL\textsuperscript{+17a}, YWLQ18, YHY19, YTF\textsuperscript{+01}, YHK09, YP10, YWC11, YXYL18, YSQM19, YKA\textsuperscript{+19}, YYYH19, YTL19, Yan19b, YC19a, YT15, YBZ\textsuperscript{+15}, YK15, YLZ18, YYLC19, YZXW17, YYWQ19, YLEB14, YZ10, YHH13, Yn18, YZ19, YCSY19, YL19, YYYH19, YQK08, ZF18, ZW09, Zen19a, ZAB\textsuperscript{+19}, ZP06, ZCC\textsuperscript{+06}, ZEB10, ZLLL11, ZTM12, ZJL13, ZIC15, ZLH\textsuperscript{+15}, ZYW\textsuperscript{+16}, ZQD16, ZZ18, ZMYA18, ZBZ\textsuperscript{+18}, ZHC\textsuperscript{+18}, ZLH\textsuperscript{+18}, ZCZ\textsuperscript{+19}, ZJT\textsuperscript{+19}, ZL19, ZWW\textsuperscript{+19}, ZXG\textsuperscript{+19}, ZHJ19, ZLL19, ZYY\textsuperscript{+19}, ZM13, ZLT\textsuperscript{+16}, ZCLL19, ZLG\textsuperscript{+19}, ZFT08, ZACG16, ZWW\textsuperscript{+18}, ZSS18, ZZZX17, ZQMC19, ZBBH11, ZFJ16, ZCXH17, ZQW\textsuperscript{+17}, ZCL\textsuperscript{+19}, ZFXJ19, ZXX17, ZC06, ZWMT12, dOOO\textsuperscript{+12}, dMd\textsuperscript{+17}, vHKT\textsuperscript{+11}, vNMW\textsuperscript{+05}]. \textbf{bases} [NZKK11]. \textbf{Basic} [ZX11, CGGH17, SKNH09]. \textbf{basin} [DL13]. \textbf{basing} [JB19]. \textbf{basis} [CQXW14, JLQ\textsuperscript{+17}, KF01, SPZ\textsuperscript{+10}, ZXX17]. \textbf{bat} [AMS17, KT19a]. \textbf{batch} [LWLZ11, MHRI14, SRS16, SR19a, SAB15, SVN12, VLMPS\textsuperscript{+18}, WCLC13]. \textbf{batch-of-stochastic-tasks} [SR19a]. \textbf{batch-of-tasks} [SRS16]. \textbf{batchsize} [Hey19]. \textbf{Batchsubmit} [MHRI14]. \textbf{bathymetry} [MMG\textsuperscript{+18}]. \textbf{battery} [CLH13]. \textbf{Bayesian} [NJM19, WZ11, WZJD13]. \textbf{BC} [LBY\textsuperscript{+16}]. \textbf{BDS} [HYQ17]. \textbf{BDS-IDC} [HYQ17]. \textbf{be} [PCL17, EMS11]. \textbf{beacon} [AAF17, WT18]. \textbf{beacon-enabled} [AAF17]. \textbf{beaconless} [JWZ13]. \textbf{beamformer} [PL15]. \textbf{Bear} [ON01, ON02]. \textbf{Bee} [MS17b, KC15, PN19]. \textbf{bees} [DBH\textsuperscript{+17}]. \textbf{before} [JW10, LSS15, PWJ10]. \textbf{behavior} [AAF\textsuperscript{+07}, CZJ19, CCS14, GGR\textsuperscript{+10}, GYS\textsuperscript{+17}, KL02, LF15, LS19, M18, RS16, SS18, YWL\textsuperscript{+17b}]. \textbf{behavioral} [LAE11]. \textbf{behaviors} [DJ19, GBXL17, HL19, KCD19, ZQR\textsuperscript{+19}, XLL\textsuperscript{+18}]. \textbf{behaviour} [ADK\textsuperscript{+17}, MDX14]. \textbf{beings} [GQR16]. \textbf{belief} [KHL17b]. \textbf{Bench} [SPQ\textsuperscript{+17}]. \textbf{benchmark} [BCD\textsuperscript{+10}, BG04, CLL14, DS02, EHSU07, GPW03, GPW05].
bus-subway

business

busy

buying

buying-based

Bypassing

bytecode

bus-subway

bus-subway

bus-subway

bus-subway

bus-subway

bus-subway

bus-subway

bus-subway

bus-subway
RNAD19, RGL+15, SGD15, SvDO15, SIRP17, SE01, SLC+18, SLC+19, TMF+10, TDC18, The01, WST+17, ZL19, dABV08, dARP17. case-based
[LLH+09, NNK+07, NNvVdA09]. case-study [GPP+18]. cast
[RGCC15, WYQ+13]. catalogues [SK08]. Catalyst [HCG07].
catastrophe [BCRC16]. catchment [DLM13]. categorization [KGGT12].
causal [BMA03, MGM+08]. Causality [CW09]. CBIR [PPP10, VYKM19].
CBMR [LLH17]. CC [Cha03]. CC-NUMA [Cha03]. CCA
[AAD+02, AKM+06, GCN09, GLC07]. CCD [Bao19]. CCGrid [OKG18].
CCGrid-Life [OKG18]. CCGrid2007 [CS09]. CCJ [NMK03]. CCLRC
[ACMA07]. CCN [SQS+19]. ccNUMA [CBPP02]. CDL [XDL+11].
CDMA [MS07]. cell [KRW17, MLVB05, MNL15, QH10, RDP10, SR19b,
VDL+15, BHH09, DAC12, EMS11, KD07, SSK11, VSR+09, ZDC+09].
[Mos19]. CENSOR [CKL19]. Census [DKMM14]. Center
[HGT10, BKZ+13, CYD+15, DGW16, DMW+10, FAM+18, GSS+19, HSM14,
IRB19, LLC+15a, LGY17, PLW+18, ZWH+17]. centered [AHB+10].
centers [AMAB17, BB12, CRB+17, DGL+12, GLD17, HSL19, JZL14, JZL15,
KT17, LFW+19, ROQL18, SZG+19, SPSB19, XLQL18]. Central
[WHW10]. Centrality [AMP+18, BOF15, CEB+18]. centralized
[CRC15a, DKKM07, WGG+06]. centric
[CN16, KSM+08b, Kr13, PB15, SBJ+15, SCLL19, SSIH19, ZJS+17].
centroid [FRKS12]. century [BHJ+16]. CERE [PAC+17]. certificate
[LDZ+14a]. certificate-based [LDZ+14a]. certificateless
[DXWD16, WWC+19]. certificates [BAD+11]. certification
[BGF14, HY12]. certified [XWX+14]. CFD [FBV+13, GHL+19]. CG
[ABF+17]. CC2011 [CL13]. Chain
[LX+12, CHX+19, HAJL16, HLL+15, KSR14, LWC12, LS19b, ZACG16].
Chain-to-chain [LX+12]. chaining [TSA+19]. challenge
[CBBCDO8, GH08, HSBM08, LS14, PBD+15, MLA+08, SKS+08].
challenged [FP09]. Challenges
[YWT+12, ZQ12, BCA+10, CSAC19, Dik07, DHC13, FBV+13, LIL+14,
PHY+18, PCJ17, PCB+18, PT12, SN18, WJJM17, LF15]. CHAMELEON
[DZZL19]. Chan [YH+14]. change [BB19, JLQ+17]. changes [FWJ10].
changing [SWU08, ZCL+19]. Channel [VP19, Du18a, DXZ+16, HKB07,
KT19a, LWG+15, LWW+06, MTM19, MS07, SCLK15, ZKWK17]. chaos
[MSV+10]. chaotic [LWW+19]. Character [TJD+17, ZSS18].
characteristic [KHW05]. Characteristics
[LZW+17a, DAC+18, PIH04, WLZ11, ZDJH18]. Characterization
[JVMN19, doCPF13, HKS+12, RGL+15, SCC+10, SMS+19, dP06, vAvS12].
Characterizing [HKAC14, MSN+19]. Charm [BBK11]. CHARM
Chebyshev [LWW+19]. check [LDZ+15, vRGNP09, LCC+03]. Checking
[PNB04, BCCM16, CAC+08, Gu019, HHF07, LCC+03, MK12, PadS+17,
SZR16, YGL05]. checkpoint [AG17a, Jon09, PGB03, BDB+13].
Checkpoint-on-Failure [BDB+13]. Checkpointing
[LX08, dCGK06, ALYD17, BBB+14, G018, KAL07, MJ11, MB18, RMG+10, SBS19, SGV12, SK18, YCW08, ZWL+19].
checkpointing-enabled [SGV12]. checkpointing/recovery [MB18].
checks [LGFM05]. chemical [HPHB+15, YZHH19]. cheminformatics [CBQ+11].
Cherenkov [RVVPD+17]. China [ZGRSC10, JW10, LMGZ19, MZS+10, SLČ+18, SLC+19, YQL+15, ZZYW10, ZL19].
Chinese [HLX+16, JHCH19, LGJ17, LMCL19, THQ19, ZQD+17, ZCLL19].
Chip [PS19a, GGFPGB14, GA09, LLN+14, MCP+12, MST13, Pu13, RS12, SPS17, XLL+15].
chip-multiprocessors [RS12].
chips [HTHW16, SSM04]. Chiron [ODS+13].
choice [CHZ10, CHZ12, SSMB15, WBM+10].
Cholesky [ZDG+14]. choose [PLY13]. Choosing [BFU07].
chord [BKH08, CCG08]. chord-based [RS12].
chunking [STO17].
chunking/recovery [MB18].
chunking-enabled [SGV12]. checkpoints [LGFM05].
checkpointing [LX08, dCGK06, ALYD17, BBB+14, G018, KAL07, MJ11, MB18, RMG+10, SBS19, SGV12, SK18, YCW08, ZWL+19].
checkpointing-enabled [SGV12].
CSL12, CL13, CJZ\textsuperscript{15}, CXPL15, CLH\textsuperscript{16}, CLL\textsuperscript{19}, CJZZ10, CZ15b, CVK15, CRV15, DIM18, DD16, DR5\textsuperscript{13}, DM15, DS17, DZL\textsuperscript{17}b, DSH18, DZZL19, DC19b, DXZ\textsuperscript{16}, DCG15, EN19, EB18, ETR\textsuperscript{13}, FHO\textsuperscript{15}, FHII15, FCY17, FLY16, FPC15, FGZ\textsuperscript{18}, FTR15, GQH17, GQJL18, GRQ19b, GRQ19a, GCSB19, GMPT15, GSR\textsuperscript{19}, GPP\textsuperscript{18}, GCZ\textsuperscript{17}, GWVP\textsuperscript{14}, GÖ18, GAS19, HKS19, HKA19a, HAAWA\textsuperscript{16}, HSI\textsuperscript{18}, HPD\textsuperscript{15}, HZY\textsuperscript{19}, HHPL16\textsuperscript{16}. \textit{cloud} [IHB15, IRB19, KKDS19, KC15, KSK19, KB17, KM13, KYM17, KTB17, KKK\textsuperscript{19}, KCKC15, KBT\textsuperscript{14}, KKT13, KZY\textsuperscript{18}, KMRT18, KSK17, KG19, LZZ\textsuperscript{17}, LWC12, LLLJ14, LLL\textsuperscript{15}, LWL15, LWG\textsuperscript{15}, LZY\textsuperscript{16}, LZW\textsuperscript{17}a, LHHJ18, LLT\textsuperscript{19}a, LW\textsuperscript{19}, LS19b, LDXC13, LW13, LQL\textsuperscript{15}, LBY\textsuperscript{16}, LHLH16, LZBF17, LRS15, LSMVML15, MW\textsuperscript{18}, MTGZ17, MYY18, MS13, MBMB18, MB12, MSST15, Mar19, MCP\textsuperscript{12}, MK15a, MT15, MB18, MW18, MPVT17, MMG\textsuperscript{18}, MAK18, NR17, Nam19, PLY13, PYKL16, PRCV16, PRD\textsuperscript{13}, PLS19, PT12, PPR19, PRNM19, PBK19, Qia19, QGZL18, QCBI17, HRHB13, RBP12, RBNG15, RSKK19, RBT18, RHUR\textsuperscript{19}, dRRdCRR16, RB17, RLDZ13, RHS17, SBV19, SIST18, SR19b, STO17, SBC15, SN18, SZG\textsuperscript{19}, SPJ14, SPBS19, SWP17, SKB\textsuperscript{17}, SWW\textsuperscript{16}, Soo16, SMMF18, SGL\textsuperscript{17}, SKA\textsuperscript{14}, SB19b, SA19, SCLK15, TZ16, THF15, TSL15, TLFL17, TXZ\textsuperscript{17}, TY15, TBTZ18]. \textit{cloud} [TPV17, VŚC17, WBD\textsuperscript{19}, WLW11, WL12, WYBS16, WLZ17, WSZ\textsuperscript{18}, WLZ\textsuperscript{18}, WZLQ16, WZL\textsuperscript{17}b, WWG\textsuperscript{11}, WSN19a, WSWL12, WNN\textsuperscript{15}, XRD\textsuperscript{17}, Xha18, XS19, XBB13, XXX\textsuperscript{15}, XWH\textsuperscript{17}, XTB17, YSL\textsuperscript{15}, YLD13, YXL17, YSC\textsuperscript{17}, YZCT17, YT15, YBZ\textsuperscript{15}, YCQF19, YCSY19, YYL\textsuperscript{12}, ZY\textsuperscript{12}, ZLN\textsuperscript{13}, ZDC15, ZNT\textsuperscript{16}, ZZ18, ZQD\textsuperscript{17}, ZYZ17, ZRB19, ZFJ16, ZWH\textsuperscript{17}, ZCH\textsuperscript{18}, ZYL\textsuperscript{18}, ZLZ\textsuperscript{19}, dOOO\textsuperscript{12}, dMd\textsuperscript{17}, BB12, CR12, CMS17, EH18, ESG11, KBB11, KMG18, LCW17, MDH\textsuperscript{16}, OK10a]. \textit{Cloud-aided} [WLFX17]. \textit{cloud-assisted} [MWPX17]. \textit{Cloud-based} [HSHT14, CLL\textsuperscript{19}, FPC15, GSR\textsuperscript{19}, KKDS19, RSK19, RHS17, TBTZ18, dOOO\textsuperscript{12}]. \textit{Cloud-enabled} [CKL19]. \textit{cloud-HPC} [KMRT18]. \textit{cloud-integration} [GMPT15]. \textit{cloud-of-things} [CMCAA17]. \textit{cloud/fog} [LLL\textsuperscript{15}]. \textit{cloudlet} [YBZ\textsuperscript{15}, YBX\textsuperscript{17}]. \textit{cloudlet-based} [YBZ\textsuperscript{15}]. \textit{CloudMe} [TDC18]. \textit{CloudMon} [LLL\textsuperscript{15}]. \textit{clouds} [BB15, CTAB16, CMS17, DXM\textsuperscript{17}, EQW\textsuperscript{18}, GVK12, GYP\textsuperscript{16}, HM16, JMF09, KS19b, KMB19, KOK14, KSPM12, LBdM\textsuperscript{16}, LZW\textsuperscript{16}, LFWS15, LGL16b, MDB\textsuperscript{17}, MK15b, OKP16, PCGE18, PC17b, PB16, PRP\textsuperscript{15}, SM11, SFCAV16, SYMA17, SK18, TPT\textsuperscript{18}, sTZNL16, VGN\textsuperscript{16}, WP12, XL\textsuperscript{17}, YLR\textsuperscript{13}, YNX\textsuperscript{16}, ZZ15, ZLH\textsuperscript{15}, ZS17, ZBZ\textsuperscript{18}, ZHI5, WNN\textsuperscript{15}, EMS15, HYQ17, SBP12]. \textit{CloudSim} [VŚC17]. \textit{Club} [SLT\textsuperscript{06}]. \textit{Cluster} [DMR\textsuperscript{07}, ACC\textsuperscript{12}, BYDC19, BBdS\textsuperscript{17}, CWL03, CGGH17, DSO\textsuperscript{01}, DT17, ELM\textsuperscript{16}, FHO\textsuperscript{15}, FJP\textsuperscript{05}, FS18, HWZ\textsuperscript{15}, HON1004]. JAA08, JCJ17, Jon09, KF01, KSC12, LGL16a, LXRJ13, MG09a, MFG\textsuperscript{13}, MSS16, NO02, PDY14, RPK08, SF16, SLM\textsuperscript{10}, WJYH16, WDT18, XLQL18, YCL\textsuperscript{11}, YK10, ZP07, ZYZ06, EEK\textsuperscript{04}]. \textit{cluster-based} [CWL03]. \textit{cluster-computing} [ELM\textsuperscript{16}]. \textit{clustered}
[DMA13, GSG06, LR05, LYL07, ZACG16]. **Clusterfile** [IT03]. **Clustering** [BDY03, KT19b, KT19c, ASE+17, DRS+13, DLX+16, HKA19a, HW16, Jun16, KOO12, KPS14, IWSZ19, LWY15, LHZX19, MT19b, NJZZ19, OZI19, PB19b, PCS+12, SS15a, SIS19, SS17b, TLX+17, YSW19, YZXW17, ZMYA18].

**Clustering-based** [KT19b, OZI19]. **clusters** [IT03]. **Clustering** [BDY03, KT19b, KT19c, ASE+17, DRS+13, DLX+16, HKA19a, HW16, Jun16, KOO12, KPS14, IWSZ19, LWY15, LHZX19, MT19b, NJZZ19, OZI19, PB19b, PCS+12, SS15a, SIS19, SS17b, TLX+17, YSW19, YZXW17, ZMYA18].

**CNN-based** [HCS18]. **CNN** [He19, HCS18]. **CNN-based** [HCS18]. **Co** [KT19c, CCSS10, CCLP19, Jon09, ME08, VDB09, YYC10, ZCZ+19, LMS18, MDV07]. **co-allocating** [ME08]. **co-allocation** [CCSS10, Jon09, VDB09, YYC10]. **Co-Array** [MDV07]. **Co-Clustering** [KT19c]. **co-scheduling** [ZCZ+19]. **Coalition** [CEM+17, BCdlCT06, HAAWA+16]. **coallocation** [ET09]. **COAP** [KG19].

**CMOS** [GZHF19, NK19]. **CMS** [FMS15]. **CNN** [He19, HCS18]. **CNN-based** [HCS18]. **Coarse-grained** [Yos06]. **coarse-grained** [CDA09, ID18]. **coarse-grain** [Yos06]. **coarse-to-fine** [QML+17]. **coastal** [ABC+08a, ZDA+07]. **coherence** [SC07b]. **coherent** [CS17, PRU14]. **COIL** [OOTK01]. **collaborations** [NRW04, TMS+12]. **Collaborative** [MP02, ZSL+10, vLRF+02]. **collapse** [CCS14]. **collapsible** [ZCW+18].

**collecting** [BDL+15]. **collection**
competition [MME13, XTZ10]. competitive [KZY+18, MSD+18, TBK06]. compilation [AC09, KKG04, MGI17]. Compiler [CCCI2b, KL12b, RMCA12, TJF14, TXY+16, WMvP+09, BAG17, FE18, LHC+07, LYL07, MCAB+02, MLP04, RMG+10]. compiler-assisted [RMG+10]. Compilers [Kui06, TFD07, GE06, MSP+19, SM02, YTF+01, KB12]. Compiling [BB04, BK05, CCO+15b, NNON02]. completeness [ZX11]. completion [NNK+07]. Complex [BCD+10, BFM+10, BDY02, CLL+18, DJM12, DXHL17, JHCH19, Kar14a, KSS+17, LHL10, RW10, RHK11, SGR19, Wan18b, ZLAa+17]. complexities [MvWvM+17]. complexity [CL14, FAM+18, HZHP09, HK02, NFG19, OKM10]. compliance [FGG+18]. compliant [dFMSPSW06, XRD+17]. Component [Ber07, JPWH02, JSS07, SBB08, AKM+06, CGB+06, DGR+07, EJF+16, HML20, JLA07, LLH19, MST+05, MB12, PPC14, PCC+15, PB16, SARL13, SVNI2, TMR+07, VDPC03, WK07, XWFH08]. Component-based [JPWH02, JSS07, CGB+06, DGR+07, MB12, PCC+15, PB16, SARL13, VDPC03, WK07, XWFH08]. Component-oriented [SBB08, JLA07]. Components [JZZL06, AFR09, BN19, CCGH17, GBSHA01, KL12a, LSW07, PXY+07, QH10, RE03, RBO+02, SPL06, SGD+18, SLB08, YBC+07]. composable [YL16]. Composing [EABVGV14]. composite [CEMR19, GYM14, RVK+12, ZLY+13]. composition [CHH18, DCP+17, EAGVBVDS11, KL12a, NPTT06, Pre01, RG18, XDL+11, XWD+12, YLD13]. Compositional [DAB09, MSS16, RG18]. compositions [LLX+15a, PPBB14, SGD15]. compound [SAP16]. Comprehensive [BDP+14, MRP+18, WPKL19, XHLT17, JAA08, PGC+19, VSK17, dP06, dMd+17]. Compressible [QQ+19, WJLD09]. compression [CMMS17, CXC+18, CS13, FN17, LSE+13, UMD+13]. Compressive [JyLdZ+18, CL+19, PHY+18]. Compromised [VS19]. Computational [DC19a]. Computation [Du18c, FH01, TH10, ABDP15, BP17, CP14, DFTHD18, ETR+13, EJD15, FLMRC02, GSV03, HZHP09, JVP18, LRLY17, LG08, LLRS19, LSP15, LPA+08, LL19c, MB16, NRR15, PSCK+15, PXY+07, Riz04, TWB13, WLWX14, WLWX16, WSRM12, YSQM19, ZP07, ZJ14, ZKJ+07, ZZL+17a, ZZL+17b, vRKS03, Ano06]. computation-offloading [JVP18]. Computational [BA04, DDE+12, HBH02, Mar05, Qiu11, QFG14, QFT14, RBBH02, TCDMR+17, vdSo6b, AHWJ19, BFM+06, BPD06, CAD+18, CNKJ18, CKC09, CCP+15, CDP17, DBR13, DS07, DMD16, FAM+18, FP02, FMS08, KV12, KG09, KKWZ15, LMH+14, MP02, MAdS+10, MPSGD14, MTVF14, MD02, NAP+07, PW12, PSG03, PB07a, PYF02, PCC17, PV15, RCB03, SNH15, Sha15, SR17, TP14, TRH+02, TV14, VDL+15, WGZL06, YHK09, YLC11, YTL19, ZSL+10, vHKT+11, vdS06a, GTG11]. computationally [GPV09, RMCN+07]. computations [BCP09, DIK14, DKJ13, EFY17, GGV14, GDM+12, GEA17, GSO4b,
KFD18, LSXL17, LWW+19, MCP+12, MRS08, NNH+14, NPL19, NDL17, OCC+05, RMCA12, Rav16, RLMS16, RCA+12, RPRG17, SAP16.

**Computer** [MDH+16, BAC+15, MÖO17, SKNH09, VLMPS+18, ZW14].

**Computing** [ACF07, Ano15a, ACD02, BJ18, Ber07, BRCV16, CR13, CM07b, FZ07, GM10, GPPR17, IBvA02, JX06, KB12, LV12, MLY10, NPM19, PHGK10, PW05, RRI11, SN06, SCNH07, STS19, SFN12, Tho07, VCG16, ZYH09, ZQH12, AOK19, AaBT16, Akt18a, AML+15, AdSCdR+19, AMGC17, AJY15, ADF13, Ano06, AT17, AKM06, ABG05, ANH+19, BYN+17, BGGS14, BTCL17, BFR05, BHM+12, BCX15, BCD+10, BLX19, BHQOS15, BZD16, BMB19, BKMT10b, BDG+10, BPT+16, BWU+08, BQX17, BHKW12, BP06, BAGS02, BM02, CLW+19, CBNM17, CLQ+17, CL13, CJZZ10, C15b, CLS14, CAG+13, CL07, CMB06, CT16, CN02, CPS17, CPB+04, CBG+06, COdO11, CMD17, Dab09a, DN19, Dam11, DD16, DC19a, DR+13, DED07, DW09, DM15, DS17, DWG19, DC19b, DKJ13, DCG15, EB18, ELM+16, EDBS08, ERW92, ETR+13].

**Computing** [EQORS19, FJP+05, FJ05, FMS11, FMT16, Fox12, FB16, GBFR10, GGH17, GRQ19b, GKS14, GKG+04, GAM17, GBMM15, GSO4a, GWC+11, GLD17, GVP+14, HKS19, HSM14, HSJ18, HXQ11, HWR03, HLC19, HBD15, JCK+13, JLL18, JPWH02, JK13, KDC17, KC15, KMB19, KBB17, KB17, KM13, KMK+17, KSM+08, KKT13, Kri05, LLMK18, LGLA15, LB16, LWC12, LLL14, LL15, LSS15, LDXC13, LLL+15, LQL+15, LBY16, LZB17, LALO2, LMOT10, MTGZ17, MZG19, MMHJ16, MAS16, MS17a, MS17b, MS18, MB12, MK15a, MDH+16, MM17, MSB16, MB18, MJD15, MJS19, MMG+18, MM10, MZK16, MGR02, NR17, Nam19, NNK+07, NC05, NJ05, OIS07, PW12, PYKL16, PLC+19, PRD+13, PIAH12, PSS+19, PCT14, PRC+14, PK17, PT12, PBK19, QZDJ16, QGZ18, QLL10, RRRB11, RHRB13, RVD+12, RBP12, RBNG15, RSM06, RHZ+17].

**Computing** [RCA+12, RBB+09, RCAD19, RB17, RLC16, RCLSK16, SRS16, SM04, SL10, SG16, SBC15, LsCy17, SQS+19, SRAG16, SH13, SFT15, Soo16, SRL+14, SWH16, SS07, SNGR18, SAM+17, TTD+11, TSA+19, TZ16, TKZQ17, TWSM05, TTL05, TTPJ16, TY15, TSKM18, TSS18, TBH+18, UA18, VDO5, VFAD18, WK19, WLLL16, WZ04, WCA08, WYBS16, WY+17, WFI+17, WLZ17, WML+19, WWY19, WWC+19, WZLQ16, WS+12, WS19b, XCL09b, XPF15, XADLC15, XL17, XS19, XBB13, XXX15, XBM14, XYS17, XWH+17, XT17, YCL11, YDB+13, YBX+17, YL5B14, ZBE17, ZBEM18, ZH08, ZZ16, ZZC+17, ZWT+18, ZP19,
computing-based [DWG19, MS17a, MS18].

conception [PBD15].

Concepts [DMW10, SP16, Sch04].

Concurrency [Ano06, FH01, TH10, BVGVEA11, BMS09, BT04, CAC08, CM02, FR02, HL06, Hoa10, LSW07, LWL19, TRW07, TDM19, WJH06, dCHMJ12].

Concurrent [AFGL09, BHM12, BH05, KFD18, SW09, Tan12, AKG13, ACGG06, ABS16, ADK17, BL04, CL10, CGIP16, CBB19, DZM15, GM04, IR11, JK10, Kar14a, Kar14b, KIM13, Kul14, LPSF11, LDPZ14, LSW07, MKIO04, MISV13, MS05, MCC16, NRR15, RCKV12, SSZ14, WJH06, dCHMJ12].

Confined [BIK11].

Condition [IR11, SWLJ17].

Conditional [FBS16, SKB17].

Conditions [LBDS15, LFG05, MFGE19, SWU08].

Condor [TTL05, LTM14].

Cone [ZGZ19].

Cone-beam [ZGZ19].

Conference [AF14, Che19, Du18c, FZ08, LB19, WDM14, Wu18, ZC19, CL13, DR15, GWD15, PDD14, PCC17, UA18, WDGI15, WT15, Fox01, Fox05, HF17].

Confidentiality [XBW15].

Configurable [SRF13, CGB06, GKPT13, WZ04, YDL09].

Configuration [AMVOSGAC17, BDP18, CKRO13, GBSHA01, KKTHL13, KAM11, YYXL19].

Configurations [PTL16].

Configured [STWSP12].

Configuring [ERZ11, GCSB19].

Conflict [BAS07].

Conflict-free [BAS07].

Conflicts [HDX17].

Conformal [QSZL18].

Conformance [SKR17].

Confuga [DT17].

Congestion [LLC15a, WDW15, ALL15, BVIB19, LWSZ19, WMA07, YESG17b, YESG17a].

Congestion-aware [WDW15].

Conjugate [JWW17, MLD10, SK09, SSK11].

Connected [BF07, MRY16, MvwvM17].

Connecting [MH07, BSP11].

Connectionist [YTL19].

Connectivity [CPNP09].

Conquer [CCW06, ND17, YA04, ZLT16].

Consciousness [LLYL09].

Consensus [BF01].

Conservative [BGdCCA11, DVB14].

Consideration [TSA19, XBW15].

Considerations [FA18, KBH15].

Considers [LWS19, MS17b, TYHL12, XXL19].

Consistency [OCS01, ADM06, ANTZ09, CY07, GKPT13, HWY17, VSK17, WNT02].

Consistent [PQP13].

Consolidation [ACG15, ACG17, AMAB17, BB12, BB15, IRB19, LBDm16, ZBZ18].

Constant [ZWy19].

Constant-size [ZWy19].

Constrained [XZT11, EQW18, JAU19, KSR14, LLT09, LWYZ19, LZBF17, MHL15, PCGE18, QW17, ZWX19, ZH15, ZFWJ19, ZLA15].

Constraint [YSW19, DAC12, GAE16, LWLF14, LGL16b, LNCY11, MSB17, RC09, SM19, SK02, TLF17].

Constraint-based [DAC12].

Constraints [ACG15, ACG17, AAE09, CY07, Cuz11, Hun15, KS19b, KZY15, LLG15, MS05, RIWS17, SAMS19, TKK11, TCD17, XXL17].

Construct [CCC06, ZGWXT09].

Constructing [AVS19, WKL11, ZIC15, CLL14].
construction

[۸۶۹۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸۸
KIM+03, KKS12, MKIO04, SE01, WLLL16, WBZ10, XZH+17, ZZY+19.
coopetition [CDH+15]. Coordinated [NB12, YZR14, Sod05].
Coordinating [CSL08, RE03, Pmn01, UR04, YLLZ09]. Coordination [CCT15, OM06b, BHBBD13, CW11b, LLLyL16, MZ06, OM06a, SNB+01, TCH+13, YLL+18]. coprocessor [DWC+15]. coprocessors [SSE19].
copying [GE06, HM03]. CORBA [BMV03, DPP03, MMSN+01, NDP+05, OSK+01, PvLV+02, SNB+01]. Core [ZQH12, AYN+14, ART14, AMTM17, ABC+15, AAW+02, ACCM17, AMZ19, BGGL07, BHBBD13, BUVS10, BRCV16, CPEA18, CLH+11, CZG16, CZL+17, CLF+19, CS17, CZL12, CLRB15, DLZ16, DLK+18, ELM+16, GLM+16, GdMK+18, HTHW16, HKAC14, HvNJB15, HFR+17, IZXM09, JSR19b, JPS17, KSG11, KW19b, LGLA15, LL+16, LQL+09, MGBC16, MCP+12, MM17, MSB17, OAS+15, PZ11, RMP+13a, RLMG16, RHBK11, SPW09, SPQ+17, STL+15, SEF+14, TYL+15, VDL+15, WJYH16, XZ09, ZYH09, ZYH12, ZZZL+19]. cores [BKSM+15, DXZ+16, GPPR17, HCD+15, HT15, QZQ+16, ZDR+18]. Cori [DAC+18, HCD+18]. Core [CT16]. correction [LLZ+17b, ZYLT06]. Correctness [ASS08]. Correct [BHBD13, MOK04, PHY+18]. correlation [CHP17, cDrLyC+19, KKW+14, LWQS19, LWS19, PWJ10, RCM12, XHH12, XYER16, ZLY+13]. corrosion [cWsThY19]. Cortex [CP14]. CoS [KSPM12]. coscheduling [DRS+13, Sod05]. cosine [ZSS18, ZHC+18]. cosmological [WDG+14].
coupled [AFG+05, HC07, JK06, LC17, SV09, VDPC03, ZJS+17]. Coupling [AFR09, Zho06, AwdADtH09, Boe12, FRB+06, ISS+02, ZDB+14]. course [ZL06]. Courses [GBB+15, LMH+14]. Cover [CSL+19]. coverage [XY17]. covert [QXSJ17]. CPC [Kn06, KB12]. CPPC [RMG+10]. CPSocio [ZX11]. CPSocio-SLN [ZX11]. CPSs [SZMF19].
CPU [ACG17, BEQOR13, CSMS+19, DXZ+16, EOD+19, FTT15, GGV14, Has17, HLCW15, Kar16, LLM19, LDZ14b, MJ17, Mit17b, PD14, PRG15, SD15, VL17, VLW19, WLLL+16, WDG+14, WJYH16, WWLD+18, XMJ+17, ZDX12]. CPU-cores [DXZ+16]. CPU-MIC [MJD17]. CPU/graphics [GGV14]. CPU/multi [SAI16]. CPUs [JdM12, LC17, RCLSK+16, SEF+14]. crawler [DH13, GDJ16, CMS17]. crawling [PZZ08, PZZ10]. CRA

D [CCW06, OLG+15, RWK17, VDL+15, ACIC+13, Boc19, CSMK19, CPE+19, DCG11, EMEY14, KSM+08a, MBP16, MCY+07, MIJ01, PSLC11, PDC16, PSCK+15, QSZL18, TTR+10, WZ+18, YBC+07, ZLKK17]. D3 [JKL+17]. DAC [HPD+15, ABFL17, ABMdAMF19]. DAC-Hmm [HPD+15]. DAG [RRR15]. DAG-schedules [RRR15]. DAI [AKK+07, AAB+05]. daily [MAVG16, SS18]. DALP [LWYM16]. damage [Wan18a, ZYL10]. damping [JAU19]. dark [Du18a]. DARPA [SCC+10]. DART [DPK10]. DartGrid [CWMZ06]. Data [ABB+15, CLT+16, CXT+18, EPB14, GS04b, GPZ04, HYQ17, KPS14, Lan17, LY14, MLS+15, Mar19, MP04, Pj18, PB07b, PK08, PS13, SG19, AaBT17, AKK+07, AHB+10, AMGCC17, ANPR16, AC08, APHB16, AD06, AMAB17, dRADFG17, BA18, BA19, BC16, BDG08, BCTB16, BCF12, BPL+19, BM16, BLXE19, BKWM19, BB12, BB04, BV11, BLL+19, BKZ+13, BPS19, BzDR+10, BZSO9, BHA+15b, BWHS18, BMPP17, BDMM+05, CMCAA17, CEH+06, CRB+17, CV07, CYD+15, CLNR18, CBHT11, CBW+7, CY15, CT12, CCSS10, CLH+16, CLF+19, CZY19, CBO+11, CVF+08, CT11b, CCP+15, CTAB16, CK+13, CGL19, DCG11, DIM18, DLNP07, DLX+16, DGW16, DS19, DIK14, DCY+08, DGL+12, DPK10, DZJ+15, DDF+17, DM15, DZC16, DS17, DL17, DSH18, DWG19, DC19b, DXM+17, DS15, DYW16, DA15, EJ19, ESG17]. data [EJD15, EJD17, FVLS15, FAM+18, FAB+07, FNI17, GM17, GLM+16, GSR+19, GD07, GvDHS12, GTL06, GLS+19, GSWJ19, GKP+09, HMFK15, HKA19b, HV+15, HKA+15, HAAWA+16, HZHP09, HWQ+16, HAFL16, HS19, HL19, HR18, HCG07, HLY19, HWZ+15, HZY+19, HLBI0, HA+13, IA11, IABE11, IRB19, JCP15, JLT+17, JF+08, JKL+17, JLL18, JZL14, JZL15, KBDA19, KTB17, KMJ14, KOOB15, KT19b, KKL06, KTZ+18, KC18, KCZ+05, KB13, KB18, LBOE18, LSE+13, LSS05, LL10, LT1+17, LPH09, LLL14, LWF+15, LLL+15, LNL+15, LZY+16, LGY17, LRLY17, LHHJ18, Li18, LWYZ19, LSZ19, LFWS15, LGL+17, LLLY16, LL16c, LWLZ11, LP15, LBY+16, LHL16, LXW17, LH+17, LMX+18, LDZ+19, LLRS19, LMDP19, LMT10, LPG+14, LL16, LGD15, MHW16, MV17, MYY18, MJ+19, Ma05, MTK+18, ML19a, MTT15, MDB+17, MRS03, MWRK18, MSV13, MYS19, MIM19, MCB14, MR+18, MGP+15, MGM+08]. data [MWHW16, MSM+14, MFGF19, MCB08, Nam19, NCD+08, NT+16, OOTK01, O018, OHJ13, OBD+18, PCaHL18, Pat08, PDD14, PLW+18, PGS19, PHCR09, PC17b, PQP13, PIK16, PdCMD+12, PS07, PXU+07, PRU14, QXXZ16, QQW+16, QGLZ18, QZY16, RM19, ROQ18, RSKK19, RBT18, RKS02, RLZ15, RJ01, RLC16, RCCH19, SACRGL18, SST18, SK04, SGD15, SAb+16, SB+15, SSIH19, SZG+19, SM19a, SPB19, SQOM16, SRAG16, SM19a, SB18, SM19b, SSK+14, SCV+08, SWZ12, SL+18, SL+19, TDKZ16, TTV08, TJ17b,
ZGX11, ZZL [VDB09].

debugger Dataflow deadline-aware [LHLH16].


[ABMAM19, AAB19, CWMZ06, CNG13, HnLGP03, LLB04, LLWS09, LW13, PN19, RPK08, dFMSPSW06, WLDL08, ZCL18]. Databases

[GMF01, BGM03, GR13, MIGA18, OCS01, RAV16, SMFM18, SC07b, SW12, WDL10].
datacenter [ZLZ15, ZWL15].
datacenters [ZCZ19].

Dataflow [WJL11a, JDH18, PSS19, RSN19]. dataflows [KFD18, SDOM16]. DataGrid [GTLO6]. dataset [SL18, XYER16].
edatasets

[BMP07, DP19, FCT02, HYL19, LTKF11, SMS19, TMP16, WCH07].
dataspaces [LHLH16]. Date [BCD02]. Davidson [RR11]. day [CAK17].

de-disturbing [Du18a]. dead [CH04]. Deadline [LZBF17, EQW18, HKS19, KS19b, LWPL14, LGL16b, PCGE18, TCDMR17, ZH15].
deadline-aware [HKS19]. Deadline-constrained [LZBF17, PCGE18].
deadlines [VDB09]. Deadlock

[LZC10, MSS17, YES17b, YES17a, YEP17a]. deadlock-free

debugger [FSPC02]. Debugging [Ur07, WK07, HM04]. decentralization [HJIH19]. Decentralized [YMQF19, ZWX16b, ACJ10, CZ11, CW11b, CL07, CCT15, DCEK15, DGM18, Del08, DS07, JDB16, PVMX17, SGD15, WZC16].
deception [BC16]. Decision [ATT14, ABMM19, ADK17, BXLJ16, BJ17, DCCZ18, GQJ18, GPS07, HLL15, LZZ15, MLY17, MW18, MLWA19, NNVD10, SS17a, WLZ17, GED18]. decision-making
[ABMMR19, DCCZ18, GQJL18, GPS\textsuperscript{+}07, HLL\textsuperscript{+}15, SS17a].
decision-theoretic [BXLJ16]. Decisional [LZC14].
decorative [CMS17, ET15, HL06]. decoded [PCL17]. decoder [PMG19]. decoders [LDZ\textsuperscript{+}15].
decoding [LDZ14b, LLH\textsuperscript{+}18, Ree01, SJPB17]. decomposition [BJ01, BDV02, FH13, JN03, JK19, LYL\textsuperscript{+}19, MGBC16, QML\textsuperscript{+}17, TSL\textsuperscript{+}19, ZLT\textsuperscript{+}16, dARP17]. decompression [FNI17, SHC\textsuperscript{+}16, SJPB17].
decoupled [DD16, JQP08]. Decoy [MIGA18].
decryption [LJW\textsuperscript{+}17]. dedicated [CFPJ\textsuperscript{+}17].
Deep [NJ19, RM03, ZLW\textsuperscript{+}18, BLCC19, GLZ19, Hey19, HLG17, KTHA18, KHL17b, KSB\textsuperscript{+}19, Li18, LLJ18a, LLJ18b, LSC\textsuperscript{+}19, LMC19, LDZ\textsuperscript{+}19, NJZZ19, QSM\textsuperscript{+}17, SRR19, VILW19, WF18, WCG\textsuperscript{+}18, WGG\textsuperscript{+}18, WVL\textsuperscript{+}17b, ZBZ\textsuperscript{+}18, ELM\textsuperscript{+}16].
deep-learning [WVL\textsuperscript{+}17b].
deep-learnt [BLCC19].
default [XDP18].
defeating [TJZ\textsuperscript{+}19]. defects [EPB14, JWW17, LZJ\textsuperscript{+}18].
defence [KKS12].
defense [LWY\textsuperscript{+}17, AQRA\textsuperscript{+}18, FCY17].
defensive [GSK19].
deferring [AM01].
deficit [LJML10].
defined [FO18, GKM19, HLG17, LLC\textsuperscript{+}15a, TSA\textsuperscript{+}19, TKK\textsuperscript{+}11, ZTG17].
definition [BGM03, EMS15, MCG\textsuperscript{+}08, OOTK01].
definitions [XWXC14].
deformation [LMGZ19, PNL10, ZGRSC10].
degree [GSWJ19, ZWLY16].
DEISA [Sod07].
Dekker [BDH16].
Delaunay [CCW04, CCW06, LCW\textsuperscript{+}17, PZ17].
Delay [WYZ\textsuperscript{+}17, ALL\textsuperscript{+}15, DZ13, LWFL14, OKBO19, RGCC15, WRLS12, WD\textsuperscript{+}15, XW13, ZLC\textsuperscript{+}19].
Delay-bounded [WYZ\textsuperscript{+}17]. delay-tolerant [ALL\textsuperscript{+}15, OKBO19]. delays [DBR13].
Delivering [YS\textsuperscript{+}15, AG17b, MCC\textsuperscript{+}15, PSLC11, WL02].
delivery [CCK\textsuperscript{+}17, HKA\textsuperscript{+}15, VO15, YQL\textsuperscript{+}15]. Delphoi [MVK\textsuperscript{+}06].
deluge [BDG08]. demand [ASWR12, BKWM19, CSSs10, CZG16, FSM\textsuperscript{+}19, KBDA19, LL10, LWYM16, MS17a, MS17b, MS18, VGN\textsuperscript{+}16, VO15].
Democratization [MAK18]. Dempster [ECP18, JLQ\textsuperscript{+}17]. Demystifying [TPGC15, YQL\textsuperscript{+}15].
DENEB [FÁBE11].
Denial [OrdSL13, CYD\textsuperscript{+}15, VT15]. denial-of-service [CYD\textsuperscript{+}15, VT15].
denoising [ZY\textsuperscript{+}19]. dense [ADI\textsuperscript{+}14, ADMQ014, BGG107, BDR\textsuperscript{+}17, BHL\textsuperscript{+}09, BCI\textsuperscript{+}09, BLL18, CKL17, HLYD12, HG18, KB13, KLDB10, MCP\textsuperscript{+}12, SD15, YDS\textsuperscript{+}14].
Density [ZH16, FC06, KS14, LW05, LDZ\textsuperscript{+}15]. density-based [KPS14].
Dependency [Dra15, ALDY17, YYL\textsuperscript{+}12, ZXX17]. Dependency-based [Dra15].
dependent [BM08, CN16, JFI\textsuperscript{+}08, JM07, PB12]. dependent-failure [JM07]. Deploy [PSS\textsuperscript{+}19, CSMB15, YT15]. deploying [ABiGT\textsuperscript{+}12, PKB03, WCL\textsuperscript{+}10].
deployment [CLNR18, DZJ\textsuperscript{+}15, ESG11, KSB\textsuperscript{+}19, PLY13, RB102, WSWL12, YBX\textsuperscript{+}17, ZFW19]. deployments [WXLM19].
deregulated [CAC15]. derivatives [ATVLM14, DCJ14, WSRM12]. deriving [ATI17]. descent [JLH\textsuperscript{+}16].
Descripting [Bri16]. description [BH09, BFK+17, CHH18, KS19a].

Desempenho [DC19a]. Design [BYP+17, BKH08, BAZ09, CHX+19, DIM18, EEK+04, EFM17, FA18, FO18, GG09, GCO09, GLC07, HKA+15, HG11, KL19, KKJH03, KVGH11, KN19, LCM12, LCC+18, ML19a, MPT07, Nk05, PSS+19, PCF+17, PL15, Pu13, QW17, RGL+15, SIS19, Sin10, Wan18a, YCLI11, AM01, AAB+05, BBGA03, CFFJ+17, CWCT10, CLH+11, CHM15, DP14, DZL+17b, Dra15, EME19, EB10, GTF13, GRGP12, HZHP09, HXY+12, HH19, HPS12, ISKvW02, JCVU15, JM07, KWL+04, KAP13, KDW+17, LgDH13, LZW+17a, LRS15, MKKB04, Mos19, PRC+14, PPBB14, PMG+15, PS19a, Rcc17, SGM18, SAdB+16, SBj+15, SccZ19, SACJ04, SSM04, SWL+01, SM19c, TKHA13, XBXS13, XL17, YYC10, YBB+07]. designed [JOC+15]. Designing [ABR+06, PZH+15, RBB+09, Rua15, LlVRG+14, AMSR14, CWMW15, Mit17b, Vgl16, XbZ10, ZC14]. designs [MAS+14]. desk [HFF07]. desktop [GGK+04, LJHL10, TAB+06, WJ09, ACJ10, LWY+16].

destructive [EZJ+18]. Detailed [SLGL16]. Detecting [BA19, MAdS+10, WWL+17b, ZTo9, GWHJL19, Hpd+15, HLZD18, LCH+06]. Detection [AMSS15, GKM19, SLV12, SRR19, YWW+17b, Yz19, AWR17, ABK+18, AMP+18, BA18, BLCC19, BTCB16, BPM17, CSL+19, CRB+17, CCC+06, CYD+15, CG17, DLJ15, DF+17, Du18b, Ecp18, FRKS12, GF07, GRTX18, HDDD09, HJS+18, Hcs18, HYGF19, JLQ+17, JKv+15, KL19, KMBR19, LL15, LWT+16, LQG+17, LZL17a, LL18, LZJ+18, Li19, LMCL19, LQGS12, LML+18, LMDP19, LZZ+02, MW18, MPVT17, MMB+17, MZA19, PFC14, PVCS18, PDCA17, PS07, RP19, RS16, RLDZ13, RG17, SZM19, SL18, SM19b, VS19, VJ19, VRDTB+16, WL11a, WZJD13, WdQ+18, Wf18, Wkzl19, Wml+19, Ww19, Wbc+17, Yan19b, ZBz+15, Zsws18, ZxX+17, Zjt+19, Zln19, Zlz+17, ZwL+18, ZQG+18, ZwW+18].
detections [QI17]. detector [EZJ+18, JKv+15, SS19b, YDL09].
determination [MJL01]. determining [FotW04, Riz04]. Deterministic [ANH+19, CDA09, BB12, SSM15]. develop [SdsL18]. Developing [RHZ+17, SRTG+15, Yaa07, Llt+14, SMY+15]. Development [FBH+01, KSN16, KHZ+15, MKKB04, MTFV14, Nov02, SFLS04, YLEB14, BR10, DCY+08, DFPC08, FAE11, FPC15, HCC+15, K119, LGD15, MO02a, MGR02, PGF+10, PSW11, SKK01, SKR17, VfAd17, VsB+15, Wyy+19, Zgl19, Vlrf+02]. developments [DF+15, SFT15]. deviation [WDQ+18]. deviations [Rvrd10]. Device [Ttd+11, Br10, Ceb+18, GivrC+10, Kkk+19, Mpr04, Wwl+17a, Xhi12, Zhm+17, ZwW14].
device-oriented [Kkk+19], device-to-device [Wwl+17a, Zhm+17].
devices [AA16, Aia15, CMCA17, CL16, Cftt17, Dgm18, Etr+15, Ksk19, LLY+16, MBP16, Mko+17b, Pslc11, Pgf19, SwW+18, VlW19].

diagnosis [CMW02, DFH10, LM07, XYL18, XJZ13, YY19].

diagnostic [MKK04].

diagnostics [ROA+07].

diagonal [XLL+15].

diagrams [WCR+14].

dialect [Bac03].

difference [OFR+17, PSCK+15, ZCL+19].

differencing [MWHW16, PH12].

different [Boe12, CSMK19, GMVRS15, GCZ+17, KCD19, MLS+12, RVVPD+17, VJ19, WMA07, ZWZ+18].

differential [MJ19, BJ01, CLW+19, PS10, PIAH12, RLVRGÁ14, SZG+19, TKB09, TCSBMG17, Wan18b, WYL14].

differentially [ZXRZ19].

differentiated [YESG+17b, YESG+17a].

differentiation [WYQ+13, vdKEL10].

diffusion [ˇCSMK17, CSMK19, ZLAa+17].

digging [DPS16].

digit [PPR19].

digital [Zhu19, ASS08, CL01, CNAQ18, DLM13, He19, KHF+17, LHC14, PPR19, lsCy17, TGS14, VYK+10, Xu19].

digitized [DKMM14].

dilatational [HTR10].

dimension [CBQ+11, LML+18].

dimensional [AVS+19, AR19, CWYX17, DMC+18, DCCZ18, DP19, GSB+12, HLCW15, JQ+15, JN03, JdM12, KOOB15, LLMM19, MMW16, MJZ17, MJZ+19, MABP13, Ogi02, RCCH19, SWZ12, TBK06, Wan18b, WCH+07, ZHJ19, ZM13, ZHZ+13].

dimensions [AvdADtH09, HP11].

direct [AV07, BdL06, PGL+17, WJ09, ZLF19].

directed [AS17, AR19].

directions [PMG+15].

directive [NO02, RG19].

directive-based [RG19].

directive/MPI [NO02].

directory [JCP15].

disaster [LWYZ19, ZCLL19].

disasters [GRTX18].

dISCOVER [MMMP01].

discovering [GD07, GBXL17, SKA+14].

discovery [KKW+14, LHXY08, AMRW06, BM16, CLTT13, GZG+16, GFG+09, GWVP+14, HVM+15, LKKL16, LDXC13, LAM+09, LLX15b, MLS+15, MTHK14, ORDG15, OBD+18, RCB+04, RCXS09, RSTV07, SGG07, TLPS18, WQL+18, WGG+07, ZS15, SGG07].

discrete [FBS16, KW19b, MQOQOH01, SP16, SHP14].

discern [GPVCdBRO12, HZH+19, XLMH14].

disCSP [PP17].

disease [CLLP19, Riz04].

diseases [KM19].

disjoint [ZWXS19].

disjunctively [QW17].

disk [DYY+19, WCH+07, WTL+16, YYS15, ZBZ+15].

disk-resident [WCH+07].

disks [DXZ+16].

dispatching [CKSC10].

dissecting [AUHWJ19].

dissemination [BLSP11, LWF+15, MWXP17, MLRR09, PF12, RSPV17, WZS+15].

disseminative [SW11].

distance [YZW+15, Zha19, BOF15, CMD17, HYGF19, ZGS17, ZWXS19].

distance-based [CMD17, HYGF19].

distance-bounding [YZW+15].

distinguishing [He19].

distinguished [EMB11].

distMe [RTPPH12].

distribute [RHL+18].

distributed [FK19, AOK19, ADSV16, AC09, Ano15a, BM12, BCCM16, CL10, CRB09, CT12, CPXA06, CM07b, CMD17, DFG18a, DSMM+15, DBR13, DFH10, DC19b, EN09, FH13, FB16, GJ17, GZX17, GBD16, HFF07, JBL16, JCK+13, Jos05, KMG+18, MWL+13, MN10, NSBR07, PHGK10, PDD14, RJo1, STS19, SCLK15, TWSM05, TTL05, TW07, TMZ07, Tur04, Ur07, VC16].
distributed

\[ FJ05, FT06, FN13, FBS16, GGHR16, GDJ16, GKP19, GVC10, GDL18, GLC07, GLS19, GLD17, HWL18, HWR03, HKG08, IBvA02, JKL17, JSP15, JZL15, KAL07, Kes04, KTB17, KHM11b, KJ14, KO06, KKM17, LL15, LWD18, LYL17, LRY17, LWN17, LTN18, LM19, LLD18, LBDS15, LMOT10, MvWvM17, MST05, MZ06, MMBP12, MLC04, MJ11, MFF04, MPSGD14, MRH14, MA15, MMS07, MVML11, MP03, MDL10, Not16a, OSK01, OKW18, OJ13, OAS15, OM06a, PCVV14, PRC16, PRS16, PN19, PVR09, PHY18, PLC19, PMW16, PWMX17, PAM15, PSC17, PQP13, RAO02, Rav16, RS11, RGC15, RHD16, RMI11, RO12a, RST05, RMCHM15, SJBJ14, SK08, SFLS04, SLV12, SRF13a, SRF13b, SRF15, SLM05, SAM17, SS19c, SHP14, SS15c, TTV08, TTL06, TCH13, TBK15].

distributed-shared

\[ BDV02 \].

Distributing

\[ MT08 \].

Distributed

\[ BD04, HMPPT13, MP04, QKS07, BDJ19, BDZ19, CCC16, GM17, LLY16, LNKZ08, LFX08, MLG15, MZG19, ML19a, MAS14, MSG10, NPT06, NTK08, PFL12, QWW16, RKS02, RTPPH12, SGCG09, XGXH15, YGW17, YWL17a, YHHS16, YF13, ZLG19 \].

disturbing

\[ Du18a \].

divergence

\[ CMMB13, DBH17 \].

divergences

\[ CSPM13 \].

diverse

\[ HMM09, VRSJ15 \].

Divide

\[ ZLT16, CCW06, NDL17, YA04 \].

Divide-and-conquer

\[ ZLT16, CCW06, NDL17 \].

divider

\[ LCM12 \].

diving

\[ SLC18, SLC19 \].

divisible

\[ DL07, LYC16 \].

division

\[ LZW13 \].

DMG

\[ PB07b, PK08 \].

DNA

\[ Bri16, CT16, fDOSR19, HSHT14, LS15, MBB04, MP17, SCRVI11, SRF13, SER15, SMS04 \].

do

\[ CHZ12 \].

Docker

\[ Spa19 \].

docking

\[ EDB14, EB14, PSIC18, TCP15 \].

Document

\[ HKA19a, PLZ14, SIS19, YHASZ19 \].

documentation

\[ vLDW11 \].

documents

\[ CL01, CCL19, LFH08b, R05, SS15a, ZSZ15, ZZ11 \].

DoD

\[ MP04 \].

DOF

\[ WRDZ13 \].

DOF-based

\[ WRDZ13 \].

Domain

\[ KCG19, ASE17, AHH14, BJ01, GRSB09, JN03, LFX08, LP14, MGB16, MHH16, PC17a, QH10, SJW18, SCGZ19, ZLQ18, ZTW17 \].

domain-specific

\[ MHH16 \].

domains

\[ PGW06 \].

dominated
[JN03, SJVR15, WBD+19]. dot [Mos19]. double [JVMN19, WLLZ18]. double-fetch [WLLZ18]. doubling [WBO16]. down
[DPS16, ML19b, IssCY17]. downlink [LZW13]. dragonfly
[YESG+17b, YESG+17a]. DRGs [LHB+19]. drill [DPS16]. drill-down
[DPS16]. DRIVE [CKSC10]. driven [BPL+19, CLR18, CXT+18, CM02, DMA13, DCFC08, EdPG+10, FSG19, FMT16, GLMT15, HPS12, KHZ+15, KZ+05, LFPP17, LW05, LTL+17, LGY17, LY14, MT19a, PS10, PLL14, RVD+12, SRAG16, SB18, TCDMR+17, XDL+11, ZIC15]. driver
[BR10, ZZZ+17]. DroidAuditor [QXJS17]. drop [ALL+15]. dropping
[GGLD11]. drowsy [ZLW+18]. drug [BBGA03, GWVP+14, JvAB+15]. DS
[MS07]. DS/CDMA [MS07]. DSM [KBVP07, VHB03]. DSMs [BKCP09]. DSP
[KL12b, LY07, LYLY09, SGL14, WLL14]. DSS [GED+18]. DTM
[DLPN07, MSN+19, RSN+19]. Dual
[NLYZ12, BUVS10, JVMN19, YYYZH19]. dual-core [BUVS10]. DUNE
[HLW+19, SSZ13]. duty
[CGKW13, NQL+17]. DVB [WWLD18]. DVFS
[CGST17, PTL+16, RR19, SR19a]. DVFS-enabled [SR19a]. DVMS
[QLS13]. DVS [Hi18]. Dynamic
[ALvy05, AMAB17, DLJ15, DK19b, FT06, GBSHA01, KTR11, KKL09, KSC12, MR03, NPTT06, NQL+17, PYKL16, PSJ13, RP08, RBT18, RSN+19, SP14, SCH+16, VCP16, VGN+16, WZL+17b, WX+19, YYY+10, ZFWJ19, ASE+17, BB12, BB15, BDF15, BB19, CK13, CY07, CWX17, CJZZ10, DSO+01, DMRS15, DZJ+15, DJK13, DMA17, F ABE11, GYB+11, GLMT15, GD07, GD08, GPW03, IABE11, IRB19, JOC+15, JK+17, KJŠ+15, KR04, KYY17, KUL14, LOKW+10, LK03, LCW+19, LCW+17, LJ+17, LWS19, LSMV15, MZ06, MSC18, M19, NSBR07, NNS+17, RHB13, RAC+12, R0j19, SSK02, Sod05, STL+15, TMS+12, TSKM18, WRDZ13, XCL09, XBS13, XZB10, XLYL17, XWH+17, YIN19, YCSY19, YL01, Zen19a, ZP06, ZEB10, ZZY+15, ZZZX19, ZZZ+18].

Dynamic-memory [GBV+11]. dynamical [GQ04, JA19]. Dynamically
[KL02, And13, GGFPGB14, HLYD12, KW19b, Li04, SWU+08, WCL+10].
dynamicity [ZX11]. dynamics [AaBT16, AHP+13, BGD14, CAG+13, CDP17, DLK+18, GKS09, JB19, KCD19, KF11, LGL16a, LZG+19, RBC03, TCP+05, VCW13, WJLD09, XTZ10, ZNT+16].
dynamics-based [AaBT16].

e-Business [DKMV07]. e-commerce [DJ19, PRS16]. e-course [ZL06].
e-Health [LRS15, LDS+08]. e-infrastructure
[ANK+17, CPS17, CPE+19]. e-Learning
[GBB+15, ABR+06, KKD19, SW11]. e-Malaria [GKM+08]. E-polling
[KSK19]. e-Research [SHG+07]. e-Science [DMM+07, GBB+15, HFO5, WAS07, WCO8, XAO11, LFH+08b, BD08, CCK+17, FGP+11, PME+08, RLS+09, SM11, SPP12, SGV12, VBB06, WHW10, YDB+13]. e-services
[Hus15]. E2 [WYL14]. eager [NC05]. EAP [HZC+14]. EAP-based
[HZC+14]. Early [HSV+19, MFC18, SMY+15, OKW15, SC07b, YWLQ18].

earth [Nak02, TKA+02, TMAG03, AFR09, KHW05, Ogi02, PXY+07, VGL06, Zo06, ZBC+07].

Earthquake
[Ano02, ZSL+10, FKP+02, HTR10, ISS+02, JW10, MHRI14, OKM10, PWJ10, SNK+15, TRH+02, TTR+10, YLEB14, YZ10, ZGRSC10, ZMJZ10].

earthquakes [MZS+10].

EASI [WNN+15].

EASI-CLOUDS [WNN+15].

easily [PKB03].

easy [MTA+07].

EasyGrid [BR04, BFM+06].

eavesdrop [PCL17].

EC2 [PRNM19], Ecce [SDB02], EcForest [YHASZ19], Ecology [SZ11], eCommerce [AHH14], Economic [ACS10, BAGS02, Fox10, SS15b, cDrLyC+19, HJH19, KD15, MS13].

economically [MRS+10].

ecosystem [HFTQ13, SAM+17].

ecosystems [LFHT15].

ECperf [BG04].

EDA [LWK15].

edge [DED07, GSK19, JLL18, KSK19, MT19b, MJS19, SZG+19, VYKM19, WML+19, ZFWJ19].

effect [KSK19].

effectiveness [CRB+17, CTY15, Eng15, Kal07, LLD08a].

effects [BDW14, JAU19, PLC+19, YG19, ZZYW10].

efficacy [LWW06].

Efficiency [PDD14, BBdS+17, BN19, BDM18, CLEL+18, dAGC11, GA09, GCP+14, GVP+14, HJH19, JPS17, KTS17, KS19, LL19, MM19, PZHS18, PLM+19, QX+17, SSV19, SZZ+19, TY15, Tru15, WR17, WCLH12, WTL+16, XDJL18, XL+15, XL17, XHW+19, YG19, ZLY+18].

Efficient [AD02, ANPR16, BB02, CCW04, CLF+17, CNG15, DVL13, DO+19, DZC16, GKS+07, GP07, GO+18, HZC+14, HWQ+16, HW18, HCO+19, HLO+16, LLKC08, LHTZ12, LDZ14b, LDZ+15, LRLY17, LAM+09, LLH+18, MCG18,
[HON04, TLX+17]. **emulated** [VRDTB+16]. ** emulation** [NR08]. Enable [Air17, ADM06, BM10, BBGA03, KKL09, LS19a, TMS+12]. **enabled**

[AAF17, CKL19, DFLNP07, ETR+15, FMM08, GHB+06, HYX05, LAC+08, ORJSL13, PSV19, PX+07, RSTV07, SR19a, SGV12, TWZ+19, TZG+19, WBD+03, YJZZ19, ZYLT06]. enables [CDH+15]. **Enabling**

[ACC+15, BDI+07, CPS+14, DPK10, DDF+17, DZL+17a, KJ19b, LCA+19, LLLJ14, PF12, PML+05, Spa19, SPStS07, BR04, DR15, FPR05, LPW15, RMCA12, dRRdCRR16]. **enactment** [OKP16]. eNB [BN19]. encoder

[PMG19]. encoding [BSZ09, DXG13, SM19a]. encrypted [HKA19b, LZY+16, LW13, PWS19, WS19a, ZZZ+19]. encryption [ATKH+17, BZD16, CLH+16, CMMS17, CZ15b, HKA19b, HL19, LGP19, LFZ+17, LW+19, LFWS15, LZC14, LJW+17, MMS17, MML16, Nam19, SKB+17, WZC16, WLFX17, XWX14, XXX+15, YZCT17, YESQM19, ZYW+19]. end

[CGBNM17, CK13, GHLIS19, GM10, JK13, LGL+17, TMZ07, WL02, ZKJ+07]. end-host [TMZ07]. **end-to-end** [CK13]. **endurance** [ABK+18]. Energy [ABC19, AZF+12, ANK+17, BFH17, CGMJ+19, CFTT17, EOD+19, IRB19, JZL13, Kar16, KHM+11b, KKWZ15, LPDZ14, LZL+17b, LWW+19, MABP13, MK19, PL+19, PSICU18, PRV11, RISWS17, SRS16, SR19a, Sha15, SHST13, SKJ17, SYMA17, WXX+19, XGXH15, YBO10, ZJL13, ZWT+18, ALZR11, AAC+15, AD+14, ADMQO14, ADSV16, AHK+15, AMAB17, ABDR13, BG14, BB12, BB15, BBdS+17, BN19, CGST17, CAC15, CLS14, CLH13, CGKW13, CSB+16, DMMA17, EN19, EZJ+18, FMT16, GFTA13, GMVRGS15, GA09, GCPS+14, GVP+14, HJV+19, HKA+15, HSL19, JZL14, KT19a, KC15, KBB17, KD19, KTB17, KS19c, KN19, KCG+19, LCW19, LYY16, MBB18, ML19a, MAVG16, MWRK18, MST13, MCC16, NASSK13, NASSK16, OKBO19, PLL14, PTL+16, PLL17, QXS+17, ROQL18, RR15, RR19, RRuR+19, RMCN+07, dRRdCRR16, Roi19, RGB+15]. energy [SNEP14, SQS+19, SPQ+17, SSZ13, TY15, Tru15, WZB10, WCZX16, WDT18, WS19b, XRD+17, XXL17, XHW+19, ZLF19, ZY12, ZQD+17, ZH15, ZLY18, ZGL07, PDD14]. Energy-aware [ABC19, CFTT17, EOD+19, PRV11, RISWS17, CGST17, DMX+17, EN19, JZL14, KGL+15, LCY16, MS13, RGB+15, WDT18]. Energy-based [CGMJ+19, PSICU18]. Energy-efficient

[JZL13, Kar16, LPDZ14, LZL+17b, MBB+17, SRS16, SR19a, SHST13, SKJ17, SYMA17, XGHH15, ZJL13, ZWT+18, BG14, BB15, CLH13, CGKW13, GFTA13, HJV+19, HKA+15, KBB17, MST13, ROQL18, RR19, WZB10, WS19b, XRD+17, ZY12, ZH15]. energy-harvesting [OKBO19]. energy-proportional [ZLF19]. ENES [VGL06]. enforcement

[Dam11, EBMD13]. enforcing [MLL+11]. engagement [XLY+16]. engine

[CEM+08, Kar14a, KSS+17, MG117, MMSN+01, ODS+13, PPBB14, RDP10, SGJ+17, VJK13, WWJ14, DAC12]. Engineering [AF14, MP02, BHJ+16, HPS05, HY12, JCK+13, LSS05, LBFS17, LM07, LHBW15, MRH14, PCC17, SRAG16, TQL+14, WYW+17, XLY+16, YLEB14]. engineering-level
[XLY+16]. engines [CLW+18, IPGCMW18, LBOE18, WZ04, WZ16, XLYX11b]. enhance [dAGC11, Jon09, LWW06, MJJD17]. Enhanced [AMBT17a, BDTdS13, DK19a, DNB19, DXWD16, FE17, FTT15, GSK19, HFR+17, KT19a, KABD07, KT19c, LHHJ18, LLJ18a, LLJ18b, LLC+15b, MRS+10, NJZZ19, PZZ08, PZZ10, PLZ14, WO14, XL17, YHASZ19, YHJ+14]. enhancement [DXM+17, PBD+15, PJW+14, SVY19]. Enhancements [AM07, AKK+07]. Enhancing [ADI+14, JCJ17, mLGP03, DWC09, GCSB19, HYL+17, KT19a, KABD07, KT19c, LHHJ18, LLJ18a, LLJ18b, LLC+15b, MRS+10, NJZZ19, PZZ08, PZZ10, PLZ14, WO14, XL17, YHASZ19, YHJ+14]. enhancements [DXM+17, PBD+15, PJW+14, SVY19]. Enhancing [AM07, AKK+07]. Ent [IUCH+17]. enterprize [DZL+17b, KD10, KM13, SLD+12, ZDL19, LR05, YAA07]. Ent [IUCH+17]. Enhancing [ADI+14, JCJ17, mLGP03, DWC09, GCSB19, HYL+17, KT19a, KABD07, KT19c, LHHJ18, LLJ18a, LLJ18b, LLC+15b, MRS+10, NJZZ19, PZZ08, PZZ10, PLZ14, WO14, XL17, YHASZ19, YHJ+14]. enterprises [DR15, HJH19, HH19, LS19b]. Ent [IUCH+17]. Entice [GKP+19]. entities [Kri13, LZW+17a]. Entity [FLG19, CCLP19]. Entropy [CYD+15, EPB14, LFW19, MLG15, PSIP16, SJPB17, SG18, YYWQ19]. Entropy-based [CYD+15, EPB14]. entropy-weighted [YYWQ19]. entry [MMS07]. enumeration [CSMS+19]. Environment [SMBT07, ABMMR19, ABR+06, BAZ09, BPB08, CLX07, CJS+15, CGS15, CHF+08, CH04, CGN15, CEG+05, CN02, CLX+12, CMS17, DKKL06, Den07, DL10, DCP+17, EB18, Erw02, FTRA15, FLG19, GZG+16, GRSB09, GD07, GAW09, GVP+14, HL19, HR06, HAE09, HLL+15, HH19, HLL+15, HZJ09, JZZ06, JKL18, Kes04, KB17, KM+18, LAC+08, LWL17, LLT+19a, LSZ19, LHL+10, MZS+10, MLS+15, MMMP01, MYDM06, MW18, MGR02, NR17, OGA+06, PLY13, PVR+09, PBK19, RHH13, RSKK19, RBT18, RVG09, RRS08, SVB19, SR19b, Sch02, SDB02, SM19b, SKB+17, SAM+17, VDDN+07, VP19, WL12, WZZL13, WCL05, WLL03a, XXX15, YDB+13, YCW07, ZY06, ZYZ+12, ZWL+15, ZY0S17, ZL06, ZL07, vNNW+05, CKSC10, HBG+06, IBv+02, JM19, LV12, MCSM+07, SPR+07, vSB06]. Environmental [ZP19, BAT13, LTL+17, LL19a, MWRK18, ZKR+07]. Environments [CR08, CL08, CC09, EN09, RIP18, SRdS09, SF10, ABtGT+12, ANCA19, AFG+05, ARPPM17, BCK+09, BMA03, BHA+15b, BW+08, CLR18, CLQ+17, CKV15, CPE+19, CS13, DCG11, DFLNP07, DHC11, EN19, EAGVBV0S1, EABVGV14, FP02, FRU12, HR+16, JQSP08, JPWH02, JK13, KKK+19, KJS+15, KZY15, KZ+18, LLCM18, LR05, LZO08, LZO09, LW13, LQL+15, MST15, MRS+09, NK+07, PGK11, RRBB11, RK12, RVR10, RHuR+19, RGC+15, RB17, SS17a, SN18, SM03, SGV12, SAP16, SA19, TAZ+19, TB12, UR04, VGL+16, WBD+19, WTL+16, XRD+17, YK10, ACF+07]. EPIC [Nev17]. Epidemiology [SMS+19]. equal [DLW19]. equal-area [DLW19]. equation [BdL06, LTZ+19, OLG+15, PS10, SSK11, Wan18b]. equations [BJ01, BEQOR17, BDE+19, CSTV06, FKYW15, GSV03, HKB07, KD07, MQQO0H01, PIAH12, TYL+15, WLL14]. equilibrium [SPH13]. equipment [ZQD+17]. equivalence [RG18]. Era

ERLANG [NTK08]. ERP [HH19]. Errata [DKJ16, TN16, WIWX16].

Erratum [Ano06, Ano15d, Ano15b, Ano15c, NSSAK16, YESG+17b]. error [BZD16, KCS07, LWS19, SWS+18, TLM17]. error-resilient [SWS+18].

error-tolerant [BZD16]. errors [BDW14, BL04, LCH+06].

eScience [Bou13, TH10, BDMM+05, MKO+17a, PS13].

establishment [CVK15]. Esterel [Sin10].

estimating [BOF15, JSPE15, DS15, HSHT14, ZWLY16]. estimator [ZCXH17, HML19, HML20, LLH19, FPHZ20]. Estimator-based [ZCXH17].

ETAS [IRB19]. Ethernet [Gog11, ZLA+15]. ETL [DYW16, TALT16].

ETNGRID [Ang07, CS06]. EUBrazilOpenBio [ABB+15]. EULAG [RCR+15].

European [CRC+15b, GG07, GTL06, KOK14, VGL06].

evaluation [LLL+19]. Evaluating [AJY+15, BDM18, CTY15, DAC+18, FVLS15, KTHA18, MOS19, VdSK+05, GMVRGS15, KKV13, MSN+19, MRS+09,Rua15]. Evaluation [CGST17, dCPD13, FK19, HML20, JDH+18, LLH19, MN10, SGJ+17, XPS+15, ACMM06, BLCC19, BNNH19, BD04, BUVS10, CRCC09, CMVRRVG17, CKOG10, CNG13, CYWX17, CtdW17, CLW+15, CMS17, DLVP07, DBB+16, DCCZ18, DMA13, EEK+04, EQW+18, ESG11, FLYL16, FG16, FGZ+18, FN13, FMP10, GSO8, GGV14, GS04a, HG11, JOK+18, KJ+15, LBOE18, LGP19, LH05, Li04, LL16b, LH+19, LFH08a, LBDS15, LC17, MBP16, MDH+16, MPT07, MAH+02, Not16b, OCC+05, PB12, PBD+15, PGC+19, PR91, QLZX19, QW17, RGA15, SM02, SFCAV16, SIS19, SCGZ19, SPQ+17, TKA+02, WMA07, WKT08, WSZ+18, WJKS18, XWD+12, YZ10, ZF14, ZCC+06, ZDC15, ZL12, ZQMC19, ZDX12].

evaluations [TMP16]. evaluative [YYWQ19]. evasion [MPVT17]. Event [XXY+16, CWZL13, DA19, FSG19, FP02, FBS16, GZH19, GCN09, GRTX18, Kar14a, KW11, LWT+16, LLC+17a, MLZ19, MT19a, PVCS18, SWD+17, SHP14, TL19, VEJD17, WDQ+18, WK12, WLC13, YP10, ZC15, ZFT08]. event-based [SWD+17, YP10, ZFT08].

ABFL17, ACG15, ACCM17, JLL18, KTM + [HSRN11, XYER16].

Exploration/exploitation [MTHK14].

executing [LPSF11]. Execution [SAP16, AHM06, ARPPM17, AAE+09, BPB08, CEMR19, CZY+18, CMB06, CCP+15, DRS+13, EJD15, FÁBE11, FOTW04, FMO8, GdMK+18, HPS12, KWL+04, LM08, LPS+09, LCT16, LF17, LY14, MDB+17, MCG18, MYDM06, PPBB14, QLD+11, RR19, RC09, RMCHMG15, TSK16, TNIB17, TBK+15, XLZD13, YIN19, dOOO+12].

evaluations [AL+09, HC+09, JLL18].

exercise [MTHK14].

executions [AL+09, HC+09, JLL18].

executives [MTHK14].

Experience [ABo09, BH05, SNB+10, TH10, BCC+05, CHPvdG07, DN19, GTO6, KQR+17, KBH+15b, LRS15, MKB01, MFC18, RSC+15, TTL05, TDM+02, WWG+11, WJD09, FH01].

Experiences [AHK+15, BGV+01, GBMM15, MSL+14, SLD+12, BCM+05, NCW+04, SBJ+15, SMY+15, SRTG+07].

experiment [BD08, HGB+08].

Experimental [BRW06, GBB+15, LFX+08, ZDH+18, AFG16, DYY+19, FPHZ+19, GRS06, HWY+17, Pan20, RGA15, WOH+13, ZP10].

experimentation [ACG18].

Experiments [BCdCT06, CT12, FLMRC02, KBT+14, PPST09, ZBC+07].

experts [MTHK14].

Explicit [KRG17, BVI+19, FIO+15, JMF09, KW18, ZZC15].

exploit [Nev17].

exploitation [ADF+13, FFT15, OGA+01].

Exploiting [BP17, BCI+09, BGI+14, CS13, DMM17, EdPG+10, Jun16, LPH09, QZ+16, ABFL17, ACG15, ACCM17, JLL18, KTM+09, Nob08, SPW09, TSLC15, VSB+15, YZB14].

Exploration [Bao19, CLH19, FFT15, ABDP15, BYN+17, KAP13, PDY14, PL15, WBC+17].

Exploration/exploitation [FFT15].

exploratory [HSRN11, XYER16].

Exploring [BS10, CSL12, CS17, DZJ+15, HTH16, LNKZ08, SZA08, ZYH09, ZYH12, XLL+18, YBZ+15].

exponentiations [TKS15].

export [MRK18].

expression [Dra17].

ExPregel [SNH15].

express [ZDI19].

expression [KHL+17a].

expressions [MFG+19].

expressiveness [YS07].

expressivity [KS04].

expressways [XHD+19].

Extended [DP516, LXW17, SSZ14, AS15].

Extending [BVGVE11, BEQ17, BB+13, EK19, CJC+18, FTR15, FMD13, OKW18, PY19].

extensibility [Slo06].

extensible [CS15, DLZ16, RHD+16].

extension [DIK14, HRR08, SCV+08, cWSThY19, ZG04].

extensions [ANTZ09, BDT01, ISK+02, PAC16, SIOS02, ZZ14, vRKS03].

external [LSL+12, ZYF19].

extract [CZL+17, LWZ+17].

Extracting [CSL12, MCM+08, ZCL19].

extractions [BTC16, CSL+19, DCG11, DPK10, HLO+16, LFX+08, RVV19].

Extractive [YHASZ19].

extrapolation [CH04, KRS11].

Extreme [JCVU15].
extreme-scale [BBB+14, EN16, YLL+18].

Exudates [ZBZ+15]. Eye [MRS+09]. EZRP [KABD07].

F [KS04]. Face [WZJD13, Du18b, HDDG09, QSZL18, XHH12, MKX+15].

FACE-IT [MKX+15]. Facilitating [Qi17, VFAD17, LHHJ18]. facilities [ACMA07, BVGVEAFG11, MH07, WLDL08]. facility [WHXB19]. factor [JyLDZ+18, ZWS18, AS15]. Factor-Optical-Factor [AS15]. factorization [BLKD08, Cho01, DFLL14, JLH+16, WZ04, WZL+17a, YTD17, ZF18, ZDG+14]. factorizations [ADMQO14].

Factor-optical-factor [AS15].

Factors [HMM+09]. fading [MS07].

Failure [EPA15, LFHT15, BN19, GMS09, JM07, MST13, SBS19, SZMF19, SC07a, SK18, TSA+19, YDL09, ZWH+17, BDB+13]. failure-aware [ZWH+17]. Failure-resilient [EPA15]. failures [GSR+19, LSW07, MAS+14, PWMX16].

Fair [DXWC16, GGS+16, HLC19, LLKC08, TZYL13]. Fairness [RCT03, NvV09, dSGD14].

Fairness [RCT03, NvV09, dSGD14]. FairThreads [Bou06].

Fairness [RCT03, NvV09, dSGD14].

Farms [GVC10].

faster [LS15]. FastFlow [ART14]. fat [ESGQ+11, LGY17, ZJKL10].

Fat [GY17, ZJKL10]. fat-tree [ESGQ+11].

Fault [AAE+09, BV11, FD01, LHT+09, ASB+19, NDP+05, ZJS11, ACJ10, ADM06, BF07, BHBD13, CCCO6, CJS+15, ET15, Fec12, GWHJ19, GGR+10, GG19, HTR10, ISS+02, KAL07, OKM10, PYKL16, PGL+17, PKG11, ROA+07, VYK+10, XLPW15, XTGL08, YY19]. fault-tolerance [CJS+15].

Fault-tolerant [NDP+05, AAE+09, FD01, ZJS11, ACJ10, BF07, Fec12, KAL07, PGL+17].

faulted [PNL10]. faults [KF15, XM02, ZCXH17].

Fault [AAE+09, BV11, FD01, LHT+09, ASB+19, NDP+05, ZJS11, ACJ10, ADM06, BF07, BHBD13, CCCO6, CJS+15, ET15, Fec12, GWHJ19, GGR+10, GG19, HTR10, ISS+02, KAL07, OKM10, PYKL16, PGL+17, PKG11, ROA+07, VYK+10, XLPW15, XTGL08, YY19]. fault-tolerance [CJS+15].

Federated [BFG14, GRBS09, GVK12, KMG+18, LHL10, LBdM+16, MSST15, HF17].

Federation [BTCGL17, MML+17]. federations [DMRS15, HAAWA+16].

Feed [HH19]. Fem [OA02]. femtocell [WRDZ13]. Ferrini [An06]. fetch [MNL15, WLL18]. FFT [AMS17]. FFTs [JKD19]. Fi [MB17]. fiber
field-based [MZ06]. field-programmable [NNH+14]. fields [GBXL17, HCKF15].

Fifteenth [BJ18]. File [PPR19, AC06, BGdCCA11, BKND16, BDT01, BAS07, DL10, DT17, DZM+15, HYX05, HCK+08, ID18, IT03, KKL09, Lia16, LH+17, LLY09, Mit17b, PGF19, SACRGL18, SNB+01, TWN07, Tru15, YYCH10, ZH08, AC08]. file-transfer [AC06]. files [CCC12a, LYL07, LLYL09, SdOVM16, ZZC+17]. filtering [LBH07]. filter [AA16, ATKH+17, BY12, CDP17, Jos05, LWQS10, HYX05, HCK+08, ID18, IT03, KKL09, Lia16, LH+17, LLY09, Mit17b, PGF19, SACRGL18, SNB+01, TWN07, Tru15, YYCH10, ZH08, AC08]. filter [AA16, ATKH+17, BY12, CDP17, Jos05, LWQS10, HYX05, HCK+08, ID18, IT03, KKL09, Lia16, LH+17, LLY09, Mit17b, PGF19, SACRGL18, SNB+01, TWN07, Tru15, YYCH10, ZH08, AC08]. filters [GPV09]. filter [AA16, ATKH+17, BY12, CDP17, Jos05, LWQS10, HYX05, HCK+08, ID18, IT03, KKL09, Lia16, LH+17, LLY09, Mit17b, PGF19, SACRGL18, SNB+01, TWN07, Tru15, YYCH10, ZH08, AC08]. filters [GPV09].
YGL05, YR15, ZXX16a, ZS01, ZP06, ZLN+13, ZSZ+14, ZCL14, ZDB+14, ZL12, ZHM+17, AK01, Zho06, ZBC+07. **Frameworks**

[HmLGP03, vdS06b, CNKJ18, GPS+07, GGV14, LTL+14, PPMH15, PBF15, PNJP19, SZT18, SK17, YWA07, vdS06a]. **framing** [CHZ10, CHZ12].

**FRAPP** [ZLN+13]. **free** [ASS19, AR19, BT04, BAS07, CLL+18, DDF+17, JWY+17, LLC+15a, LS05, LLH+17, WWC+19, YESG+19]. **freedom** [IR11, YESG+17b, YESG+17a]. **frequencies** [SCS17a].

**Frequency** [KS19c, AD15, CSBL12, DK19a, EA12, Kar16, LZW13, NLYZ12, PLZ14, XBXS13, YZW+15, AMAB17]. **frequency-band** [DK19a]. **frequency-division** [LZW13]. **frequency-improved** [PLZ14].

**Frequency-inverse** [PLZ14]. **frequent** [CT11a, KT19c, LXYC17, ZSZ+14]. **freshness** [ASS08]. **FRFB** [XLL+18]. **friction** [JAU19]. **friend** [HLF+17].

**friendliness** [BKM+07a]. **friendly** [CGR19]. **Frontier** [XADLC15, LWL15, TZK16]. **Frontiers** [ZYH09, ZYH12].

**FRP** [WZLQ16]. **FSO** [BKA19]. **FSVM** [XLG19]. **FT** [XTLG08]. **FT-Grid** [XTLG08]. **fuel** [SR19b]. **Fulfilling** [HHPL16]. **Full** [CSC+17, RSTV05, DMMA17, MB16, NK19, Pla08, ZNT+16, ZZY+19].

**full-adder** [NK19]. **full-duplex** [ZZY+19]. **full-pixel** [Pla08]. **full-system** [DMMA17]. **fully** [NF19, OHJ13, SK04, ZABP18]. **fun** [vdS06b]. **Function** [Soo16, Boe12, CMMS17, HTWW19, KS19c, LGQS12, LMX+18, LMDP19, PWJ10, PSM+11, SJJSVR17, TQA+19, TQL+14]. **function-call** [HTWW19].

**functionally** [BKM+07a]. **functions** [CMVRRVG17, EOD+19, FGZ+18, LPSF11, QZDJ16, SPZ+10, vWAH+02]. **fused** [FTT15]. **fusion** [AT01, Ane13, GKS+07, GIVR+10, GLZ19, KW18, KC18, LC18, PJ18, RMCHMG15, SZ18, SR19c, WLW14, WXXZ12].

**Future** [SCNH07, Arz17, DLP03, KAMB19, QD17, SN18, WKL+11]. **futures** [MGSS14]. **Fuzzy** [CEMR19, ACG15, ACG17, BTBC16, CWXY17, ECP18, HW16, KT19c, LZX+17b, LWW06, MMBP12, MLWA19, QLZX19, RSR06, SS19b, SC19, TVCB18, WDD+19].

**G** [LCYJ08, MCWL06, RMP+13a, RSTV07, YHK09]. **G#** [LGL16a]. **G-1** [RMP+13a]. **G-BLAST** [YHK09]. **G-PASS** [MCWL06]. **GA** [BPL12, FTT15]. **GAF** [PWWR05]. **Galaxies** [MCC+15]. **Galaxy** [ACC+15, MSL+14]. **Game** [BJC17, HJTX17, PRC+14, AOK19, CG10, CXQW14, CLW+15, FCY17, FXX+16, HAAWA+16, LC09, LZZ+19, MZW+16, SS17a, TXZ+17, WWS+12, WLZ17, XZH+17, Yan19a, Zen19a, ZZY+19].

**game-based** [MZ+16, Zen19a]. **game-theoretic** [CG10]. **games** [BDP18, CRC15a, JSP11, JSP18]. **gap** [CZQ17, HN15, RSSM06, BHJ+16].

**garbage** [AP06, BCK+09, HM03, JM19, KALL11, Puf13]. **garbled** [IKP19]. **gas** [WJLD09]. **Gaspar** [MSS16]. **gate** [JVM19, NNN+14]. **gates** [IKP19]. **Gateway** [DT15b, WDGGK15, BSC+15, CM07a, CGK+07, CDH+15, GWD15, JvAB+15, MRJ+14, MLW+15, MKX+15, PGP+10, PMG+15, SBJ+15, SVDO15].
SBB+15, SMY+15, Sod07, VSB+15, CGK+07, GBB+15, LPW15, PYF02.

Gateways [WD07, ACF+07, GBMM15, HMFK15, LZWD+15, MCC+15, MTA+07, MCD+15, OTG+07, SvD05, Sod07, WBB+07]. gather [MTK16].

GAUGE [HBG+06]. {Ga}uss [BEQOR17, Has17, KS19c, LL19c, Tan12].

Gaussian [DDF+15, Du18a, HKKF15, VS11, YWL+17a, ZLH+18, Zhu19].


General [ETL+13, ABDP15, AdSdR+19, BS09, CSL+19, FRB+06, FBV+13, LPM09, MWPL15, PSR14, PVCS18, RMP+13a, RZL+19, SNK+15, TXY+16, WQL+18, WLW14]. General-purpose [ETL+13, ABDP15, AdSdR+19, LPM09, RMP+13a, SNK+15].

Generalized [PHY+18, BCM+07, BMS+09, CL14, DFC12, KSM15].

Generate [DIK14]. Generate-map-reduce [DIK14]. generated [He19, YOBS16]. Generating [ER12, vHKT+11, AAP13, los11, KVHK17].

Generation [LXL+09, Aia15, Ang07, BFK+17, CSC+17, CC13, Can06, CLR18, CZ19, CDL06, COS6, CPS+14, CEM+17, DCD+14, GPS+07, HK15, ISS+02, JAU19, KKT13, KB06, KBE07, KJ14, KJ19b, L15, MLO15, LB10, MSL+14, MSP19, MK12, PPM15, PWX17, QEB+10, UAW09, WX13, XBM14, Zhu19]. generations [AP06, RVD+12].

Generative [HGB+06]. generator [DY16, TNB17, vWAH+02]. Generic [ALMT19, LL05, APH16, dRADG17, GvDHS12, MHK+18, RG19, SO16, TKS18, XZH11]. genes [CoO+11]. Genetic [SAB15, TZZ16, AS17, ACCM17, BYN+17, BDT13, GYM14, GRQ19a, HW16, KKZ15, KPS14, LHH18, LWW06, LZZ17, LLY19c, MHL+07, PN19, PCF+17, PV15, RP19, Riz04, SJ15, SZA19, TRW07, WLL03a, YWLQ18, ZL19].

-genetic-based [KKW15]. genome [MKAG14, WWL+15].


generic [WZ13, ZCL19, WYW+17]. geographical [ASG+08, QCB17, ZS15]. geographically [KT17]. geolocated [RHS17].

Geolocation [ZLG+19]. Geometric [LC18, CLZ+17, SJW18, ZF18, ZYT06]. geometrical [FMS15, ZDH18].

geometries [BFM+10]. geometry [ZP06]. geometry-based [ZP06].

git [JKL19]. glass [JWW17, LZJ+18]. gLite [KSM+08b, KKV13]. Global
[BFL+10, FWU+04, NDT+16, AHB+10, ADK+16, BDMM+05, HKS+12,
HBKM06, LF17, LLYL09, MTL19a, NPL19, Ogi02, PRD+13, TKB09,
TBK+15, VBW06, XRD+17, YSL+15, YCW08, ZDB+14, ZHW+16].

global-scale [BFL+10]. Global-view [NDT+16]. Globus
[ACFT15, DCY+08, Jac02, Kri05, MSL+14, MCC+15]. Globus-based
[DCY+08, Kri05].

globus-based [VvSI07, ZK08]. GP [LSP15]. GPAW [RGL+15].
GPFlow [RRWS08]. GPGC [ZYLT06]. GPGPU
[CCO15a, MKO+17b, MMG+18, PIAH12, WFJ+17, ZWW14]. GPGPUs
[BCT+18, FO18, NPL19, PW12, SSB+14]. GPS [LWZ+19]. GPS/WLAN
[LWZ+19]. GPU

[CSMS+19, SPZ+10, ADK+16, ABG+13, BP17, BG17, BEQOR13, BDE+19,
BFM+10, BKS+15, CMVRRVG17, CMMB13, CNAQ18, CSPM13,
CBB+19, CS16, DRZ+13, DÇK+18, DMC+18, DBH+17, ER12, EOD+19, FA18,
Fer13, FTT15, FN17, GSB+12, GMMT17, Has17, HGW18, HQoS11, HW16,
IOOH12, ISO+14, JML+16, JWL+16, KW19a, KH12, KMJ+17, KHF+17,
LLMM19, LGP19, LOSJ17, LDZ14b, LSH+16, LCT16, LZL+17b, LXYC17,
LLH+15, LS15, LLH+18, LSP15, MMO+16, MD19, MSN+19, MNL15,
MÖO17, MWLS11, NRR15, NSN+17, OFR+17, PDY14, PRG15, PDC16,
PGdCJ+18, PL15, PLL17, PK17, PH12, QWZ+19, RSC+15, RSMFE+12,
RWK17, Roj19, SSIIH19, SIRP17, SAP16, SD15, SN16, SS15c, TPGC15,
TDM+15, VLJ17, VLIW19, VLF+13, WLLL15, WLLL16, WDGI+14, WBO16,
WWLD18, XMJ17, YIN19, YTD17, YT19, ZCL+18, ZDX12, dCRS11].

GPU-accelerated

[ADK+16, CMMB13, IOOH12, JWL+16, LZL+17b, LS15, PGdCJ+18].

GPU-aware [BDE+19, FA18]. GPU-based [ABG+13, DBH+17, HW16,
LLH+18, MMO+16, PDC16, PK17, RSMFE+12, Roj19, SSIH19].

GPUs [ALKD16, ASS19, AHK+15, BDR+17, BCI+09, BY12, CGMJ+19, CLF+17,
CZL12, ETR+13, GW15, HP11, HCKF15, JKM+17, KVGH11, KW18, KB13,
LC17, MLS+12, PSICU18, PSV19, RS11, RPRG17, RCLSK16, Sör13,
TXY+16, VLI7, VLMP+18, VF11, YDS+14, ZZ+15].

GPU-SD

[JLH+16]. GRADE [Kac11]. graded [PSV19]. gradient

[JLH+16, JWW17, KL19, SK09, SSK11, MDL+10]. gradual [RC09].

graduate [MTVF14]. grain [Hoa10, JCP15, NNVDa09, Yos06]. grained

[BHA+15b, CDA09, CLH+16, CLX+12, DI18, JRS+19a, KWL+04, MDL+10,
RAFD14, RLVRA14, SK18, TNH15, TNI16, sTzNL16, WLW11, WZL+17a,
ZYN+07].

gram [PDCA17]. grammar [PS10]. grammar-driven [PS10].

grammars [LS05]. GRAND [VDdN+07]. Grande

[Fox01, Fox05, GPW03, GPW05]. granularity

[DKJ13, RCA+12, TJJF14, YKA+19, dSGD14]. GRAPES
Graph-based [AQRA +18, Hoh06, JLL18, LZW17b]. graph-cut [SS15a].

Graph500 [FBV +17]. GraphBAD [PVCS18]. graphic [MPSGD14].

Graphical [DT15b, Eng15, LPH09, PSRR14, RMP +13a, VDL +15].

Graphics [ADF +13, CP14, DCJ14, DG11, KC13, MCB14, VCW13, ATVML14, ACC +12, ABDP15, BDW14, BHQOS15, CGIP16, CSWB11, DCJ12, GWW17, GGV14, JdM12, LKPM09, LDZ +15, MAS16, OLG +15, PSCK +15, RCA +11, RCR +15, RK15, SPMP11, SPZ +10, SAD13, SNK +15, lSsCY17, Str11, SEF +14, TZKH12, WJT +14, WCZX16, ZO14, ZDG +14, LSXL17].

graphs [AS17, DOJ +19, FLMRC02, FBYO12, GG19, HWL18, LSL +17, MGM +08, RG18, RHL +18, TSKM18, ZQK15]. GRAPLeR [SAM +17].

GRASP [AMTM17]. gravitational [SR17]. gravity [HTR10]. Gray [Bou13, cDrLyC +19].

Gray [Bou13, cDrLyC +19]. grease [ZCW +18]. greedy [SQS +19].

Green [MAS16, CL13, DZ13, HSL19, KSK17, PTL +16, SQS +19, ZRB19]. Gregory [vEGW06]. Grey [KB17]. GRFA [LLYL09]. GRID [Ang07, CS06, ACF +07, ACD02, CL08, CC09, FKP +02, GIVRC +10, GHPR05, Lee09, MTD +02, NNTH +02, PvLV +02, PC17b, AQRA +18, Hoh06, JLL18, LZW17b].

[BR04, BKM +07a, BDG +10, BPB08, BSLP11, BASG02, BM02, BGBA03, CEM +08, CV07, CL07, CR06, CWZ06, CA06, CY07, CR08, CW07, CLH +08, IOOH12, Ios11, QJSP08, Kac11, KD10, KV12, KKT13, KZY15, KN19, KBH +15b, KA11, LC09, LZC08, LLSL15, LLL +19, MLS +15, MB12, MAS +14, ME08, MV +10, NNVdA09, PVR +09, PSV19, PV15, RRBB11, RHRB13, RSTV07, RG09, SGM18, Sha15, SGV12, SR17, SKH09, THF15, TV14, TSB10, VDB09, VSK17, VSKK09, WCL +10, WSW +12, dRL10, dAAVS12, vdABST10, vLFLG01, ACJ10, AKK +07, AC02, ACC +07, AHM06, ABR +06, AV07, ACMM06, AC06, AAB +05, ADM06, AFG +05].

Grid [SN06, SCNH07, SANB08, SRdS09, SF10, SL10, SLT +06, SB19a,
SPBL06, SLo06, SRTG+07, TWSM05, TMS+12, TMZ07, UR04, VD05, Vd4N+07, VBW06, WCA08, WKT08, WBC+02, WL02, WD07, WBD+03, XPBS11, XTLG08, YAA07, YHK09, YDB+13, ZBP06, ZCC+06, ZKA07, ZH08, ZWF+06, ZBP07, ZYLT06, ZKJ+07, ZXXN06, ZL06, Zln07, ZDL07, ZL09, dCGKG06, vNMW+05, vLDA07. Grid-based
[GIWRC+10, QXXZ16, HR18, HGB+08, CA06, DPS07, YHK09].
Griddable [RSTV07, GHB+06, LAC+08, PXy+07, WBD+03, ZYLT06].
Grid-Flow [GBH+06]. Grid-wide [GEJ+08]. Grid/cloud [MB12].
Grid5000 [AFG16]. GridASP [OISS07]. GridBLAST [Kri05].
gridification [AAV+15]. GridLab [KKM+06]. GridPortlets [ZKA07].
GridRPC [ABC+08b]. Grids [FP09, PB07b, PK08, ASS08, ADSV16, BM08, BKM+07b, BHPS14, CPB07, CC10, CG10, CCSS10, CW11b, Cuz11, DST11, DPGA11, FBC10, GKS14, dAGC11, GRS+17, JMF09, KOK14, KTB04, KTM+09, LSS05, LHT+09, Pie08, PGO+04, RMCN+07, SAC+07, SCV+08, SD11b, TTV08, TKB09, TAB+06, VBW06, WGZL06, YHK09, YYC10, ZKR+07, dABV08].
GridSAT [CW07]. GridSim [BM02, SCV+08]. GRIDSpace [DWC09].
Group [GG07, MH18, RRR04, TH19, GPS+07, GKT13, HWQ+16, KKDS19, LWSZ19, MMSN+01, PLY13, PYKL16, PY19, RSKK19, RIFR01, TAI+11, WLZ+18, XPS+15, ZLH+15, ZLC17a, ZXW16b, ZZL+17a].
group-based [PYKL16, ZZL+17a]. group-choose [PLY13]. group-oriented [WLZ+18].
Group-SPMD [RRR04]. grouping [CLW+18, LLL+19, WCR+14, YL16].
grouping-based [CLW+18]. grouping-proof [YL16]. groups [HPK+18, MZG19, MCXP15, RRR04, SMM18, ZHC+18].
groupware [XPS+15]. growth [cDrLyC+19]. gSched [CLQ+17]. gSET [MWJ+10].
Guided [CGGH17, KHL+17a, SHT+17, WJXZ18]. GUIs [MH07]. GWAP [CW10].
GYSELA [RLRG15].
Hadoop [CLQ+17, CLW+18, JCJ17, KHL+17a, LZJ+18, LL16b, LJJ+17, PSC+17, ZST18, SB19a, XDJL18, ZZC+17].
Hadoop-based [PSC+17]. halftoning [KHF+17]. halo [BBW19]. halo-swapping [BBW19].
hand [JTD+19, LLH+17]. Handel [IS10]. Handel-C [IS10]. handlers [YF13]. Handling [AMB+17, AAI12, KW11, PME+08, QLD+11, RCC17, TCBR+10, WFHT17, WK12]. handoff [HZC+14, MJ19, PS19b, WCLH12].
handover [YHHS16]. Hands [WAS07, WC08, Xu08]. haptic [TWZ+19]. haptic-enabled [TWZ+19]. Haralick [WCH+07]. hard
[BDW14, BLA+14, LTK17, Puf13, VDB09]. Hardware
[SPS17, VEJD17, ABM+19, ADF+13, BHKW12, CJX+19, ER12, FRK+12, GTFA13, GPV09, HJR12, HXY+12, HYGF19, JCVU15, LGVH13, LGQ+17, LPC+14, MPR04, SHT+17, SRF13, The01, TRW07, TGB+10].
Hardware-assisted [VEJD17, CJX+19]. hardware-aware [BHKW12]. hardware-oriented [TGB+10]. harmonic [Li19, SEF+14]. Hartley
[LZJ+18]. harvested [JWZ13]. harvester [GLS19]. harvesting
[CSB+16, OKBO19]. hash [MA15, WTN07]. hashing
[CZL12, KSC12, MIGA18, Zha19]. Haskell
[TL14]. HBench [ZS01]. HCM
[S+L18]. HCW [BJ18]. HD [DZM+15]. HDD [LHH+17]. HDD/SSD
[LHH+17]. HDF5 [EFM17]. HDKV [ZH+13]. Head
[YESG+19, ESGQ+11]. Head-of-line [YESG+19, ESGQ+11]. header
[GBXL17]. heading [LMS18]. healing [AA19, FMS11, GCSB19, MO15]. health
[EPA15, RM19, SGL+17, vLDW11, LSR15, LDS+08]. heart
[BTB16, OKP16]. heavy [EOD+19, GHZF19, RVRD10]. heavy-ion
[GHZF19]. heavy-tails [RVRD10]. held [HF17]. Hellman
[LZC14]. Hello
[LTT+14]. Helmholtz
[BdL06, LXRJ13, LTZ+19, OLG+15]. help [AG17b]. helpful
[GFL04]. helpfulness [ZTM12]. Heritage
[PCJ17, GIL17, PC17a]. Heston
[LDW16]. Heterogeneity
[BJ18, AMB+17]. Heterogeneous
[BJ18, FS18, SF16, VLJ17, VFAD18, YBX+17, AHP+13, ABC+16, AGMR05, ALMT19, AMP+18, Ano06, ATNW11, BFR05, BG14, BCM15, BHQS15, BAG17, BHKW12, CHP17, CL18, CLQ+17, CW11b, CLT+16, CLF+19, CPXA06, DLPV07, DFTHD18, DLK+18, DJK13, DL07, ELM+16, EOD+19, EAQVBC11, EJF+16, FE18, FGZ+18, FNBS16, FM08, GL19, GVC10, GCPS+14, HCG07, ITK09, KMB19, KSM15, LLM18, LLM19, LBTE14, LWL17, LLI+17, MP17, MJ14, MJ17, MRS08, MJ19, NZKK11, PSLC11, PP+STB17, PSC+17, PPP10, PS19b, RBO+02, RMCA12, RCA+12, SRS16, SR19a, SJSV17, S+SL18, S+CM16, SJPB17, SO16, SSMB15, STL+15, SEF+14, TL17, WKB+19, XXLL17, XLYL17, XDJ18, XLY+16, YCL11, ZABP18, ZLKK17, ZY16, ZWT+18, ZQW+17, VFAD17]. HeteroPar
[BJ18, CCJ+16]. heuristic
[AMTM17, GCWE15, LB16, PPST09, SRM13b, YLR+13, ZH15]. heuristics
[Ano06, BFR05, BB12, EQW+18, XXLL17, YPLJ11]. HEV
[WWX+19]. HEVC [JML+16]. HEVC/H.265 [JML+16]. hexahedral
[WO02]. HF [SS19b]. HiBench [SZT18]. HiCOMB [Mar05]. HIDCC
[HS3+18]. hidden [EMEY14, HP+15]. Hides [DZXL19]. hiding
[DWC+15, SM19a]. Hierarchical
[LP+14, RSKK19, TCBBM17, BJ+19, BDV02, CXT+18, EMEY14, GKR14, GMMT17, LFZ+17, LBY+16, MRL16, PF12, SS15a, SMM18, SIS19, TW07, VS02, XJZ13, Yos06, ZF18, ZWH16b, ZLA+15]. Hierarchically [GBD16]. hierarchies [DP14]. hierarchy [BP17]. High
[AAP13, AP10, BA04, Ber07, BDT01, BXQ17, BDH15, BDH18, DRZ13,
DA19, DDE+12, EMEY14, EB14, GL19, GM10, Li18, LSS15, Mar05, MLY10, MB02, NTK08, PHK10, PW05, PPBB14, PK17, RCB03, RMW19, SG19, SFN12, SFH13, ZKJ+07, AC06, AC08, AKM+06, BCD+10, BHH+16, BFM+10, BBM19, BDY03, BBD10, BDG+10, BPT+16, BDV02, BPD06, CGBNM17, CAD+18, CLH+11, CLF+17, CLS14, CEG+05, CFP+03, CRGR+12, Dam11, DL10, DMD16, DP19, DPK10, DFL14, DZM+15, DA15, EDB+14, ESG17, EMS15, ETR+13, FPHZ19, FGC06, FMT16, Fox12, FJG+13, GFBR10, GKS14, GAM17, GBMM15, GCN09, GA08, GDD+04, GVP+14, HDDR09, HLHC12, HLCW15, HYL+19, HY12, IC19, JOC+15, JK13, KDC17, KKTHL13, Kar14a, KSM+08a, KTR11, KOOB15, Kri05, KFW05, LMM19, LL05, LCM12, LZG+19. **high**

[EMEY14]. **high-bandwidth** [GDD+04]. **High-contention** [BDH18].

**high-density** [FGC06]. **high-dimensional** [DP19, HLCW15, KOOB15, LMM19, MMW16, MJZ13, MZJ+19, MMP01, MH16, MDH+16, MPT07, MO02b, MHR14, MA15, MMG+18, MCC16, Pan20, PSS+19, PGF19, PS19a, QXS16, QWX+17, QWZ+19, RVRD10, RCCH19, RCLK16, SRF13, IssCy17, SFT15, SKA+14, SRL+14, SS07, SAM+17, SWZ12, TTD+11, TKZQ17, TFG+12, TTPJ16, TSS18, UA18, UGM18, VS02, VJK13, VdSK+05, VFA18, WFT+17, WLF19, WHX19, WL02, WK07, XLL+15, XL17, YC19b, ZZ16, ZGS17, ZQD+17, ZLZ+19, ZHZ+13, ZCXH17, ZCL+19, BB02, CCW04, KS02, MP04, RK01, SIOS02]. **High-accuracy** [EMEY14]. **high-bandwidth** [GDD+04]. **High-contention** [BDH18].

**high-efficient** [CLH+11]. **High-end** [GM10, CGBNM17, JK13, LGL+17, WL02, ZKJ+07]. **high-integrity** [KWK05]. **High-level** [AAP13, DA19, GL19, NTK08, BDV02, CAD+18, MH16, MPT07, MCC16, VFD18]. **high-order** [ZCXH17].

**High-Performance** [Ber07, MLY10, PW05, SG19, AP10, BDT01, BDH15, DRZ13, LSS15, MB02, PPBB14, RCB03, RMW19, AC06, AC08, AKM+06, BHH+16, BFM+10, BBM19, BPD06, CEG+05, CFP+03, CRGR+12, Dam11, DMD16, DZM+15, ESG17, FJG+13, GFBR10, GBMM15, GCN09, GA08, GVP+14, HDDR09, HLHC12, HY12, KDC17, KSM+08a, KTR11, LL05, LLH+15, LAL02, MMM01, MDH+16, PSS+19, QWZ+19, RVRD10, SFT15, SS07, TTD+11, TTPJ16, VS02, VdSK+05, WFT+17, WK07, ZLZ+19]. **high-precision** [ZCL+19]. **high-productivity** [TFG+12]. **high-quality** [CLF+17]. **high-resolution** [BDY03, HYL+19]. **high-rise** [YC19b].

**High-speed** [ZKJ+07, DP010, DA15, LZG+19, UGM18, WL019, ZGS17]. **High-throughput** [EB14, EDB+14, FMT16, JOC+15, Kri05, PGF19, SKA+14, SAM+17].

**high-volume** [MHR14]. **higher** [Air17, BBSW17, JMF09]. **Highly** [MKAKG14, SC19, BWHS18, DCK12, HKVW16, KS19a, KM03, KSS+17, KHL17b, LLMK18, TCP+05, VCP16]. **highways** [SLC+18, SLC+19]. **Hilbert** [KHH13, SB19a]. **Hilbert-order** [KHH13]. **hill** [YT19]. **HiPINEB** [SG19]. **HIRLAM** [VCW13]. **Hirschberg** [JSR19b]. **histogram** [VYKM19]. **hits** [SSV19]. **hitting** [CSMS+19]. **HKE** [LBY+16]. **HKE-BC**
i-Computing [WLL03a, WLL03b]. I/O [EFM17, BFL+10, BKND16, BDT01, Hic18, JCJ17, LGL+17, LQL+09, LTT+14, PLM+19, PLW+18, WTL+16, YLL+18]. I/O-intensive [PLW+18]. IaaS [GCZ+17, LLL15, RB17]. IBC [BOB13]. IBC-HWMP [BOB13]. IBD [Riz04]. Ibs [vNMW+05]. IBM [SLM+10, ZDC+09]. ICA [LLQL14]. ice [ZGL19]. ICEC2017 [Du18c]. ICICTA [Hou12]. ICWM2009 [CW11a]. ID [YCSY19]. ID-based [YCSY19]. IDC [HYQ17]. Identification [GLC+04, KGP+19, AD15, CZQ17, CXT+18, CODO+11, DZL+19, DA19, EA12, HL19, HPK+18, LTL19b, LGQ12, LLS18, LF19, LHZ19, LL19b, LLL14, MHL1+05, NLY12, Wan18a, XBS13, YGW17, YHY19, YZW+15, ZLG+19, Zhe16]. Identifying [QZYZ16, SSC+16]. Identity [SWW+16, BOB13, GPV10, HZC+14, SWZ12, VRD1+16, WLFX17, YWL+17a, YNX+16]. Identity-based [SWW+16, BOB13, HZC+14, MHL1+05, VRDTB+16, WLFX17, YWL+17a]. idle [GKG+04]. IDP [CEM+17]. IEEE [Mar05, PCC17, BOB13, HON04, MP04, WCLH12]. IEEE802.16e [CLH13]. IGSIM [SB19a]. II [SLM05]. illuminating [HTR10]. ILU [ABF+17]. ILU-preconditioned [ABF+17]. IMA [XHCL15]. Image [EMS11, SMBT07, XY18, AT01, ASW12, BCG14, CRB09, Che18, Du18a, EM14, HAK19, HL17, JZM19, JZL16, KSN16, KMG+18, KSM15, LLL18a, LL18b, LY19, LC18, LHZ19, MW1+15, PLL14, PPP10, PJW+14, SK04, TVCB19, WJ12, WLW14, WBD+03, WW08, WCT+07, Xu19, YWL+17a, YJ1+14, ZWL16a, ZWL+13, ZGZ19]. image-based [ASW12]. image-processing [JZL06]. ImageCL [FE18]. imagery [Pla08, WCZ+18]. images [Boc19, CZL+17, GKP+19, He19, SPMP11, SS19b, ZBZ+15, ZWW14]. imaging [KSG11, PVR+09, PLL17, WKB+19]. imbalance [KHL17b, LL18, UGM18]. immunodominance [ZWL+17]. Immutability [PS05]. immutable [NN07]. IMP [GBB+15]. Impact [DS04, MB17, GSR+19, LGJ17, PB19a, QCB17, ROQ18, SM09, SK18, UGM18, XHW+19, ZDC+09]. Impacts [LLY+19a, HSY+19, LLL19b]. Impala [CZY+18]. imperative [SPB06]. imperfect [KT19a, LWC+15]. imperialist [MSD+18]. implement [MIM19, SNB+01, SLO06]. Implementation [CL18, CLF+19, KSM15, KD07, MLV05, MAH+02, PB12, SER15, SS19a, SLM+10, TKA+02, TMAG03, ACG06, AAB+05, AFT01, BP06, BDY02, BD02, CC13, CHX+19, CKNW06, DRL13, DPST06, DL10, DDB+16, FO18, GG09, GSB+12, GC17, GLC07, GPV09, GAB19, HG11, KL19, KWL+04, KKJ03, KBVP07, KV111, Kri05, KN19. LDZ14b, LLH+18, LRS15, MMR+16, MBB04, MLL18, MRL+10, MRS+09, PSG03, PMAL14, PDC16, RMW19, RGB+15, SBJ+15, SS17, SAC04, TALT16, TKB16, VDL+15, VHH03, WLL15, WMLD18, YP10, YYC10, YCL11, YGG14, ZYW+16]. implementations [AA16, BDM18, CACC11, CCW04, DS04, DDF+15, ER12, HPVRF14, LL08, TL14, WCC04, YBB+07]. Implementing [CJX+19, CKNW06, DLK+18, JM19, KKV13, YL01, NN02, PCT04,
implications [WLZ11]. implicit [RSM01].
importance [BMPS07, SCLL19]. Impossible [WYL14]. Improve
[LS19b, DMRS15, DDF+17, GVRC+10, PMG19, SAB15, TRW07, ZWSWS18,
ZCW+18, ZZD+17, ZJL15]. Improved [RF15, WLZ+18, YHHS16, YLWZ18,
ZL+19, BV16, CBHTE11, EB18, JZMD19, KKK10, LXYC17, LWK15,
LLY19c, MMO+16, MS19, Nam19, PLZ14, SB19a, cWsThY19, WBC+17,
WZYG19, XHH12, XLG19, YSQM19, YZXW17, ZWW14]. improvement
[CLL+18, CL16, DXWC16, DLT+16, MIM19, MJ19, TSW07, XLD313].
improvements [EA12, SVN12]. improves [ORDG15]. improving
[AYN+14, BN19, CLH13, Cog03, ET15, FBS16, GA09, Hic18, HTI05, KCB09,
LLD19, LSH+16, LL19c, MSMA19, MB16, RSC+15, WCL+10, WCLH12,
XJAJ18, YFL18, YSY15, ABM1AMF19, AHA18, CGP+16, CLS14,
HKR08, MM19, RMCHMG15, TCSBMG17, Tru15, XDJL18]. improvised
[RP19]. in-core [BGGL07]. In-memory [SGD+18, ZJS+17, MY17, SGJ+17].
In-network [XGC19]. In-place [DLL+17, DLV13, GW19, PSHL11].
In-VIGO [MTA+07]. in-VM [ZFYF19]. inAspect [ASS+05]. Incentive
[XZXN06, CLW+15, MZW+16, MME13, WLP+17]. Incentive-based
[XZXN06]. incentives [LPY+08]. Incentivising [PPR+15]. incident
[GQH17, RCI17]. inclusive [DW09]. incomplete [YYX19, ZWW19].
incompressible [HKB07, ZYW+16]. Incorporating
[WFJ+17, XLD13, HmLGP03, LM1H+14, vKEL10]. increased [YS07].
Increasing [CLZ+17, PHC09, Hey19]. Incremental
[BM07, RAV16, TSKM18, LWT+16, TJ17a, WHX19]. indefinite
[BDR+17, TDK17]. independent
[BKSM+15, CDMS15, GPW03, LL19c, PFC14]. index
[DKMM14, HCC+15, LW13, Qia19, SER15, TPV17, XHD+19]. indexes
[YWBS19]. indexing
[ATSAK15, DXG13, MIGA18, PPR19, RM19, ZWH+16]. indicator
[PRD+13]. indicators [DPS16, ZP19]. indices [WXLM19]. indirect
[PGL+17]. indirection [LGFM05]. Indirectly [SKC10]. indiscriminate
[YSC+17]. individually [LF15]. indoor [KBH15a, MB17, YYL19].
induced [ALYD17, GZHF19]. induction [WKB+19]. inductive [FMS11].
industrial [JKZ03]. industry [Air17, QGZL18, ZQD+17]. inefficiency
[WMDM07]. inertia [LWL+19]. inference
[MKAKG14, SJVR15, SLM04, SLM05, TVCB18]. inferring [SMM18].
InfiniBand [VKM+09, ZKJL10]. influence
[CHZJ2, GRS+17, HLW+19, SMS+19]. influential [MLZ19]. informatics
[TRT+10, vLW11]. Information
[Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i,
Ano20j, Ano20k, Ano20l, Ano20m, Ano20n, Ano20o, Ano20p, Ano20q, Ano20r,
Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20x, Ano20y, Ano20z].
Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17r, Ano17s, Ano17t, Ano17u, Ano17v, Ano17w, Ano17x, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano19a].

Information

KSC12, SWZ18. Informatization [HH19]. Infostation [TW07]. infrastructure [ACMA07, AJY15, ANK17, CRC15b, CZO08, CWMZ06, CPSP17, CPE19, CMS17, Cyb06, DMA13, JvAB15, JKL17, JQSP08, KMJ14, KA11, MCWL06, MPT07, MPVT17, MP03, PFU05, SACJ04, WWL15, WSP17, YDB13, ZWL13, ABB15, DR15, WLR05]. infrastructure-as-a-service [CMS17]. infrastructure-less [DMA13].


integrals [LLMM19]. Integrated [LWZ19, ABC08a, AMSR14, AFR09, BAC15, Fec12, GKS07, GLC04, HCD18, JZZL06, KB06, LZC09, PXY07, ROA07, Sch02, SB19a, VDL15, YGL05, YP10, ZBZ18].
integrates [SAM+17]. Integrating [AP06, CRC15a, MML+17, ZKR+07, BGV+01, BHW05, CLX07, DCY+08, HCG07, MCD+15, SKA+14].

Integration
[DvdS06, FHO+15, SM03, TPV17, Boc19, BDV02, CLH+08, GMPT15, GD08, GSK19, Qia19, RJ01, SGD+18, SZR16, SS15c, WQL+18, XLY+16]. Integrity
[AaBT17, AL04, BC16, CJZZ10, KWK05, SWW+16, WZL+17, XHCL15, YNX+16]. Intel [AP06, CRC15a, DAC+18, FNBS16, HCD+18, MCP+12, RGB+15, SWB12, Tan12, VDL+15]. Intelligence
[DvdS06, FHO+15, SM03, TPV17, Boc19, BDV02, CLH+08, GMPT15, GD08, GSK19, Qia19, RJ01, SGD+18, SZR16, SS15c, WQL+18, XLY+16]. Intel(R)
[GdMK+18]. intensity [LLZ+17b]. intensive [AMGCC17, CBHTE11, CGBNM17, CTAB16, GGHR16, HAAWA+16, HZHP09, JKL+17, LCYJ08, MWL+13, PLW+18, RMCN+07, SaLB+16, TKA+02, VJHB05, WSL15, WQS+16, XWH+17, YR15, ZWL+15, ZZ16, ZWF+06]. intent [KGK17]. intention [LL19a]. inter [HJB12]. inter-node [HJB12]. interacting [NAK+15]. interaction [BPdM06, CPG+16, HC07, IA¨BE11, JSEP15, LL19b, MMM01, MB14, MP03, YZR14, ZP06]. interactions [JQSP08, RCT03]. Interactive [VYK+10, WJ09, WST+17, CEH+06, CZW+07, CLW+18, GRGP12, HHWZ08, HLZD18, IBvA+02, KT04, MCY+10, PML+15, VS+17, ZZ18, vSB+06]. interceptor [Ang08]. Interceptors [NMMS01, BMV03]. interchange [BBG17, ZQZ+16]. interconnect [FAM+18, GDD+04]. Interconnection [AS15, NZKK11, SG19, ESG17, JAA08, KMA04, QLS15, ZLF19]. Interconnects [AS19, CKRO13, PLC+19]. interdependent [Sha15]. interdisciplinary [CN02]. Interest
[ZACG16, CRC15a, DCJ14, SZT19, ZJT+19]. interested [DK19b, XY17]. interesting [LJPP16]. Interface
[KKHJ03, AJMJS05, dRADFG17, DBB+16, GRW+19, GBH+06, HRR+11, Jac02, KOB01, OORVB14, UL03, WCZ+18, WKL14, AMHC11, SWL+01]. Interfaces [WD07, LOKW+10, vHKT+11]. interfacing [ASS+05]. interference
[FPHZ19, LXX+19, Pan20, VP19, WLL14, XHW+19, YYY+17, ZKWK17]. interference-aware [VP19]. InterGrid [dABV08]. interleaved [GSG06]. interleaver [IC19]. intermediate [PGL+17, YXLZ16, YYL+12]. internal [ABFL17, KJ19b]. International
[Au07, BL17, BJ18, CR08, CL08, C09, CW11a, CR13, Che19, CS06, DR15, Du18c, FZ08, GJ17, GXZ17, IUCH+17, Kni06, LB19, Mar05, PC17b, WCWB19, Wu18, CL13, Fox17a, PCC17, WT15, AF14, HF17]. Internet
[ABMMR19, AA19, AD15, BKS18, CHX+19, CLH19, CM18, DFG18a, Den07, GED+18, GTS10, HSL19, IAH+15, KJ19a, KCI8, Li17, LWW06, LTKF11, LLY19c, MK15b, MB15, PC17, PJ18, RS13, RMCN+07, RO12b, SMH+19, SS15b, SRN+15, XPWF15, Yu18, ZIC15, ZZY+15, ZLC17a, dMD+17].
[Ano18h, Ano18i, Ano18j, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, AM07, BA04, BM12, BL17, BHD13, BM04, Ber07, BKZ+13, BDB+13, BL09a, BL09b, BL11a, BL11b, BL13b, BL13a, CWZL13, CCCCW13, CˇCJ+16, dOCPFJ13, CLTT13, CR08, CC09, CW11a, CRKO13, CAG+13, CS09, CS06, CMT13, CM07b, CS13, DRZ13, DRS+13, DVL13, DDE+12, DLM13, DH13, EBMD13, EH18, ETR+13, Fed13, FK19, FN13, Fox01, Fox05, FG06, FZ07, FS07, FZ08, GG07, GM10, GvHK11, GZX17, GMF01, GHPR05, HL13, HQoS11, HF05, HTBR12, HTW14, HMPPT13, HFTQ13, JGJL13, JX06, KS02, KM13, KR06, Kni06, KB12, Lee09, LBS15, LXRJ13, LMKT13, LB19, LV12, LDXC13, LW13, MWL+13, MS13, Man08, MSP+13, Mar05, MSP+13, MFG+13, MISV13, MLA08, NPM19, Nar05, NSSAK13, ODS+13, OM06b, PLY13, Par02, PRD+13, PHGK10, PW05, Pie08, PB07b, PK08, Puf13, Qiu11, QFT14, QLS13, RMP+13a, RHRB13, RK01, RTMZ13, Run10, SHT11, SN06, SCNH07, SANB08, SRdS09, SF10, SRF13, SFN12, SD11b, TM01, Tho07, TH19, TH10, TWB13, TFDank, Tnr04, Ur07, VC12, VC13, WAS07, WZZL13, WC08, WLC13, WD07, WDM14, Wis02, XZ09, XW13, Xu08, XJZ13, YLD13, YLJ13, ZWL+13, ZLY+13, ZLN+13, Zha08, ZYH09, ZYH12, ZHZ+13, ZL09, vDS06b, AF14, CL08, CR13, CL13, Che19, DN19, DC19a, DKJ16, Du18e, EL01, EGM17, Fox17a, GTGT11, GWD15, HLX+16, HYQ17, Hdv13]. Issue [LFH17, Hus15, KXY18, LBW14, LBT16, LBT17, LDFS17, LL13, MYS19, MH18, OEP+15, FDD14, PCC17, QL10, RHT13, TP14, TSS18, TBE+18, UA18, WAD12, WR17, WCWB19, WDGK15, Xha18, XBCW19, YXS17, ZRB19, ZC19]. Issues [Nel05, vDS06a, AAI12, DP14, GB07, GLC07, MCCG11, SWHL16, YJZ19]. Itanium [JLT06]. item [LI17, ZSZ+14]. item-based [LI17]. items [CT11a]. itemset [LXYC17]. itemsets [HMM+09]. iteration [TYL+15]. iteration-based [TYL+15]. Iterative [SAD13, AYN+14, AAC+15, ADF+19, CTV06, EDS09, GSV03, HCO17, JSS07, KKO04, LLB04, N002, Nak02, RSR14, RPR18, XWC+19, YGG14, YT19, ZW09]. ITME2016 [Che19]. IVM [GMMT17]. JVM-based [GMMT17].

J2EE [BG04]. JA [ISKv02, Ogi02, SIOS02]. JAC [HL06]. Jaccard [YWR+19]. Jacobi [ADF+19, KYBV17, RR11]. JADE [FrRo19].


Java [Fox01, Fox05, Fox17a, HTW14, VC12, KvgS+14, SAdB+16, AJMJS05, AK01, ASS+05, AdScd+19, AFT01, Bac03, BVGVEA11, BVGVEAFG11, BHV05, BDT01, BP03, BK05, BSB+03, CM05, CG01, Cog03, Cog04, DVL13, EFG+03, EL01, EABVGV14, ETR+15, FR02, FT06, Fox17b, GYB+11, GE08, GPW03, GPW05, GS04b, HL13, HL06, HYX05, KHM+11a, KOB01, KBVP07, KSR14, KW01, KWK05, LH05, LXP18, LAL02, LLD08, LSW07, LWC17, LTK17, LGFM05, Lyo02, MLVB05, MCY+10, MGS19, MMG03,
NMMS01, NC05, NMKB03, OGA+01, PSM03, PPMH15, P5W11, Puf13, RTET15, RS12, RHT13, RCB03, RR01, Sch04, SDH+17, SCBH09, SM03, SGP12, SKR17, SPS17, SS19c, TTD+11, VDPC03, VHBB03, WCC15, WJH06, WBM+10, WK12, WCC04, XHH12, YP10, YKA+19, ZS01, ZYZ06, vHMB08, vNMW+05, vRKS03, vRS05. **Java** [vLFLG01, vLGL+02, vO01]. **Java-based** [AK01, MCY+10, NC05, vNMW+05]. **JavaBeans** [LR05, YAA07]. **JavaNws** [KW01]. **JavaScript** [GGC19, MGI17, VCP16]. **JavaSymphony** [FJ05]. **Jaya** [GAS19]. **Jcluster** [ZYZ06]. **JCSP** [WBM+10]. **Jeeg** [MS05]. **JEL** [DVNM+11a]. **Jenkins** [BBA18]. **Jetstream** [HSV+19]. **JI.FI** [BLA+14]. **Jigsaw** [CWL03]. **Jim** [Bou13]. **JIT** [GE06]. **JML** [MPHL03]. **Joint-analysis** [dRRdCRR16]. **JOPI** [AJMJS05]. **Jordan** [KS19c, Tan12]. **Jump** [WSWL12]. **Jump-start** [WSWL12]. **Jupyter** [YLH+19]. **just** [MGI17]. **just-in-time** [MGI17]. **JVM** [CG01, SD03]. **JVM98** [GPW05]. **JVMs** [STWSP12].
YTF'01, ZGL07, Zhu15, ZS19, FS07, LFH'08b, NZKK11, SPR'07, TMZ07, ZL06, Zhu07, ZDL07]. knowledge-based
[Can06, KBDA19, OKO18, YTF'01]. known [PCsHL18]. KOALA [ME08]. Krylov [MKSS16]. Kunlun [ZGRSC10]. KWATT [QEB'10].


Large [AML'15, HTR10, KBT'14, LW05, PDD14, RIP18, SL18, SVN12, AAE'09, BH09, BGGL07, BCM'07, BZDR'10, BMPS07, CEH'06, CHM15, CBQ'11, CGN15, CWM18, CPS'14, CDH'15, DVD'12, DLX'16, DOJ'19, DLM13, DP19, DZM'15, EBG501, ERZ'11, EJD17, FHO'15, FAPC16, FBV'13, HDFJJ0, HWQ'16, HLF'17, HWL18, JA008, JCK'13, JPWH02, KS11, KCZ'05, LME'19, LBV16, LXRJ13, LXW'16, LFZ'17, MZJ'19, MVWvM17, MSCS18, MFS'13, MCHY10, MKAKG14, MB14, MJD15, MJD17, Not16a, PTL'16, PAM'15, QZYZ16, QLS13, RVRD10, RKS02, RRR15, SN15, SK09, SLV12, SMM18, SCBH09, SGG09, SSIL19, SLM05, TJ17b, TJ17a, TTL06, TB06, TRH'02, TB12, VL17, WYX'17. WZXZ12, WSWL12, XBSX13, YWBS19, YLEB14, YMLR16, Zha19, ZYZ06, ZQ'16, ZHGX16, dCRS11]. large-data [CEH06]. Large-Scale [PDD14, HTR10, KBT'14, LW05, PDD14, BH09, BCM07, CHM15, CBQ'11, CGN15, CWM18, CPS'14, CDH'15, DLX'16, DP19, DZM'15, ERZ'11, FAPC16, HDFJJ0, HWQ'16, HLF'17, HWL18, JA008, JCK'13, JPWH02, KS11, KCZ'05, LME'19, LBV16, LXRJ13, LXW'16, LFZ'17, MZJ'19, MVWvM17, MSCS18, MCHY10, MB14, MJD15, MJD17, Not16a, PAM'15, QZYZ16, QLS13, RVRD10, RKS02, RRR15, SN15, SK09, SLV12, SMM18, SCBH09, SGG09, SSIL19, SLM05, TJ17b, TJ17a, TTL06, TB06, TRH'02, TB12, VL17, WYX'17. WZXZ12, WSWL12, XBSX13, YWBS19, YLEB14, YMLR16, Zha19, ZYZ06, ZQ'16, ZHGX16, dCRS11]. large-sized [FHO'15]. laser [DY'19]. latency [DGW16, ETR'15, LWF'15, MVWJ14, PRD'13]. latency-sensitive [DGW16]. latent [SIS19, ZWS18, DP19]. Latent-LSVM [DP19]. Latest [MPGD14, SMM13a]. Lattice [LMKT13, CGK'16, CNAQ18, MWS011, QWZ'19, RMW19, ZAB'19, BFM'10, VLJ17]. Lattice-based [LMKT13]. lattice-Boltzmann [MLWS11, RMLW19, VLJ17]. LAUP [BNNH19]. law [XL17]. Layer [HJTX17, EB10, HKA'15, KKH03, KR11, SKS'08, Tru15, WRLS12, YLL'18]. layer-based [KR11]. layered [DWC09, LDZ'15, LGQS12, LLH'18, OKP16]. layers [LZL17a]. layout [HP11, IT03, LHH'17, TB06, WFKS18]. LBM [VL17]. LC [LLLY09]. LC-GRFA [LLY09]. LCG [NCD'08]. LDA [GLD17]. LDPC [LLH'18, SCLK15]. LEACH [MSMA19]. LEAD [CM07a]. leader
leader-follower [ZCXH17]. leadership [JOK+18, LLT+14]. leading [DWC09]. Lean [BPS19]. leap [JTD+19]. Learning [GBZ+15, Mar19, ORDG15, ZWW+18, ZL06, ABR+06, BHD13, CCCW13, CLL+19, CZQ17, DFC12, DCK+18, DH13, ERZ+11, FHO+15, FE17, FSM+19, GLZ19, HAN19, HZL19, HCBRM16, Hey19, JyLdZ+18, KKD19, KTHA18, KSB+19, LLM19, LLH+09, Li18, LJJ18a, LLJ18b, LS19a, LDZ+19, MAVG16, MYS19, MSB17, MXP15, OHJ13, PZO19, PRC+14, Rojl9, SNIP14, SGJ+17, SM+07, TWZ+19, THQ19, VLL19, VRDTB+16, WF18, WML+19, WVL+17b, XJAJ18, YAG19, YZR14, YG19, ZBZ+18, ZLH+18, SW11]. Learning-based [ZWW+18, FE17, TWZ+19, WML+19, ZLH+18]. learnt [BLCC19]. least [ABV05, DMC+18, MLL+11, ZF18]. least-squares [ABV05, DMC+18]. Lecture [Bou13]. legacy [BR04, MMS07]. legends [BH05]. Legion [NNTH+02, NCWD+04]. length [CL14, MNL15, XXLL17]. less [DMA13, FNI17]. Lesser [ON01, ON02]. lessons [LLT+14, OGA+06]. Level [MP04, AAP13, BPL12, BDV02, BBA18, CAD+18, CK13, CCSS10, CCC12a, CCW+15, DA19, DNB19, DPGA11, GCO+14, GL19, GPW05, HJB12, KM03, KKKH03, KAP13, KJ+15, KMRT18, GLA15, LKCO8, LPY+08, LHH+17, LWC17, MH11, MG17, MPT07, MJ15, MCC16, NTK08, OGA+01, OT19, Pac16, Sor13, TTD+11, VS02, VFAD18, WBZ10, WCG16, WFKS18, XLY+16, YS07, ZLKK17, ZZZ+15, dCHMJ12, dRC10]. levels [CSB+16, GKP13, JMF09, KG19, SLB08]. levelset [FYKW15]. Leveraging [BBW19, KOOB15, PFG19, TWW+19, GKG+04, LDG15, Mit17c]. LFTM [MMBP12]. LFU [BBC16]. LHCb [SRTG+07]. libraries [ASS08, BHL+09, CL01, MD02, TTD+11]. library [AMH11, CAD+18, CSWB11, GDMT+12, HKRR08, JKM+17, KS05, ON01, ON02, SSU18, YB12, VFAD17, vWAH+02]. Life [LD15, Qiu11, QFG14, QFT14, ACC+15, Bou13, GvH11, OGA+06, RTPH12, SR19c, YWLQ18, OKG18]. Lifemapper [WSP17]. lifetime [CLH13, DMA13, KCB17]. lifetime-aware [CLH13]. lifetime-driven [DMA13]. ligand [EBD14, TCP+05]. Light [JSR+19a, BJ17, LTL19b, ON01]. light-weight [ON01]. lightpath [MVwM+17]. lightpath-connected [MVwM+17]. Lightweight [BNH19, FLB+05, NR08, SWP17, Bac03, BC16, BBB16, C1Z+15, CCL+17, FLL+14, JZJW15, KN01, ON02, QWW+16, RBB+09, WXX12, XXY19, vRS05]. like [CCG+08, KOB1, TWN07, YXL18]. likelihood [SLM04]. likelihood-based [SLM04]. limitation [RSP17]. limited [KTZ+18]. limits [BGGS14]. Linda [BDM18, Men03, WCC04]. line [CRC15a, DMR+07, ESGQ+11, gGWXT09, HK01, NA15, VB16, WFKS18, WKL14, YZ19, YESG+19]. line/off [gGWXT09]. linear [AAC+15, ABC19, ADI+14, ADF+19, BHL+09, BLL18, CC13, CL18, CL14, CNP+15, CGGH17, DK09, DLH01, LHY12, HAA+17, JSS07, KD07, KLDB10, MSK19, Nak02, OHJ13, PZH+15, SD15, SLB08, YSWZ17, ZWT+18]. linear-time [DLH01, PZH+15]. linearizability [Low17]. linearly
JCP15, JBL16, JM19, JJGL13, JSG17, KSS+17, KCKC15, KMG+18, KO06, 
KF18, KTB04, KTZ+18, KN19, LFP01, LME+19, LHHJ18, LZC09, 
LCNY11, LAB+06, LHXY08, LDS+08, MABP13, MBP16, MMW+12, Men03, 
MB18, MVML11, MS19, NDT+16, OCS01, PYKL16, PVCS18, Pat08, 
PAM+15, PS13, PXY+07, RRRB11, RSKK19, RAFC14, SMH+19, SIST18, 
SGC08, SAC04, SPJ14, SWW+16, TCDM+17, TC12, VCP16, VvSI07, 
WYBS16, WWX+19, WNT02, WWY+10, YLR+13, YESG+17b]. 
management [YESG+17a, YYS15, YLJZ13, Yu18, ZABP18, ZYFZ19, 
ZLC17a, ZWX16b, BD04, MP04]. manager [MRS+10]. Managing 
[BZDr+10, GGFGB14, HK02, JKL19, Kes04, Zic12, DFLNP07, HCG07, 
Mit17b, SMY+15, VH12]. MANET 
[AG17a, BKA19, KBDA19, MBB19, SM19b]. MANETs [ASE+17]. 
Manhattan [ZWXS19]. Manhattan-distance-constrained [ZWXS19]. 
manner [ZCL+18]. Manual [AdCPdSD17]. Manufacturing 
[Bai17, FD01, GRQ19a, LZW+17a, LS19b, LLY19c]. Many 
[CDiO+11, ZYH09, ZQH12, BHB13, BRCV16, CPEA18, CLF+19, CS17, 
CZL12, CLR15, DLZ16, DLK+18, ELM+16, GPPR17, HCD+18, HT15, 
HvNJB15, HFR+17, JISR19, JPS17, KQR+17, LGLA15, LL16a, MCP+12, 
MM17, RLMG16, SPQ+17, VDL+15, YLY04, ZXC+19, ZYH12]. Many-Core 
[ZQH12, ZYH09, BHB13, BRCV16, CPEA18, CLF+19, CS17, CZL12, 
CLR15, DLZ16, DLK+18, ELM+16, HvNJB15, HFR+17, JISR19b, JPS17, 
LGLA15, LL16a, MCP+12, MM17, RLMG16, SPQ+17, ZYH12]. 
many-objective [ZXC+19]. many-task [KQR+17]. many-to-many 
[YLY04]. Manycore [LOS17, CKL17, CGGH17, SSMB13, RGB+15]. 
Manycores [BL17, BH16]. map 
[AJY+15, Ano06, BFR05, DIK14, LZY+16, YYLC19, MWL18, SS07]. 
map-reduce [DIK14, MWR18]. mapping [Ano06, BFR05, CT11b, CDN15, 
DST11, GFL04, KSB+19, KTM+09, LLT+19a, MPS11, PZ11, QZL18, 
RMCN+07, SW09, SSU18, VSR+09, ZDR+18]. mappings [ATI17]. 
MapReduce [AFG16, BCCM16, DLX+16, DGL+12, DAL15, Fed13, IHA+15, 
KF15, KAA19, LWFL14, LH17, LWZ+17, LMX+18, LPG+14, MMW16, 
MLYL17, RM19, RTM13, SGCA+16, SB19a, THF15, TLX+17, UMD+13, 
VJK13, YXLZ16, YWT+12, ZF18, ZCL14, ZL16]. MapReduce-based 
[DLX+16, LMX+18, RM19]. MapReduce-supported [DGL+12]. maps 
[Del08, LWW+19, LHXV08, Ris04, XDE+04]. maps-based [LWW+19]. 
marching [FRKS12]. margin [TJ16]. marginal [WFS+19]. Marine 
[MMG+18, LLRS03]. maritime [WTEG17]. Market 
[VDB09, CAC15, GS04a, JHC19, KD15]. Market-based [VDB09, GS04a]. 
marketing [DFG18b]. markets [GCO+14, GVK12, MRS+10]. MARKOV 
[MBB19, EMEY14, HPD+15, WYY+19, ZACG16]. Markov-based 
[WYY+19]. Markovian [DPS07, XWD+12, ZHM+17]. MASA 
dFdOSR+19]. MASA-OpenCL [dFdOSR+19]. mashup [WZT11]. 
masking [PJW+14]. mass [BRWB06, HKG08, WJP14, YG19]. massive 
[CZL+17, EFM17, FLYL16, MMW16, MWL+15, MCXP15, PWC+14, PW12,
[LBJ+19]. members [LZWD+15]. membership [YWBS19]. Membrane [QLF+06]. Memoization [RSN+19, MB16]. MEMoMR [YXLZ16]. Memory [SBDP15, AAW+02, AMABS18, ACG17, BP17, BB02, BDV02, CACC11, CJX+19, CBP02, CLH+11, CLT+16, DFC13, DVL13, DC19b, DS15, DLT+16, EME19, GTF13, GYB+11, HTI05, JLT06, KBDA19, KO06, KC06, LCA+19, LLD08, LPC+14, LSL+17, MY17, MVWJ14, MLC04, MLP04, NPL19, PCVZ+04, RCM12, RLGG15, SGJ+17, SGD+18, SSV19, SS07, SS15c, VL17, WS09, WFKS18, WvP+09, XJAJ18, YGL05, YWY+10, YS15, YHH13, ZJS+17, ZXX17, ZLQ+18, ZDR+18, ZHX+19]. memory-aided [KBDA19]. memory-based [AMABS18]. memory-supported [RCM12]. mem [GR13]. Mesh [BOB13, OKM10, CC13, DEF08, Fer13, Fer15, LB11, RLMG16, SGD+18, VL17, WO02, XJZ13, XWX+19, YHHS16, ZWXS19]. meshes [FYKW15]. mesoscale [BDY02]. message [AD02, BCM+07, BMA03, BBD10, BHBD13, CMMS17, EN16, Gog11, Hdv13, MP05, NMKB03, OKW15, PFU+05, RMG+10, RM11, SVS+08, SSZ14, WKL14, WDW+15, AMHC11, SWL+01]. message-oriented [MP05]. message-passing [BCM+07, RMG+10, RM11, SVS+08, SSZ14]. messages [LCM+17, ZQZ+16]. meta [BKCP09, HPHB+15, XZZ+16a]. meta-analysis [XZZ+16a]. meta-predictor [BKCP09]. meta-workflows [HPHB+15]. Metadatas [AFPO08, DVL13, DXZ+16, GD08, GBG+14, KKL09, SK08, dCHMJ12]. metagenomics [WWG+11]. metagenerics [GVRC+10, MM17, PSICU18]. metaphoric [PdCMdS+12]. metascheduler [CRCC09, CHL15]. Meteor [JQSP08]. metering [SZH17]. Method [BVGVEAFG11, NMMIS01, Akt18b, AS15, BJ01, BDZ19, BV16, BEQR17, BGM03, CACC11, CJX+19, CW11b, CNAQ18, CL19, CNP+15, cDrLyC+19, DMD+17, DLW19, DYY+19, EN19, FCH17, FNN17, GOTW04, GPW05, HLF+17, HWZ18, HYXJ18, HYGF19, JHCH19, JYJ19, KS19a, KS19b, KJ+15, KZY15, KZY+18, KC13, KW19b, LWZ+17, Li19, LDXC13, LHBB15, LFH08a, LS07, LC14, MKB01, MO02a, MRH14, NJZ19, PPR19, PCD15, PKB19, QLF+06, QLD+11, RMW19, Roj19, SIIH19, SGR19, SWZ+18, SS19c, SLC+18, SLC+19, TCP+05, WBD+19, WJD13, WT+19, WFS+19, YUC10, YLD13, YG14, YQW17, YYXX19, YY19, YYWQ19, YZ10, ZAB+19, ZZYY10, ZDC15, ZBZ+18, ZHC+18, ZXRZ19, ZGL19, ZLL19, ZWW14, AS15]. method-level [GPW05]. methodological [GVC10, MCCG11]. methodologies [PPST09]. Methodology [LG08, ZRB19, ANK+17, FTRA15, HvNB15, KO012, MHK+18, MDX14, MCS18, MJ19, PCF+17, RLC16, SC07b, TWB13, Zen19b]. Methods [BBBW17, GGS+16, MÔÔ17, Qi11, QFG14, QT14, AM01, BFK+17, DFTHD18, DGJ11, DS17, Dra15, GMVRGS15, GS03, GRS+17, GCPS+14, HR18, JSS07, KJ19b, KRS11, KW18, LW05, LY14, MGBC16, MMB+17, MKS16, MB02, QH10, SE01, YDB+13]. metric [CT16, NvV09, WLF14]. metrics [FJG+13, GGS+16, OORVB14, vAVS12]. metro [NFG19]. MFCC [LLLS18]. MFCC-based [LLLS18]. MFI [GPS+07]. MG [WW+11].
GBSHA01, HKA+15, JRHJ16, JLHH14, JVP118, KOO12, KKK10, LYF+17, LHT+09, MTM19, MSMA19, MABP13, MBP16, MDX14, MM19, Not16b, PYKL16, PGK11, PC1D15, PRG01, QKSJ07, QMK12, RSPV17, RHS17, Sha15, SR17, SKB+17, SS15b, SSC+16, TC17, VLIW19, VT15, WHXzL15, WZS+15, WWL+17a, XY17, YCW08, YWM+10, YCW07, YNX+16, Zen19a, ZMZD11, ZY12, ZZ18, ZFWJ19, vHMB08, DD16, JM19, MWJ+10.

Mobile-Grid [MWJ+10]. Mobility [Den07, CLR18, MBP16, MJ11]. modal [YC19b]. mode [AAJ17, AR19, KB18, LHB+19, PLL17, XS19].

mode-directed [AR19]. Model [CLR18, LGG16, MK12, YC19b, ABGT+12, ASWR12, AMGCC17, AKN+06, ABG+13, Bae03, BV16, BVGVEA11, BCCM16, BCdICT06, BLL+19, BXLJ16, BDY02, BBB+14, BAZ09, BBD10, BDG+10, BBSW17, C01, CAC+08, CTY15, CZW07, CXPL15, CWXW16, CLF+19, CN16, DD17, DCJ14, DWC09, DLZ16, DNB19, DCH11, EMH14, EIJ15, FCY17, FeC12, FV+17, GQ04, GD06, GWVP+14, GC18, Gao19, GKM19, GVP+14, HZHP09, HW16, HY12, ID18, JAA08, KSS19, KCD19, KA09, KV12, KCW09, KKK+19, KML17b, KX5+15, LVN+12, Lan17, LIWS09, LKPM09, LXP+12, LZT12, LLX+15a, LZL+17b, LLY+19a, LSS19, LZG+19, LF17, CLC+17, LHB+19, LFH08a, LZC08, LZC09, LWLZ11, LXW17, LL19b, LLRS19, LSP15, MLS+15, MLG15, MTG17, MS13, MRMC15, MHH16, MZW+16, MBC+14, ML19b, MM19, MG+08, MSV+10, MCC16, MKSS16, NO02, PP17, PAdS+17, PSW11, RZL+19, RCR+15, RHL+18, SMH+19].

Model-based [LLG16, BAZ09, EMH14, Lan17, PSS11, YHH13, ZQMC19]. model [SNH15, SS17a, SJW18, SKK01, Sk04, SvDO15, SS18, SR17, SSZ14, SE01, SR19c, SS19c, SZR16, TYYL12, TCSBM17, TFG+12, TZZ112, TLPS18, TW07, TMA03, TSK18, Tru15, VCW13, WCZ16, WLZ17, WZL+17a, WDQ+18, WBB+07, WYY+19, XDL+11, XZT10, XLH17, XDP18, XHD+19, XXY+16, YG05, YKL17, Yn19a, YC19a, YLZ18, YHJ+14, YXW17, YYW19, YHH13, YLZ13, ZQL12, ZCL14, ZSL+15, ZH16, ZWL16, ZXX17, ZZY+15, ZLQ+18, ZQMC19, ZSL+18, Zhu18, ZW1+19, ZCS06, Zhu07, dP06, vHvdSvL03, vdABST10, dF09, PGW06, PXY+07].

Model-driven [KHZ+15, XDL+11]. Modelling [ADM014, Bai17, CGIP16, DDL16, DLH01, DAL15, DPP+19, FPC15, JB19, MBC+14, RR515, SPZ+10, SZT19, WMA07, XRD+17, XXW+17, Zho06, ZBC+07, ZYL+08, ACC+12, AHP+13, BM20, CCC+16, CLZ10, CSB+16, Cu11, Dra15, FRU12, GRQ19b, GA+06, GW15, JVN19, LLX+15a, LBDS15, PSIP16, RGAK15, SB18, SKR17, SB17, SAM+17, TSL+19, TMR+07, TSS18, XWFH08, XM02, ZDA+07, ZJT+19, ZGL19, ZAGC16, ZABP18].

Modelling [MS10, XHW+19, BBP05, BWHS18, BBGA03, Eng15, GPP+18, IAH+15, LG08, LJML10, PIGK16, RW10, dFilmSPS06, SCV+08, VGL06, vSB06].

Models [BL17, BJ18, Fox10, LLMK18, OM06b, SRdS09, AGMR05, AFG+05, ABDR13, BH16, BDY03, BAGS02, CLH+08, CLR15, DvdS06, DLM13, GRS+17, HHTW16, HPD+15, HWZ08, JDH+18, JAU19, KTHA18, KD19,
KSG11, KKG004, KSB+19, LLM19, LPA+08, MAVG16, MMSG17, MLP04, MSG10, OKM10, OHJ13, PRNM19, Qia19, SNEP14, SK17, TSL15, TLWZ14, VYK+10, WDT18, WCLC13, YTL19, YOBS16, ZIC15, Zho06, ZBC+07, ZDC+09, ZLA+15, vdS06b. Modern [Wu18, ABM4AMF19, BCI+09, CGST17, HTHW16, MMSG17, PA18].

modes [JMF09, RR11]. Modified [IC19, SS19a, ZCW+18, ZCH+18].

Modifying [VˇSC17]. Modular [IC19, SS19a, ZCW+18, ZCH+18].

Modular [IC19, SS19a, ZCW+18, ZCH+18].

MOPSO [WSZ+18]. morphological [KL19].

Morton [TBK06]. MoSGrid [HPHB+09].

most [EZJ+18]. motif [DRZ13, FMS15].

Motive [BT19]. Mover [AC08]. Moving [LTKF11, ATSAK15, DMC+18, LOSJ17]. MpCCI [JK06]. MPDATA [RIWS17, RKW17].

MPI [ABF+17, BDB+13, BR04, BBW19, CC10, CDMS15, DL10, DBB+16, EDSV09, FA18, FMS15, FLB+05, GRW+19, HRR+11, KC06, LGG16, LL01, LZO+02, LKJ03, LCC+03, LKYS04, LSK04, MTK16, MvWL+10, NO02, NSBR07, PDY14, PTL+16, QB12, WLR05, YWC11].

MPI/RT-1.1 [SKD+04].

MPI/RT [SKD+04]. MPI2017 [MvWL+10]. mpiBLAST [YHK09].

MPI-30 [LZC+02, LKJ+19].


MSBNs [AC09]. MTA [BS04]. MTA-2 [BS04]. MTD [YC19a].

Multi [AR19, BAT13, CCC12a, CWYX17, CNAQ18, CCTW11, DZL+19, DL07, EJD17, KS19b, KHI2, LJT+19a, ML17, OKP16, RHuR+19, SG18, TSL15, WJ12, WB+03, XZ09, ZWH+19, ZWH09, ALKD16, AT01, AFGL09, AYN+14, ART14, AMTM17, ACCM17, BPL12, BIK+11, BKS+15, BDY03, BRVC16, CPEA18, dCPD13, CGMJ+19, CKOG10, CZG16, CZL+17, CLW+18, CCW+15, CZZ+15b, CGN15, CN16, DCJ12, DIM18, DS19, DMC+18, DCC18, DLZ16, DP19, DWC+15, DYY+19, DXZ+16, DA15, EFG+03, EHSU07, EJF+16, EFA+17, GW17, GKP+19, GLM+16, GMMT17, GPVCDBro12, HJBJ12, HTHW16, HKAC14, HSL19, HFR+17, HM16,
HAA$^{+07}$, HAA$^{+17}$, IZXM09, JvAB$^{+15}$, JCVU15, JC07, JQL$^{+15}$, JL10, JSR19b, J09, JK10, JPS17, KSG11, KOOB15, KW19b, KN19, LDPZ14, LXW$^{+16}$, LQL$^{+17a}$, LPS$^{+08}$, MQP$^{+09}$, LSMVML15, LXX$^{+19}$, MGBC16, MHL$^{+05}$, MS07, MFG$^{+13}$, MH07, MSB17, MML16, MLVBW12, ML$^{+10}$].

multi [OLG$^{+15}$, OAS$^{+15}$, OM$^{+06a}$, PPS16, PZ11, PRT09, PTC07, PSICU18, PS19b, PsF13, QCB17, RBH$^{+11}$, RHL$^{+18}$, SKK02, SAD13, SLV12, SGM19, SAP16, SPW09, SSMF18, STL$^{+15}$, SVN12, TYL$^{+15}$, TL19, TKS18, TMAG03, VGN$^{+16}$, VLF$^{+13}$, WLWX14, WJYH16, WLWX16, WF$^{+08}$, XLHT17, YCL11, Yan19a, YKA$^{+19}$, YYYH19, ZSWS18, ZWL$^{+13}$, ZLL19, ZM13, ZQZ$^{+16}$, ZDR$^{+18}$, ZCL$^{+18}$, ZZZ$^{+15}$, ZJL15, ZJL$^{+17a}$, ZTG17, dCRS11, vdKEL10, SAP16].

Multi- [ZYH09, CPE18].

multi-agent [CGN15, CN16, ETF17, GPVCdBRO12, HM16, KN19, OM$^{+06a}$, RHL$^{+18}$, TL19].

multi-asset [DCJ12].

multi-attribute [PS19b].

Multi-authority [ZWY19].

multi-channel [DXZ16].

multi-class [DP19].

multi-cloud [LSMVM15, QCB17, SWU$^{+16}$].

multi-visibility [Jon09, YCL11].

multi-component [ALKD16, EJF$^{+16}$, SVN12].

multi-constraint [SKK02].

multi-coprocessor [DWC15].

Multi-core [XZ09, AYN$^{+14}$, ART14, AMTM17, ACC11, BRCV16, CZG16, CZL$^{+17}$, GLM$^{+16}$, HTHW16, HKAC14, HFR$^{+17}$, IZXM09, JSR19b, JPS17, KSG11, KW19b, LQL$^{+09}$, MGBC16, MSB17, OAS$^{+15}$, PZ11, RBH$^{+11}$, SPW09, STL$^{+15}$, SEF$^{+14}$, TYL$^{+15}$, WJYH16, ZL$^{+17a}$].

multi-cores [BKSM15, ZQZ$^{+16}$, ZDR18].

multi-CPU [SAP16].

multi-CPU/multi-GPU [SAP16].

Multi-criteria [KS19b].

multi-datacenter [ZWY$^{+19}$].

multi-datacenter [ZWL$^{+13}$].

Multi-dimensional [AR19, CWYX17, DM$^{+18}$, DCCZ18, JQL$^{+15}$, ZM13].

multi-disk [DYY$^{+19}$].

multi-domain [SCGZ19, ZTG17].

multi-exponentiations [TKS18].

multi-functional [LDPZ14].

Multi-GPU [CNAQ18, KH12, GMMT17, VLF$^{+13}$, ZCL$^{+18}$, dCRS11, SAP16].

multi-GPUs [CGMJ$^{+19}$, PSICU18].

multi-grained [MDL$^{+10}$].

multi-granularity [YKA$^{+19}$].

multi-graphics [GWW17, OLG$^{+15}$, ZDL13].

Multi-hop [BAT13, MS07].

multi-infrastructure [JvAB$^{+15}$].

Multi-installment [DL07].

multi-features [SAP16].

Multi-label [DZL19].

multi-language [HAA$^{+07}$, PTC07].

Multi-layered [OKP16].

multi-layers [LZL17a].

Multi-level [CCC12a, BPL12, CCW$^{+15}$, JHJB12, LPS$^{+08}$, WFKS18, ZZZ$^{+15}$].

multi-linear [HAA$^{+17}$].

multi-linear [HAA$^{+17}$].

Multi-objective [RKH19, SG18, DS19, GK$^{+19}$, JCVU15, JC07, KOOB15, MHL$^{+05}$, XHLT17, vdKEL10].

Multi-organization [CCTW11, PRT09].

multi-party [WLWX14, WLWX16].

multi-phase [LXW$^{+16}$].

multi-powermode [JL10].

multi-processor [AFGL09, MGBC16, Puf13].

multi-programmed [CZG16].

multi-query [CLW$^{+18}$].

multi-rate [DA15].

multi-relational [ZSWS18].

multi-resource [LTT$^{+19}$].

multi-rotor [YYZH19].

Multi-scale [EJD17, WJ12, SLV12].

multi-server
[YKD+15]. Multiscale [GBB+15, CNAQ18, KW19b]. Multisensor [JLQ+17, KC18]. multisite [DST11]. multitasking [IOOH12, MÖO17]. multithread [CGIP16]. multithreaded [ABC+15, AAC+15, AR19, BHA15a, BS10, BC14, GRS06, GA09, PS07, RS07, TKA02, WT10].
multithreading [BCM+07, CCC12a, GE08, KIM+03, LZW17b, MIGA18, MKIO04, PHCR09].

Near-optimal [XWH+17]. near-perfect [JCVU15]. Nearest [CACC11, AT14, KH12, ZZL+19]. nearly [LZWD+15]. Neat [BB15]. necessary [LFG05]. need [MRS+09]. negative [HLW+19, MKO+17a]. negotiation [ADSV16, CK13, CDL08, KZY15, RCKV12]. negotiation-based [KZY15]. neighbor [KH12, QW17, ZZL+19]. Neighborhood [WXSH19]. neighbors [AT14, CACC11]. Neighbourhood [De08, ANH16, ZQK15]. neighbourhood-pair [ANH16]. NERSC [DAC+18, HCD+18]. Nested [RHL+18, TXY+16, ZLKK17]. net [GBH+06, MS19, PP17, SS17a, WDQ+18, XWD+12, SGG07]. net-based [MS19, SS17a, WDQ+18, XWD+12]. NetBuild [MD02]. netCDF [LGL+17]. netCDF-based [LGL+17]. nets [DPS07, MRMC15, TDL+18, EB10]. nets-based [MRMC15]. NetSolve [ACD02]. Network [DCP+17, HF17, Jon09, MRL16, XZ09, ZWH+17, AI17, AAQAR+17, ACGG06, AVS+19, AZF+12, AKW04, BDZ19, BBK11, BDF15, BSZ09, CEH+06, Cll+18, CRCC09, CCK+17, CLXZ10, CZ11, CWX16, CDdW17, CRKO13, CSB+16, CT11b, CDF+17, CM18, CS13, DFLNP07, DGL+12, DK19b, FFA+17, GZG+16, GBMM15, GGC19, GSK19, GKM19, HM12, HDX+17, HL19, HYX05, IFTQ13, IZX09, JCI17, JHCH19, JWW17, JK10, Jun16, KHH13, KHL17b, KJ19b, KKT13, KC18, KWXY18, LL19, LJPP16, LDPZ14, LL15, LAL17a, LCW+19, LL19b, LL19a, LDXC13, LLyL16, Lyc16, LWY+17, LAL02, LMDP19, MTM19, MTGZ17, MS07,
MAS^+14, MRP^+18, NSSAK13, NSSAK16, NQL^+17, NJM19, Not16b, OORVB14, PFC14, PCSHL18, PZH^+15, PAM^+15, QD17, QZH16, SJ19, SFCAV16, SZH17, SMS^+19, SK17, SZG^+19, SPW09, SR19c, SG18, SRR19, Tan15, TYTY15, TC17, TPV17, UL03, WLZ11]. network [WMA07, WLP^+17, Wan18a, WGQ^+18, WWX^+19, cWsThY19, WL02, XWX^+17, XGC19, XTH12, XADLC15, XBW^+15, XZZ^+16a, XLL^+15, XL17, YCZ^+13, YWLQ18, YLLC18, YY19, YLZ18, ZPG10, ZY12, ZSL^+15, ZWL16, ZHC^+18, ZL19, ZGL19, ZJ19, ZWXS19, ZZZX19, ZKJ^+07, ZHGX16, ZCXH17, ZYL^+08, ZZ11, LLX15b, PS19a]. Network-aware [DCP^+17, Jon09, MRL16, CEH^06, CRCC09]. network-based [EFA^+17, HFTQ13, JWW17, LAL02, ZZZX19]. network-bound [CT11b]. network-enabled [DFLNP07]. Network-on [PS19a]. network-on-chip [XLL^+15]. networked [CRGR^12, LLD19, LLL15, WR17]. Networking [SCGZ19, ZDL07, DAC^+18, JZJW15, LCM^+17, RS13, RLVRGÁ14, SCLL19, WHXZ15, Zhu07]. Networks [AM07, HJTX17, SG19, XLWX11, AKMZ13, Aia15, AQA^+18, AS15, AAf17, AHA18, AMP^+18, ALL^+15, BA19, BDJ^+19, BPdM06, BNNH19, BN19, BFH17, BBB16, BAT13, CLL^+18, CLX07, CGMJ^+19, CQWX14, CWYX17, CPD^+17, CL13, CGKW13, CFP^03, CFTT17, CCM^+17, CNPP09, CSAC19, CLW^+15, CEB^+18, CMD17, DLJ15, DLPV07, DGM18, DFC12, De08, DGW16, De07, DFH13, FBV^+17, GS08, GHMX13, GGFPGB14, GL16, GB19, HZA^+14, HKA^+15, HWQ^+16, HLF^+17, HCS18, HLG17, IHB15, JZJW15, KOO12, KKK10, KDW^+17, LCA^+19, Li04, LXP^+12, LL13, LLC^+15a, LWG^+15, LMD19, LPP19, LLL15, LWG^+15, LGY17, LFZ07, LAM^+09, LMO15, LCMY13, LZZ^+17b, LXL^+09, MSMA19, MVWJ14, MZ06, MDX14, MMBP12]. networks [MOK04, MLRR09, MO15, NLFA19, ORdSL13, OEP^+15, OKBO19, PB19a, PF12, PMB15, PY19, PC15, PS19b, QLLS15, QWW^+16, QKSJ07, QMK12, RC19, RNJM17, RSPV17, RMP13b, RH07, SAOKM04, SSC17a, SWS^+18, SK17, SGCG09, SC07a, SAM^+17, TKHA13, TAMC19, TZY13, TZG^+19, TLWX14, Tru15, UG18, VS19, VRD16, VS17, WTEG17, WBZ10, WYQ^+13, WZS^+15, WWL^+17a, WMC17, WC18, WXZ19, WDX19, XBG17, XBCW19, XCM18, XH17, XJZ13, XGH15, XZT^+11, XLL^+12, XLL^+18, YBO10, YGW17, YHHS16, YKD^+15, YYZ^+17, YESG^+17b, YESG^+17a, YESG^+19, YWW^+10, YQL^+15, YL13, YML16, ZK08, ZL19, ZS18, ZQL12, ZJL13, ZGS17, ZLA^+17, ZDL19, ZYY^+19, ZACG16, ZFW^+17, ZHX^+19, ZGX11, ZLA^+15, ZSS06, ZWK17, ZTG17, dCRS11, dCHMJ12]. networks-on-chip [GGFPGB14]. Neural [EFA^+17, ACGG06, CGMJ^+19, DFC12, DMM^+07, JWW17, LCW^+19, LTS19b, LLZ^+17b, ML19b, QXS^+17, RTR19, TLPS18, Wan18a, WCZ^+18, WWX^+19, cWsThY19, YWLQ18, YY19, YYZ^+17, YLZ18, ZL19, ZGL19, ZLW^+18, ZZZX19, ZCXH17]. neuron [KCD19]. neuronal [dCRS11].
Neuroscience [BDMM+05, SBJ+15, SvDO15, SMY+15]. neutrality
[YLLC18]. Neutralizer [YDL09]. Neutron [CGK+07, CGK+07]. news
[LLZ+17a, PB19a, ZW09]. NEWT [CS15]. Newton [vEGW06]. Next
[Ang07, Can06, CS06, Aia15, CDL08, CPS+14, GPS+07, KMJ14, KJ19b,
MSL+14, UAW09]. Next-generation
[Ang07, Can06, CS06, CPS+14, GPS+07, KMJ14, MSL+14]. ng [RHD+16].
[NK19]. NMOS [GZHF19]. no
[LSS15]. Noah [BDG08]. NoC [PS19a, GGLD11].
NoCs [ZLC17b]. Node [BSB19, SCLL19, CEB+18, DLJ15, DDX+06, HJB12,
MLWA19, SS18, XGKH15, ZQLZ12, ZQW+17]. nodes [AMVOSGAC17,
DWC+15, GSK19, LWY+17, MMB+17, PGL+17, VJ19]. noise
[GK09, LLY+19a, LHZS19, PWJ10, SS19b, SM19c, XLYX11a]. noises
[TL19]. Non
[BVIB19, BCM15, YTD17, ANH+19, CLW+19, CL18, CLH+11, CS17,
GPS+07, LLH+18, LLYL09, SJVR15, SSMB15, TVCB18, WBD+19,
XWD+12, YWLQ18, YESG+19, Zhu19, dSGD14]. non-binary
[LLH+18]. non-cache-coherent [CS17]. Non-clairvoyant
[BCM15, dSGD14]. non-deterministic [ANH+19, SSMB15].
nondominated [SJVR15, WBD+19]. non-Gaussian [Zhu19]. Non-GPU-resident
[YTD17]. non-intrusive [CLW+19]. non-life [YWQ18]. non-linear
[CL18]. non-Markovian [GPS+07, WBD+19]. Non-Minimal
[BVIB19, YESG+19]. non-singleton [TVCB18].
non-uniform [LLH+19, LLYL09]. Nonblocking
[RTET15]. nonblocking
[DGW16]. noncooperative [Zen19a]. Nonintrusive
[TC12]. Nonlinear
[LW13, CMH15, DS15, VDPC03, ZCHX17]. non-negative
[ZF18]. non-repudiation [HIPL16]. nonseparable [CMVRVGI17].
nonsubsampled [PJW+14]. nonuniform
[XQXH15]. NONIA [MRMC15]. normal
[SRR19]. normalized [PLL14]. North
[ZZYW10]. NoSQL
[HWZ+15, HYW+17]. Note
[An13, An15d, An15b, AN15c, LS19b, RBNG15]. note-enterprises
[LS19a]. nothing [BOF15]. notifications [BVIB19]. Novel
[LC19, SIS17, ABFL17, BOB13, GWW17, GVS+17, HZHP09, HYX+12, HYLG15,
HCG07, JML+16, JN03, KT19a, LSH+16, LWZ+17, MIZJ17, MTGZ17, Mos19,
PZH+15, PSIP16, RMCHM15, SQS+19, SLC+18, SLC+19, SM19c, VJ19,
VRDTP+16, WZL+17a, WW19, WZXZ12, XZHW09, YLL18, YLYC19].
Novo
[LLG16a, Novo-G# [LLG16a]. NPCA
[NCW+04, PKB03]. Nsp
[CL14]. NT
[KH01]. Nu
[BTCGL17]. nuclear
[DGR+07, GIVRC+10].
nucleation
[HTR10]. null
[MKO+17a]. NUMA
[Chao03, ZJL15]. number
[KMRT18, LMO15, PPMH15]. numbers
[RTPPH12]. Numerical
[LOWH19, LLWY18, MZB+12, HR10, MAVG16, MM02, Nob08]. numerics
[TGB+10]. NVIDIA
[LSH+16, VLMP+18, VFG11]. NWChem
[HKS+12].

O
[EFM17, LFG05, BFL+10, BKND16, BDT01, Hic18, JCJ17, LGL+17,
LQL09, LLT+14, LFG05, PLM+19, WTL+16, YLL+18]. O-intensive
[PLW+18]. O2O
[YU18]. OaaS
[FTR15]. OB
[XHCL15]. Obfuscation
Obituary [OS09]. Object [EB05, HWR03, SWL+01, VJHB05, AM01, AJMJS05, Bac03, BGM03, BKCP09, BP03, CL01, CMPT08, CGS15, CM02, DLH01, GKG+04, HmLGp03, HK02, HPS12, HCK+08, JM19, JL10, KL19, KS04, LVN+12, LK03, LH05, MP03, NMKB03, OCS01, OrdSL13, Pre01, QSMK04, Rj01, dFMSpS06, SKK01, YB12, GMF01].

Object-based [BKCP09, CM02, HCK+08, NMKB03]. Object-oriented [EB05, HWR03, SWL+01, AM01, CL01, CGS15, DLH01, GKG+04, HmLGp03, HK02, KS04, OCS01, QSMK04, Rj01, SKK01, YB12, GMF01].

Object-passing [AJMJS05].

Object-oriented [EB05, HWR03, SWL+01, AM01, CL01, CGS15, DLH01, GKG+04, HmLGp03, HK02, KS04, OCS01, QSMK04, Rj01, SKK01, YB12, GMF01].

Object-oriented [EB05, HWR03, SWL+01, AM01, CL01, CGS15, DLH01, GKG+04, HmLGp03, HK02, KS04, OCS01, QSMK04, Rj01, SKK01, YB12, GMF01].

Object-based [BKCP09, CM02, HCK+08, NMKB03]. Object-oriented [EB05, HWR03, SWL+01, AM01, CL01, CGS15, DLH01, GKG+04, HmLGp03, HK02, KS04, OCS01, QSMK04, Rj01, SKK01, YB12, GMF01].
OpenCL [ABDP15, CBIGL19, FE17, FVLS15, dFdOSR+19, JKM+17, LL16c, SAP16, WJP14, ZWL+17]. OpenCL-accelerated [ZWL+17].
OpenMP [CLYC16, CBPP02, FSG19, GG09, HDDG09, JCP15, KOB01, KBVP07, KBG+09, KC06, LHC+07, LL01, MLCO4, Nob08, VDL+15, YWC11].
OpenMP-like [KOB01]. OpenMP-oriented [MLC04]. OpenFlow [GCWE15, NIIU17].
OpenFOAM [XWX+19]. opening [LZC14]. OpenISA [AMB+17].
OpenMP [CLYC16, CBPP02, FSG19, GG09, HDDG09, JCP15, KOB01, KBVP07, KBG+09, KC06, LHC+07, LL01, MLCO4, Nob08, VDL+15, YWC11].
OpenMP-like [KOB01]. OpenMP-oriented [MLC04]. OpenPOWER [KS19c]. OpenStack [BB15, MML+17, TKB16].
OpenTuner [BAG17]. OpenUH [LHC+07]. operating [Cha03, LBDS15, MW18, PT12, SZR16, YL01]. operation [LME+19, LZG+19, IWLZ11, IWL+19, ON02, OKW18, PCSVZ+04, SRM+15, SSMB15, YYS15]. operational [YGL05].
Optimally [MUKY18]. optimisation [JCVU15, KKL09, LL16c, NPL19, SAdB+16, VHBB03, VCW13, dARP17]. optimize [BBW19, LS19b, TLM17]. Optimized [GAB19, KJD19, KL12a, ZJKL10, ABF+10, BWD15, FNI17, IHB15, JK10,
KCB09, KMJ+17, KKW+14, KG19, LH17, ML19a, MSPDP19, MFC18, PDC16, PS19a, PS19b, VS02, YWLQ18, ZWL+15. Optimizer [KB17].

Optimizing
[BH09, BYN+17, BBK11, Cha03, CQWX14, CCG+08, GE06, HM12, HWZ+15, ITK09, KHL+17a, KR11, LKK+19, PSCK+15, RKS02, RC09, RSMFE+12, SK09, SRL+14, TK10, VS11, XY17, ZYX+12, BDZ19, CSC+17, DAL15, EDBS08, LF15, LXX+16, LHC+07, MSB17, TJK16, WTN07].

Optimization [BH09, BYN+17, BBK11, Cha03, CQWX14, CCG+08, GE06, HM12, HWZ+15, ITK09, KHL+17a, KR11, LXK+19, PSCK+15, RKS02, RC09, RSMFE+12, SK09, SRL+14, TK10, VS11, XY17, ZYX+12, BDZ19, CSC+17, DAL15, EDBS08, LF15, LXX+16, LHC+07, MSB17, TJK16, WTN07].

Optimum [SS17b].

Option [CCO15a, HLCW15, LL16a, TTPJ16, ZO14].

Options [DCJ12, PW12, TZKH12].

Opto [PWH18].

Opto-electric [PWH18].

Opus [SVB19].

Orchestration [JDB16, LM08, MK15a, PPC+15, RBNG15, SHP14].

Order [BBSW17, CCM+17, KHHC13, LW13, MSV+10, PCT04, WFKS18, ZCXH17, RC09].

Order-based [PCT04].

Ordering [KYBV17, RMCHMG15].

Organization [CCTW11, DDX06, MS19, PLY13, PRT09, ZBC10].

Organizational [XZZ16a].

Origin [LL01, LSK04, PIH04].

Origins [Arz17].

Orthogonal [LZW13, LCJ14, RRR04].

Orthologous [COdO11].

OSD [PGF19].

Other [KHW05, Sod05].

Out-degree [ZWY16].

Out-of-core [ABC+15, GdMK+18].

Out-of-the-box [XHCL15].

Outbreak [SMS19].

Outdated [HZL16].

Outlier [SL18].

Output [AAI12].

Outreach [AMRT14].

Outsourced [HKA19b, JRS+19a, KTZ+18, LJW+17, QZDJ16, WDL10, WBH08, WZSL13, WLY+18, YLJZ14, YB12, ZFT08, Zhe16].

Origin [LL01, LSK04, PIH04].

Origins [Arz17].

Outsourcing [LSC+19, LWL+19, SKB+17, SWW+16, WZL+17b].

Over-decomposition [TSL+19].

Overcome [SMH+19].

Overflow [LWW06].

Overhead [ALYD17, MA15, Tan12, YLLZ09].

Overheads [LldA08].

Overlapping [GBFP09].

Overlay [KAl16, LWF+15, RFR10, RH07, SAM+17, VvSI07].

Overlays [BDF15].

Overload [QCB17].

Oversubscription [DGW16].

Overview [DCG15, SWHL16].

Owned [HJH19].

Ownership [PNB04].

P [Ano06, ZDL19, Kac11, RGL+15, CWL03].

P-GRADE [Kac11].

P-hub [ZDL19].

P-Jigsaw [CWL03].

P2P [Ang08, BGdCCA11, BKH08, CLX07, CZ11, CT11b, CLW+15, Del08, JLHH14, KA16, RH07, XPBS11, XPS+15, XBZ10, ZEB10, dAAVS12].

P2P-based [XBZ10, ZEB10].

P2Pedia [DCEK15].

P2PGrid [CLX07].
P2PPerf [EDBS08]. P2PScheMe [dAAVS12]. PaaS [DPM17, PB16]. PAC [WLL14]. Pacific [IUCH+17, PC17b]. package [PSM+11, Sch04, WO14, Zhu19]. package/access [Sch04]. packed [BGGL07]. PackedObjects [YKA+19]. packet [BRG17, PadY+10]. packing [RGX+17]. pad [YWW+10]. PADP [YXL17]. PADTAD [Ur07]. PAGCM [RZL+19]. page [ID18, PZZ08, PZZ10, ZDD+17]. PageRank [LSXL17, PCD15]. pair [ANH16]. pairing [WWC+19]. pairing-free [WWC+19]. pairs [QZYZ16, SSB+14]. pairwise [AMHC11, SGR19, YAG19]. PAKA [XZJ11]. PALF [LYL07]. Palirria [VB16]. Palladio [BWEB14]. PALM [BPD06]. palmprint [SC19]. panels [WWY19]. Papers [AHP+13, BHD13, BKZ+13, BDB+13, CWZL13, CCCW13, dOCPFJ13, CLTT13, CKRO13, CAC+13, CMT13, CS13, DRZ13, DRZ+13, DLV13, DLM13, DH13, EBMD13, ETR+13, HMPPT13, HFTQ13, JJGL13, KM13, LXJR13, LMKT13, LDXC13, LW13, MLW+13, MS13, MPP+13, MGF+13, MJSV13, NSSAK13, ODS+13, PLY13, PRD+13, PB07b, PK08, Puf13, QLS13, RMP+13a, RHRB13, RTMZ13, SRF13, TBW13, WCW13, WAS07, WZZL13, WC08, WCLC13, XW13, Xu08, XJZ13, YLD13, YLR+13, YLJZ13, ZWL+13, ZLY+13, ZLN+13, ZHZ+13, GZX17, PDD14]. PAR-3D-BLAST [SL14]. paradigm [CKL19, CKBB14, FJ05, GED+18, KSK19, PRS01, TBH+18, WW19, ZBP06, ZF18, ZDC+09]. paradigms [CS13, GWC+11, LMS18, MLS+12, PRS01]. Parallel [AMHC11, AMTM17, Ano15a, AMZ19, AT18, BGGS14, BJ18, BQHOS15, Bok12, BYD02, BLKD08, CPEA18, CC13, CMIVRGI17, CMPT08, CACC11, CCW06, CST06, CSMK17, DCG11, DSO‘01, FSM‘19, FLMRC02, dFdOSR‘19, FCT‘02, GKS14, GA08, GSV03, GKK09, GJ17, GZK17, HLCW15, HM04, ISS+02, JN03, JKV+15, KRW17, Kn06, KLP‘08, KB12, LJSX17, LJPP16, LKPM09, LS05, LBH07, MMW16, MKB01, MSD+18, MQOQH01, MK19, SM+14, NO02, Nak02, OLG+15, PCVZ+04, PH04, PLA08, PPP10, PA08, QSMK04, RSM01, RTTPH12, SPM11, SKK02, SG16, STS19, Str11, SN16, SET+14, TTD+05, TFDA07, WZ04, WCH+07, WT15, YAG19, YA04, YT19, YWBS19, ZP07, ZLZ+17, ZZZ‘15, vAVS12, AAP13, AA16, ABF‘10, AML+15, ABF+17, ABC19, ABV05, AC09, Ano06, ADK+16, ATL17, ACIC+13, dRADFG17, BGGL07, BJo1]. parallel [BFR05, BCD+02, BG14, BCCG02, BB02, BB04, BCM‘07, BD06, BV11, BND16, BZB17, BCC‘05, BDV02, CML+10, CDA09, CT11a, DLL14, CLRC16, CORK18, CV04, CZL+17, Cho01, CGS15, CNP+15, CZL12, CSMK19, CLR15, CCT15, CRV15, DDP+06, DCJ12, DV14, DLX+16, DPL03, DS04, DdB01, DCK12, DLM13, DDF+15, DVL+17a, DLT19, DVNM+11a, DT01, EMGY14, EMFM17, EOD+19, ESG11, FBH+01, FJ05, Fec12, FL16, FMS15, FBV+13, FYKW15, GWW17, GL19, GMT07, GG09, GM17, GQ04, GDAM‘12, GM04, GE08, GvDHS12, GCW+11, GPZ04, HKW16, HM+09, HVPFP14, HzV13, HSHT14, HLO+16, HW16, ITK09, ID18, ISO+14, IPGCM18, IT03, JC07, JML+16, JLA07, KG17,
parallel [LDZ14b, LL15, LGQ+17, LWL17, LTZ+19, LG08, LF17, LCW+17, LLH+17, LHX+18, LSP15, LB11, LL19c, MRL16, MST+05, ML19a, MJL01, RSC03, MMSG17, MCS18, MT19a, MCG18, MO02a, MGS19, MKK04, MM17, MCCD18, MPSGD14, MJD15, MCSML07, MCC16, MFG19, MLYL17, MLWA19, MAK18, MVWL+10, MDL+10, NSBR07, NMM+10, NC05, NV09, NNON02, NDT+16, ODS+13, PW12, PSPG03, PMPH15, PS10, PV04, PRC+14, PSM+11, PPST09, PGF19, PSS+18, PT12, PAC+17, PSCRI+15, PZ17, QW17, QH10, RR15, Ree01, RZL+19, RR11, RGL+15, RLVRG14, SL14, dFMSPSW06, SV09, SAB15, SJW18, SHT+17, SRI13a, SRI13b, SER15, SK04, SMM18, SIS19, SCBH09, SsCY17, SM03, SL18, SBPD15, STTW18, SIM+07, SGD+18, SLS+08, SLM05, SK18, SNG18, SS15c, TYL+15, TLY+17, TCSBMG17, TY15, TKS18, TCH+13]. parallel [TSKM18, TF03, TBH+18, VCP16, WKB+19, WLLL15, WDG+14, WCR+14, WBO16, WWLD18, WZLL18, WLF19, WHX19, WLW14, WMDM07, WLL03a, WS17, WS19b, XPBS11, XCHY13, XXL17, XLY17, YYCH10, YWC11, YGG14, YXL17, YCYC+19, Yos06, YL01, YB12, ZF14, ZY06, ZP06, ZSS+14, ZYW+16, ZZC+17, ZGZ19, ZLYT06, ZL17, ZWL+17, Zhu18, dCGK16, dOOO+12, vHvdSvL03, vMGB18, CM07b, JY10, JT9c, PN10, SMBT07, SPB17, TL14, Ur07]. parallel-in-time [MCCD18]. parallel/distributed [MCSML07]. parallelisation [RVVPD+17]. Parallelism [BPL12, VRSJ15, ABFL17, DS04, FJ05, GVC10, HJB12, MB14, NSN+17, Nexp17, OGA+01, VB16, GDD+04, MMS07, PGD18]. Parallelism-based [VRSJ15]. Parallelization [GB07, HKB07, Rick04, SS15a, SSK11, TRH+02, ZZL+17a, ZL17b, AUHJ19, CEM+17, DT15b, FSG19, HC07, JSR9b, LF17, MUKY18, PN10, PSM14, SMBT07, TRW07]. parallelize [SVJR15, SPW09]. Parallelized [GPV09, MAAK04]. Parallelizing [BHL+09, BHPS14, CCP+15, DKO9, KSS+17, LXW+16, LJZ+18, LLRS19, BY12, Dut17, YTF+01]. ParaMEDIC [BFL+10]. parameter [AAE+09, GG15, HML20, ISO+14, KHL+17a, LLH19, RMCN+07, SL18, TSL+19, WZY19, YGG14, YK10, Zhu18]. Parameterizable [ZCL14]. parameterized [CHM15, SS07]. parameters [BAG17, JCVU15, KCD19, OORB14, WLL17, YC19b, WZH+18, ZDJH18]. Parametric [eEGW06, IA11, KS04]. parasite [LLRS03]. Pareto [KB17, MHL+05, Mz05, RLVRGA14, TZK16]. Pareto-based [KB17, MHL+05]. parity [LDZ+15, PK17]. parity-check [LDZ+15]. Park [Mar19], parsimony [SJVR17]. Partial [ASP19, ZWH+16, BJ01, DFL14, KKW+14, LWZ11, MCG+08, PS10, SGR19]. Partially [XLL+15]. participatory [BvIF10, CGOG15]. Particle [KHL17b, AA16, BDY02, BDY03, dCPD13, CPD17, EN19, HR18, IWQ19, MLV05, PWH18, QH10, RKL15, VDL+15, WZY19, XDE+04, ZHT08, ZT09, ZS17]. particle-in-cell [MLV05, QH10, VDL+15]. particulate [MZG19]. partition
KMBR19, KAL07, KS02, KC06, KYBV17, KSB19, KSM19, LBOE18, LLRS03, LSS05, LHL10, LGP19, Li04, LWG15, LL16b, LJML10, LKYS04, MST19, Mar05, MDH16, MLY10, MJ19, MWW10, MN10, MNL15, MWLS11, Ne05, NJ05, OCC15, OAS15, PFU05, PGB03, PHGK10, PW05, QB12, RGAK15, RK01, RMCN07, RVVPD17, SG19, SZT18, SFCAV16, SIOS02, SWB12, SFR19, SGR19, TSL19, TWR07, TMR07, WKT08, WXL19, YWC11, YOBS16, ZPG10, AA07, ABF10.

Performance [ABDP15, AP10, ABMdAMF19, AAC15, ADI14, AC08, AKM06, BLCC19, BCD10, BJH16, BB12, BFM10, BM08, BBM19, BS10, BDD10, BGD10, BPT16, BWEB14, BXQ17, BDH15, BPD06, CMW02, CC13, CHP17, CPG16, dOCPFJ13, CKOG10, Cha03, CLYC16, CNKJ18, CBPP02, CNG13, CXPL15, CLS14, CL16, CEG05, CFP03, CKD19, CRGR12, CMS17, DD17, DLPV07, Dam11, DIM18, DRZ13, DC19a, DDX06, DS02, DMR07, DVS16, DL10, DMD16, DFL14, DZM15, DLT16, Dmma17, DPP19, EGG14, EMS11, ESG17, EMS15, ETR13, FBH01, FE17, FLYL16, FMP10, Fox12, GFB10, GW15, Ger05, GF07, GMT07, GO10, GKS14, GAV14, GBMM15, GCN09, GA08, GWVP14, GTA10, GW15, GYP16, GVP14, HM12, HDD09, HTW16, HMM09, HSV19, HPS05, HT10, HvN15, HLC12, HLC10, ID18, JC17, JWY05, KF15, KDC17, KA09, Kar14a, KHZ06, KHW05, KL12a, KCBO9, KSM08a, KTR11, KW01, KF11, KAM19, LLL19, LM09, LM07, LSH16, Li18, LHL19, LLY19a, LSS15, LHBW15, LHL15, LHB19, LFH08a, LQ109, LAL02, LKX19, LL01, LKJ03, LSK04, MSMA19, MBP16, MAF05, MMMP01, ML19a, MLB05, MMSG17, MBC14, MSPDP19, MSB17, MJID17, MO14, MO22b, MDV07, MA15, MMG18, MFC18, MKS16, MB02, MM10, NMM10, Not16b, OFR17, PSR14, PLM19, SSB19, PBB14, PLL17, PSS18, PK17, PB15, PS19a, QXZ16, QWZ19, RVRD10, RRdCRR16, RCB03, RMW19, RGL15, RCLSK16, RM03, RGB15, SM02, dMSMP06, SAB15, SFR13, SER15, SCC10, SLGL16, SCBH09, IS0CY17, SCG19, SZG19, SSK11, SWD15, SM09, SIM07, SS14, SFR13, SFT15, SPQ17, SB17, SRL14, STL15, SK18.

Performance [SLM10, SWD17, SS07, TTD11, TKZ17, TYHL12, TCSBM17, TPT18, TTPJ16, TRW07, TSS18, TF03, UA18, VS02, VJK13, VDL15, VSD10, WBJ17, WHX19, WK07, WTN07, WCL15, WTL15, XWD12, XJA18, XZZ16a, YYS15, YBC07, ZF14, ZCC06, ZCL14, ZZ16, ZL12, ZLZ19, ZZD17, ZL15, ZDX12]. Performance-aware [KL12a, LFH08a]. Performance-based [LHL10, NJ05, YWC11].

[BTG06, LCM12, LDZ14b, MMS07, OTG+07, TLM17, WCR+14, YZZ+10].
point-set [WCR+14]. points [LCJ14, QML+17, Soo16, TLX+17].
points-based [Soo16]. PoLAPACK [Cho01]. Polder [IBVA+02]. policies
[BBC16, KQR+17, KKV13, NnvD+09, OSK+01]. policy [BA18, BBC16,
CV15, GLS+19, HDX+17, LFWS15, RAFD14, WZC16, YL01].
policy-based [CV15]. polling [KSK19]. pollution [BGdCCA11]. polygon
[YIN19]. polygonal [ZKKW17]. polygons [CZL+17]. polyhedral
[CSC+17]. polyimide [ZCW+18]. polymorphism [KS04]. polynomial
[CH04, YLWZ18]. PON [KJ19b]. Pool [HR06, VCP16]. pools
[KR04, TK10]. POP [JWY+05]. popular [PBF15, PNP19]. population
[XBS13]. porous [GBA17, LLY+19a]. port [cDrLyC+19]. Portability
[JPS17, ABPD15, CGK+16, FE17, FE18, GFRB10, JWY+05, MMSG17].
portable [BMV03, DPP03, DLZ16, DT01, LHC+07, LTK17, RMG+10].
Portai [GBB+15, Nov02, SPR+07, AHB+10, ACC+07, BAD+11,
BFM+06, CW07, HCD+06, Kac11, KBH+15b, MCY+10, NRW04,
PYF02, PGP+10, YWA07, YBB+07, YLEB14, ZDA+07, ZKA07, vLDA07,
ACMA07, CM07a, HBBH02, NNTH+02]. Portai-based [SPR+07]. Portals
[EMB11, GvHKK11, Tho07, BKM+07a, BKM+07b, MHO7, NAP+07,
TDM+02, YAA07]. portals/portlets [YAA07]. Portfolio [MB17].
portfolios [BRCV16, WSRM12]. porting [DHH+13, KOK14, WVG+11].
portlet [WYAB07]. portlets [ACF+07, YAA07]. pose [RK15]. Position
[SWS+18, MB19, XZZ+16a]. position-based [MBB19]. positioning
[LIWZ+19, MB17, YYL19]. positive [HSL+16, LZWD+15]. possession
[YXL+17, ZNT+16]. possibilistic [MZA19]. possibilities [HGT14]. Possible
[SCN+07, PFU+05]. post [LT+17]. postquantum [YZCT17]. posts
[LHB+19]. postseismic [ZGRSC10]. potential
[BHA15a, RMCN+07, YZ10, ZYZ+19, ZGL07]. potentially [CSL+18].
Power [EQORS19, KBB11, LBdM+16, LWS19, MSP+13, PSL+16, TQL+14,
TPT+18, TDM+19, ADMQO14, AMSR14, CLH19, ČSMK17, CSMK19,
CSAC19, DMW+10, DGR+07, DMMA17, GKG+04, GYP+16, HKVW16,
HTHW16, HJF+19, MWRK18, MFG+13, MKO+17b, NK19, PLM+19, PL17,
PS19a, RHZ+17, SLGL16, ŠZH17, SB18, SPQ+17, WRLS12, XL17, ZMYA18].
Power-aware [EQORS19, KBB11, LBdM+16, MSP+13, TDM+19, RHZ+17].
power-saving [MFG+13]. powered [ADSV16, SR19b]. powermode [JL10].
PPAM [WT15]. PPEM [LLM19]. PPLTCAM [WHX19]. Practical
[EA12, FLYL16, JWY+05, LSC+19, XV13, CSB+16, HWZX08, LFZ+17,
ZYFZ19]. Practice [Ano06, DN19, FH01, KQR+17, TH10, ASP19, BCCM16,
CHPvdG07, Fox12, GTL06, Hun15, JCK+13, LWC17, RKS02, RLC16,
TTL05, TDM+02, YDB+13, ZRB19]. practices [GRGP12, LME+19].
practitioners [HMPP13]. PRAGMA [PC17b, Arz17, IU+17, SWP17].
PRAGMA-ENT [IU+17]. praise [ECP18]. Pre
[AdCpSD17, PWJ10, YW+17a, BJD+19, SGCG09, WLP+17, YHS16].
pre-distribution [BJD+19, SGCG09, YHS16]. Pre-image [YW+17a].
Pre-seismic [PWJ10]. Pre-stack [AdCpSD17]. pre-transformation
PCsHL18, SYMA17, TZ16, YWR+19, YLWZ18, ZXRZ19, TKS18].


procedure [KKK10]. procedures [NFG19]. Proceedings [Run10]. Process [BR10, ABMMR19, CWZL13, CMB06, CMD11, GWHLJ19, HAN19, HRR+11, HY12, ITK09, KSPM12, MBB19, May10, MfM19, ON01, ON02, RR19, RW10, SB17, TPV17, WFT17, WDL+17, XLZD13, ZLH+18, ZLQ+18].

Process-oriented [BR10, RW10]. processes [FABE11, HLZD18, IAЕ11, IАЕ11, Jos05, SG07, TALT16, XZH09]. Processing [LSXL17, SMBT07, WT15, ATVL14, ACC+12, ADF+13, dRADFG17, BG17, BDW14, BHQS15, CLNR18, CY15, CRB09, CGP16, CP14, CPS17, CTAB16, CS13, DDP+06, DCJ12, DCJ14, DG11, DZL+15, DZL+17a, DGW19, DL07, DT15b, EMS11, EPA15, GWHLJ19, GGV14, GLZ19, HWL18, HH19, JQL+15, JZMD19, JdW12, JZZL06, Kar14a, KCl13, KKL06, KLP+08, LOE18, LPS+09, LTL+17, LPH09, LOSJ17, LKM09, LDZ+15, LGL+17, LLH+15, LWLZ11, LSJ16, LMDP19, LGP+14, MAS16, MS17a, MS18, MBMB18, MCB14, MK12, MPSGD14, MWL+15, MXP15, MMG+18, OLG+15, PSRR14, PPT19, Pia08, PSCK+15, RPM+13a, RP19, RLZ15, RS11, RAC+11, RHD+16, RCR+15, RK15, SNH15, SPMP11, SPZ+10, SAD13, SK04, lSsCY17, SL18, SCS17b, Str11, SEF+14, TVCB19, TKZH12, VDL+15, VCW13, WJT+14, WCX16, WJYH16, WCLC13, XPBS11, XCHK14, XLHT17, Xu19, XZT+11]. processing [Yos06, ZLL11, ZWL+13, ZD14, ZHGX16, ZWL+19, ZDG+14, dRC10].

processor [ABDP15, AFGL09, CLRB15, GSG06, KD07, LHC14, LL01, MBGC16, MCP+12, NS19, Pu13, RRR04, RMW19, YL01]. Processors [AS19, SSV19, ZHYH19, AAC+15, ADMQO14, BHM+12, BBdS+17, BHKW12, CPEA18, CGST17, CLF19, CSWB11, DLZ16, DLK+18, GCPS+14, HFR+17, JLT06, KBE07, KKW+14, KL12b, KLDB10, LGLA15, LYL07, LLYL09, MSPDP19, RVD+12, RR19, SR19a, SNK+15, SW09, SPQ+17, TYTY15, TKS18, WJ09, ZHYH12, ZZZ+17a].

product [ER12, HFR+17, PLL+14, SZT19, VFG11]. Production [BPS19, GED+18, NTK08, PSL+16, RLS+09]. productive [GBFP09]. Productivity [MLS+12, YBC+07, KSM+19, LLY19c, TFG+12]. products
[CHX+19, HAJL16, Yan19a]. profile
[KWK05, MSG10, OZI19, SL10, SKNH09]. profile-based [MSG10]. Profiles
[MG09b]. Profiling [CSPM13, BM07, BAVM11, TYTY15]. profit
[DPM17, LFPP17, Yan19a, ZS17]. Program
[JWY+05, BPdM06, CLZ+17, CRV15, HM04, KL02, KB18, OKW18, SLM04, SLM05, TNIB17, TRH+02, TBK+15, YYS15, ZJL15]. program-to-program
[BPdM06]. programmability [DP14]. programmable
[CSWB11, FRKS12, NNH+14]. programme [TWB13]. programmed
[CZG16]. programmes [ADK+17]. Programming
[BH16, BL17, CLTT13, CGH+06, MCP+12, PA08, RWK+02, SRdS09, SF10, UR04, VFAD17, ALVY05, BB02, BAVM11, CAD+18, CLYC16, CNP+15, CLRB15, DK09, DWC+15, EK19, EBGS01, EB05, FJ05, FMS11, GL19, GA08, GvDHS12, HDX+17, HvNJ15, HR06, JDH+18, JZZL06, JLCA07, KOB01, KIM+03, Kes04, KHL+17a, KS05, LL05, LCFkL05, LWB13, MLS+12, MH16, MKIO04, MTT15, MMSG17, MGS19, MSB17, MRH14, NO02, PRG15, PBF15, Pre01, RRR04, RGV09, SK04, SPBL06, TFG+12, TMAG03, TBH+18, WO14, YIN19, YWC11, YB12, ZDB+14, ZWT+18, ZDC+09, vNMW+05]. programs [ABF+10, ADK+16, ABS16, AUHWJ19, BHA15a, BB04, BV11, BK05, BL04, CL10, DAL15, Dut17, EFG+03, EL01, EHSU07, FSPC+02, FSG19, FLB+05, GRS06, GM04, HL13, ITK09, KO06, LL16c, LCC+03, MTVF14, NA15, PAdH+17, PAC+17, PS07, RR15, RS07, SVS+08, SSZ14, TLM17, TF03, VJHB05]. Progress
[FS07, BKM+07a, BKM+07b, KKM+06]. project
[SZXG19, YL16, ZLH+15]. proofs [WLZ+18]. propagation
[ACCM17, AMZ19, CWXW16, GdMK+18, KB13, OFR+17, SR19c, TIWZ14]. properties
[ANH16, ABDO09, CEMR19, CSL12, HTHW16, IÅE11, KM13, LLY+19a, MPH03, ZQK15]. property [ALYD17]. proportional [ZLF19]. proposal
[FMS11]. proposed [CG01]. Prospects [PCB+18]. protect
[BGdCCA11, ZBP07]. Protecting
[LWY15, WYBS16, YKD+15, ATKH+17, CLF+19, SW11]. protection
[ALZR11, CZZ10, LWYM16, LSZ19, LL19a, LLYL16, RR01, ZXC+19]. protein
[BPL12, BDTdS13, MP04, NCWD+04, SL14, SRL+14, TCP+05, TTD+05, YA04, ZCL+18, SHH+14]. proteins [FMS15]. proteomics
[CV07, KBH+15b]. Protocoal
[BNNH19, AKGL13, AD15, BKA19, BF07, BDB+13, DXWC16, DK19a, EN16, EA12, FIO15, GMX13, GBJ19, HLC19, IHB15, KABD07, KG19, MTM19, MABP13, MRMC15, MMS+01, NLYZ12, SQS+19, SWW+16, TZ16, TAI+11, WM17, XBS13, XJZ13, YZW+15, YLWZ18, YYY+19, YWM+10, YL16, ZZZ15, Zhe16, ZBZH11, BOB13, DT15b]. protocols
[ALYD17, Aia15, BDB+14, BHBD13, DVB14, DT15b, GD06, JLLH14, LWB13, NJ15, PGB03, SS15b, SC07b, XJZ11]. prototype
[FGC06, JLHH14, ULS03]. prototyping [GBMM15]. protozoan
[Cod0+11]. Provably [ZNT+16]. Proving
[LDZ+14a, FIO15, KTZ+18, SZXG19, XWX14]. Provenance
[AA19, BML08, KDG+08, MWH16, MLA+08, OBD+18, BA18, BA19, BD08,
CFV+08, CBBCD08, FMS08, FM08, GH08, HSBMR08, LPA+08, MMW+12,
MGM+08, RNAD19, SGSC08, SPG08, TC12, ZGST08, KSM+08b, SKS+08].
provide [BHA+15b, JMF09]. provider [TPV17]. providers
[ANK+17, EdPG+10, NB12]. Providing [GvHKK11, GMPT15, HSM14,
PSM03, YESG+17a, BHA+15b, JKV+15, SGD15, YESG+17b]. provision
[WSL15]. provisioning
[EBMD13, HHKA14, KBB11, LDPZ14, SJB14, SD11a, SKJ17, ZFJ16].
ProvManager [MMW+12]. proxy
[CLH+16, LFWS15, LHBW15, SKB+17, XWX14, YZCT17]. pruned
[DFdOSR+19, LCW+17]. pruning [GKS+07]. PSEFC [KT19c]. pseudo
[RTPPH12]. pseudo-random [RTPPH12]. pseudonym [BB19].
pseudorandom [PPMH15]. pseudospectral [DGJ11]. PSkel [PRG15].
PSLS [KM03]. PSO [EB18, KHL+17a, ZCH+18]. PSO-based [EB18].
psychology [CZJY19]. PT [MGS19]. Pull [PLZ14].
public-resource [LMOT10]. public-safety [ZHM+17]. Publication
[HLB10]. publications [GWD15, PB19a, WDGSK15, WD14]. publish
[BBPV05, MWPL15, MWPSX17, TKK+11]. publish/subscribe
[BBPV05, MWPL15, MWPSX17, TKK+11]. publishing
[HCG07, LXW17, WYAB07]. PUEA [EZJ+18]. pull [DT17]. pump
[GLHS19]. Purchase [ZY16, DJ19, HH19]. Pure
[GVK12, ASP19, VDPO3]. pure-Java [VDPO3]. purpose
[ABDP15, AdScdR+19, ETR+13, LKPM09, PSSR14, RM+13a, SNK+15,
SW12, TYX+16]. purpose-based [SW12]. push [DT17]. puzzle
Python [Jac02, Wo14].

Q [SR19a]. Q-HypE [SR19a]. QC [GAB19]. Qespera [MV16]. QNX
[KF01]. QoC [DD17]. QoC-based [DD17]. QoE [DD17]. QoS
[BPB08, CL07, CLX+12, DMRS15, DXM+17, GYM14, GMPT15,
HAAWA+16, LLX+15a, LDXC13, PRD+13, QLD+11, RC09, RCKV12,
SAMS19, TALC15, TJK+11, WRLS12, WSW+12, XWFH08, XZH09,
YBO10, YLR+13, YSC+17, YCW07, ZS17]. QoS-aware
[YZC07, BBO8, GYM14, LDXC13, QLD+11, WSW+12, YSC+17].
QoS-based [CL07, CLX+12]. QoS-demanded [ZS17]. QR [BLKD08].
QSQL [RCX09]. quadrature [GBS+12]. Quakesim [PGP+10].
qualitative [LLRS03]. qualities [ZQMC19]. Quality
[MCCG11, TALT16, AAHRW04, CLF+17, CM02, CRGR+12, GCSB19,
HLY18, HA113, KTM+09, LDPZ14, LGJ17, LL19b, OORVB14, PSM03,
PME+08, RBO+02, STO17, WSZ+18, YJL12, ZL19. quality-of-service [CRGR+12, KTM+09]. quality-of-service-based [RBO+02].
quasi-immutable [NN07]. quasi-static [LOKW+10]. quasicyclic [LDZ+15]. quasigroup [KPNS18]. quaternions [CH04]. queries [BLA+14, DDM16, GBD16, LOSJ17, LFZ07, LC17, TSKM18, YWBS19, ZY+12].
Query [CLW+18, SPG08, ANH+19, CZY+18, DDP+06, FBYO12, JQL+15, KLP+08, LTL+17, LRY15, LW13, MJZ17, MRS03, PN19, PLJ18, TMLP16, WGY+19, XLYX11b, XZZ+11, ZLLL11, ZYL+19, RCXS09]. querying [GR13]. question [GZWH07, HHWZ08]. questions [GR13]. queue [ESGQ+11, GQR19b, MV16, PTL+16]. queueing [MLVW12]. queue [WKL14]. Queuing [ZD13, YHH13]. Quick [RCXS09]. quicksort [MOMO+16, MMO+16]. quiescence [MCG+08].
race [PS07]. races [DDF+17]. RADAR [GCSB19]. radial [SP+10].
radiation [CSB+16, ZWW14]. radio [AD15, DK19a, EA12, FXX16, FO18, JKZ03, KJ19b, LCMY13, NLYZ12, SHST13, TZZY13, XBSX13, YCY+13, YZ+15, YLYC19, LSY+12].
radio-frequency [AD15, YZW+15]. radio-over-fiber [KJ19b].
Randomforest [LWP19]. Randomized [AKMU13, ABDO09]. range [GDB16, LOSJ17, XZT+11, ZLLL11]. rank [BDE+19, FSM+19, ML18, PA18, YAG19]. Ranked [PPdSTB17, BV16].
ranking [Del08, WFS+19, PpDSTB17]. Ransomware [LX18]. Rapid [HLA+18, KD19, WSMR15, LLT19b, NTK08, WWG+11, KT19c].
RAPL [KD19]. rare [KHL17b]. RARM [KTI19c]. Raspberry [DCA17].
Rayleigh [MS10]. RBAC [PZH18]. RBF [SPZ+10, YWQLQ18, ZZ19]. RCS [WWLD18]. rCUDA [RSC+15, SRP17]. RDF [GKP+09, LZZ+17, UMD+13]. RDMA [ETR+15]. RDMA-enabled
Repairing \([\text{PWMX16}, \text{AS17}, \text{XGC19}]\). Reparallelization \([\text{KBG}^{+}09]\).

\textbf{RePast} [MT08]. repeated \([\text{LOSJ17}]\). replacement

\([\text{BBC16}, \text{DLT}^{+}16, \text{SS17b}]\). replica

\([\text{PSC}^{+}17, \text{VSK17}, \text{WSW}^{+}12, \text{YYC10}, \text{ZFXJ19}]\). replications \([\text{BF07}]\). replicated

\([\text{AaBT17}, \text{MBK01}, \text{TMS}^{+}12, \text{YCSY19}, \text{ZH08}]\). Replicating \([\text{Kal11}]\).

replication \([\text{ASS08}, \text{BPdM06}, \text{CLNR18}, \text{DFLNP07}, \text{EN19}, \text{ESZ09}, \text{GMS09}, \text{GO18}, \text{MY17}, \text{NCD}^{+}08, \text{RBT18}, \text{SMFM18}, \text{XPS}^{+}15, \text{ZNT}^{+}16]\). reply

\([\text{OKW15}, \text{OK15}]\). Report \([\text{MKO}^{+}17a, \text{WWG}^{+}11]\). Reporting \([\text{LRS15}]\).

repositories \([\text{BH09}]\). repository \([\text{BM10}, \text{BPL}^{+}19, \text{FHO}^{+}15, \text{GKP}^{+}19]\).

representation \([\text{CXT}^{+}18, \text{mLG03}, \text{LFH}^{+}08b, \text{SLC}^{+}18, \text{SLC}^{+}19, \text{XYSW18}]\).

replications \([\text{BF07}]\). replicated \([\text{AaBT17}, \text{MKB01}, \text{TMS}^{+}12, \text{YCSY19}, \text{ZH08}]\). Replicating \([\text{Kal11}]\).

replication \([\text{ASS08}, \text{BPdM06}, \text{CLNR18}, \text{DFLNP07}, \text{EN19}, \text{ESZ09}, \text{GMS09}, \text{GO18}, \text{MY17}, \text{NCD}^{+}08, \text{RBT18}, \text{SMFM18}, \text{XPS}^{+}15, \text{ZNT}^{+}16]\). reply

\([\text{OKW15}, \text{OK15}]\). Report \([\text{MKO}^{+}17a, \text{WWG}^{+}11]\). Reporting \([\text{LRS15}]\).

repositories \([\text{BH09}]\). repository \([\text{BM10}, \text{BPL}^{+}19, \text{FHO}^{+}15, \text{GKP}^{+}19]\).

representation \([\text{CXT}^{+}18, \text{mLG03}, \text{LFH}^{+}08b, \text{SLC}^{+}18, \text{SLC}^{+}19, \text{XYSW18}]\).

replications \([\text{BF07}]\). replicated \([\text{AaBT17}, \text{MKB01}, \text{TMS}^{+}12, \text{YCSY19}, \text{ZH08}]\). Replicating \([\text{Kal11}]\).

replication \([\text{ASS08}, \text{BPdM06}, \text{CLNR18}, \text{DFLNP07}, \text{EN19}, \text{ESZ09}, \text{GMS09}, \text{GO18}, \text{MY17}, \text{NCD}^{+}08, \text{RBT18}, \text{SMFM18}, \text{XPS}^{+}15, \text{ZNT}^{+}16]\). reply

\([\text{OKW15}, \text{OK15}]\). Report \([\text{MKO}^{+}17a, \text{WWG}^{+}11]\). Reporting \([\text{LRS15}]\).

repositories \([\text{BH09}]\). repository \([\text{BM10}, \text{BPL}^{+}19, \text{FHO}^{+}15, \text{GKP}^{+}19]\).

representation \([\text{CXT}^{+}18, \text{mLG03}, \text{LFH}^{+}08b, \text{SLC}^{+}18, \text{SLC}^{+}19, \text{XYSW18}]\).

replications \([\text{BF07}]\). replicated \([\text{AaBT17}, \text{MKB01}, \text{TMS}^{+}12, \text{YCSY19}, \text{ZH08}]\). Replicating \([\text{Kal11}]\).

replication \([\text{ASS08}, \text{BPdM06}, \text{CLNR18}, \text{DFLNP07}, \text{EN19}, \text{ESZ09}, \text{GMS09}, \text{GO18}, \text{MY17}, \text{NCD}^{+}08, \text{RBT18}, \text{SMFM18}, \text{XPS}^{+}15, \text{ZNT}^{+}16]\). reply

\([\text{OKW15}, \text{OK15}]\). Report \([\text{MKO}^{+}17a, \text{WWG}^{+}11]\). Reporting \([\text{LRS15}]\).

repositories \([\text{BH09}]\). repository \([\text{BM10}, \text{BPL}^{+}19, \text{FHO}^{+}15, \text{GKP}^{+}19]\).

representation \([\text{CXT}^{+}18, \text{mLG03}, \text{LFH}^{+}08b, \text{SLC}^{+}18, \text{SLC}^{+}19, \text{XYSW18}]\).

replications \([\text{BF07}]\). replicated \([\text{AaBT17}, \text{MKB01}, \text{TMS}^{+}12, \text{YCSY19}, \text{ZH08}]\). Replicating \([\text{Kal11}]\).

replication \([\text{ASS08}, \text{BPdM06}, \text{CLNR18}, \text{DFLNP07}, \text{EN19}, \text{ESZ09}, \text{GMS09}, \text{GO18}, \text{MY17}, \text{NCD}^{+}08, \text{RBT18}, \text{SMFM18}, \text{XPS}^{+}15, \text{ZNT}^{+}16]\). reply

\([\text{OKW15}, \text{OK15}]\). Report \([\text{MKO}^{+}17a, \text{WWG}^{+}11]\). Reporting \([\text{LRS15}]\).

repositories \([\text{BH09}]\). repository \([\text{BM10}, \text{BPL}^{+}19, \text{FHO}^{+}15, \text{GKP}^{+}19]\).

representation \([\text{CXT}^{+}18, \text{mLG03}, \text{LFH}^{+}08b, \text{SLC}^{+}18, \text{SLC}^{+}19, \text{XYSW18}]\).

replications \([\text{BF07}]\). replicated \([\text{AaBT17}, \text{MKB01}, \text{TMS}^{+}12, \text{YCSY19}, \text{ZH08}]\). Replicating \([\text{Kal11}]\).

replica \([\text{KBG}^{+}09]\). replication \([\text{MT08}]\). repetition \([\text{LOSJ17}]\). replacement
resource-aware [GAW09, SGV12]. resource-constrained [ZLA†15].
resource-constraint [SMH†19]. resource-efficient [LLL15].
Resources [WD07, BDi†07, BFVRC15, CR12, CLH†08, FHO†15, GGFPGB14, GD06,
GKP†09, HKG08, Jun16, KBT†14, KFS†06, LBV16, MBMB18, NCWD†04,
OBD†18, PBK19, SWU08, SWD†15, SO16, VAC†07, Wit10, XCL09,
ZMZD11, ZBP07, ZDL07].
response [KMRT18, IWW06, MSST15, YZ10, ZYL10, Zhu19].
RESTful [ET15, CS15].
restricted [CLH†16]. restriction [TXZ†17]. restructuring [CLL†18].
results [BG04, BCM†05, CML†10, GRS06, LLRS03, MKO†17a, SLM†10,
VDL†15, YXLZ16]. retable [PBSB04]. retinal [LBV16].
retractable [FPHZ19, FPHZ20, HML20, Pan20, ZLW†19]. Retraction [Ano12].
retransmission [KCS07]. retrieval [CHH18, CMT13, DXWC16, DNB19,
HKA19a, LS15, MLRR09, PLJ18, PPP10, PPR19, SIST18, TSBR10, UAW09,
WXL19, XCL09, Zha19, TKS18]. returns [DFC12].
reuse [CXW17, LVN†12, PHCR09, RSN†19, WGG†07, YXLZ16].
revealed [BDY03]. revenue [MRS†10]. reverse [ACC†12, ATI14, RGCC15, TQL†14, RC09].
reversible [SS19a, SM19a]. review [ABS16, FVRM15, GRQ19b, IHA†15, LGdVH13, MG09a, SN18, ZHC†18].
revisited [BCK†09]. Revisiting [DVB14]. Revocable [MML16, FLL†14, WLFX17].
rewriting [GGC19]. rewriting-based [GGC19]. RF [BT04, SM19c].
RF-MVTC [BT04]. RFID [FLL†14, SZXG19, YL16]. Riccati
[BDE†19, MQOQOH01, PIAH12]. rice [SZD19, MCAB†02]. rich [LPW15].
RICS [TJD†17]. RICS-DFA [TJD†17]. right [LLH†17]. right-hand
[LLH†17]. Rights [HCBRM16, GLL16]. rigorous [RTPPH12]. Rim
[PC17b, IUCH†17]. RIN [BB19]. ring [ZWW14, ZZZ†15]. RIoTBench
[SCS17b]. RIP [KKK10]. RIPPER [XDP18]. rise [YC19b]. Risk
[FRU12, SR19c, BT04, CLL14, DPGA11, WSRM12, DCK12]. risk-aware
[DPGA11]. risk-free [BT04]. Ritrovato [Ano06]. RNA [BBW19]. RMI
[SS19c, WCCL05]. RNA [KHM†11b, LS05]. RNN [JQL†15]. road
[KHHC13, RNJM17, SWLJ17, XZT†11]. Roadrunner [WJLD09, GKS09].
roadside [YZ†15]. roadway [LMGZ19]. robin [GDJ16, LJML10]. robot
[BAD†11, DCCZ18, SHT†17, ZZ18]. robotic [JAU19, ZJS11]. robotics
[BCL†18, CRGR†12]. robots [SJ19]. Robust [AG17a, CHM15, CG17,
KBH15a, LPY†08, SB17, CCC06, ECP18, HZC†14, LXP†12, MSK19,
NTK08, Sha15, SIV12, WRC09, XLL†12, Yan19b, vdKEL10]. robustness
[BCL†CT06, LNKZ08]. rock [CNAQ18, LLY†19b]. Rocks [PKB03]. rod
[YZ19]. rogue [AYS14]. Role
[KM13, LLG†15, DCFC08, HTR10, HPS05, MLL†11, Mal05, SAC04].
role-based [MLL†11, SAC04]. role-driven [DCFC08]. roles [PZHS18].
rollback [ALYD17, ASP19, MG09a, YXLZ09]. rollback-dependency
[ALYD17]. rollback-recovery [MG09a]. Roofline [KAMB19].
roofline-based [KAMB19]. ROP [TJZ†19]. rotating [DdB01, MO02a].

DLM13, FBV+17, GWHJL19, HRR+11, Kar14b, KHM+11b, KMJ14, KSB+19, KSC12, LXRJ13, MWPL15, MTT15, MCG18, MWW10, NMM+10, PSG03, PSLC11, QLL10, RTET15, RZL+19, SRF13, SGCG09, SD15, SS07, TMB16, TAI+11, WYZ12, WLFX17, YLH+19, ZLN+13, ZIC15, ZGS17, dMd+17, QH10]. **scalar** [CSTV06, FNBS16, HFR+17]. **Scalarm** [BRK+17]. **Scalasca** [GWW+10]. **Scale**

KSM+19, PDD14, RIP18, AHP+13, AML+15, BH09, BFL+10, BCM+07, BBB+14, CLL+18, CHM15, CBQ+11, CGN15, CWM18, CPS+14, CDH+15, DVI+12, DLX+16, DP19, DZJ+15, DZZ+15, EN16, EBGS01, ERZ+11, EJD17, FAPC16, HFDJ10, HTR10, HWQ+16, HLF+17, HNL18, HSH14, JAA08, JCK+13, JKY+17, JPMH02, KBT+14, KCH+15, LBG16, LXRJ13, LXW+16, MZJ+19, MVW+17, MSCP18, MCE+10, MB14, MJ15, MJ17, Mos19, Not16a, PTL16, PAM15, QZYZ16, QLS13, RLRG15, SNH15, SK09, SLV12, SSB09, SCBH09, TJ17b, TJ17a, TRH+02, WJ12, WYZ+17, WZJ12, XBSL13, YLEB14, YMLR16, YQL+18, Zha19, ZY06, ZHG16, dCRS11]. **scale-free**

[CLL+18, JHY+17]. **SCALEA** [TF03]. **scaled** [ML19b]. **scaled-down** [ML19b]. **scales** [WQS+16]. **Scaling** [Hey19, SPH13, DMMA17, HWZ+15, KS19c, PDY14, RP08, SDL+12, XLQ18, ZLF19, AMAB17]. **Scaling-aware** [AMAB17]. **scan** [ABFL17]. **scatter** [MTK16]. **scattering** [GSB+12]. **scavenging** [KD10]. **SCC** [CLRB15]. **SCCs** [LSL+17]. **scenario** [WST+17]. **scenarios** [FGG+18, LWW+19, LSMV+15, VSR+09]. **scene** [Wan18a]. **Schedule** [XXL17, ABDR13, CNP+15]. **scheduled** [HLYD12, SAB15]. **scheduler** [BM08, CLQ+17, EME19, KMRT18, KAM11, ME08, PGC+19, PK17, SO16, ZJ15]. **schedulers** [ADI+14, KKWZ15, LL16b, NvV09, RO12a, RO12b, ZF14]. **schedules** [KBE07, LLH+18, RRR15]. **Scheduling** [AAV+17, AS17, BKS+15, DJM12, EJF+16, GRS06, IQ06, K12, KLB10, LL10, SRd09, SF10, XLY17, AJY+15, ABC+08b, ALMT19, Ang08, AMS17, ATNW11, BFM+06, BNK16, BAGS02, BM02, CSC+17, CHP17, CCC12a, CLT+16, CZY+18, CPX16, CL07, CWT11, DOS+01, DM+17, Dra17, DKJ13, DRF07, EB18, ESZ09, EQW+18, EAB15, EFA+17, FRDOR+19, GD+16, GQ+19a, GQ06, GQ04, GMV+15, GA09, GLS+19, GAS9, HKS19, HZHP09, HLG17, Hun15, IHA+15, JZ+14, JZ15, KSB+19, KV12, KBB17, KB17, KW11, KQR+17, KSP+12, KO06, KKV13, KR11, LF15, LHL10, LHK08, LHC14, LWFL14, LGY17, LGL16, LHT+09, LCY08, LQL+09, LML10, LQL+15, LYM12, LBY+16, LSJ16, LZF17, MS17b, MS18, MS+13, MBB+17, MR03, MK15b, NSB07, NC05, ON02, PRT09, PCGE18, PCF+17, PRV11, PV15, QLS13, RHRB13, RF15, RR19, RHRU+19, RHZ+17]. **scheduling** [RCA+12, RB17, SRS16, SV09, SR17, SWP17, Sod05, SK18, TKB19, TZY+13, TY+15, TLF17, TY15, TV14, VV15, WB15, WZGL06, WRC09, WL11a, WZZL13, WQS+16, XLT+17, XH+17, YWC11, ZEB10, ZWL+15, ZS17, ZWT+18, ZCZ+19, ZL12, ZH15, ZQW+17, ZCH+18, ZXX06, dAVS12]. **schema** [CT11b, SE01].
schema-mapping [CT11b]. scheme [AQRA+18, AR16, ALL+15, BJD+19, BC16, BOB13, BZD16, BBB16, CC13, CCW06, CZY+18, CDP17, DBR13, DXHL17, DA15, FLL+14, ISO+14, JNUH17, KS19c, KMA04, KTZ+18, KDW+17, LDZ+14a, LWYM16, LFWS15, LJML10, LZC14, MMS17, NR17, OFR+17, PWMX17, PY19, SCS17a, STO17, SWLJ17, SB19b, TZYL13, TC17, TKS18, sTzNL16, WYQ+13, WZC16, WLFX17, WXSH19, WWC+19, WZXZ12, XCL09, XHH12, XBZ10, XVXC14, XXX15, XXCY19, YSQM19, YKA+19, Yos06, ZEB10, ZTZ+18, ZFY+19, ZGX11, vdKEL10]. Schemes [WS09, CPXA06, ESGQ+11, zGWXT09, GCZ+17, HKA19b, LX08, LWW+19, LLY+16, LWL+19, ZDX12]. scheming [NQL+17]. Scholarship [LVN+12]. Scholes [BHPS14]. schooling [LKPM09]. schools [GKM+08]. Schur [GKK09]. Science [BSC+15, CGK+07, DMM+07, GWD15, GB+15, HF05, LZW+15, MTA+07, Sod07, WAS07, WC08, WD07, Wu18, Xu+08, ZYH09, ACF+07, ACFT+15, BKWM19, CBHTE+11, CAD+18, Che18, CDH+15, DGA+10, FKP+02, GBMM15, HMFK15, HA+i13, JCK+13, JKL+17, KA+11, LMH+14, LWL5, LFH+08b, LGD15, MCC+15, MCD+15, MWL+15, MTVF+14, MKX+15, NAP+07, Nak02, OTG+07, PGP+10, PMG+15, PC17b, PCC17, RTPPH12, SrDO15, SRAG16, SLM+10, VSB+15, WHW0, WBB+07, WBD+03, YR15, YLEB14, ZSL+10, ZWF+06, ZHY12, vHKT+11, BD08, CCK+17, FGP+11, GTGT11, HF17, PME+08, RLS+09, SPR+07, SM11, SPB12, SGB+12, VBV06, WHW0, WDGK15, YDB+13]. Sciences [Qiu11, QFG14, QFT14, ACC+15, GvHKK11, OGA+06]. Scientific [Ber07, LAB+06, AFG+05, AKM+06, BBG17, BML08, BYT+12, BSB+03, CSMB15, CGH+06, DRS+13, DHH+13, DT17, DFCF08, DK19b, GH+06, HVJ+19, HZHP09, HCD+02, JPHW02, LSE+13, LMH+14, Lan17, LL05, LPH09, LS19a, LGL16b, LTKF11, LNCY11, LHLH16, LZF+17, LFH+08b, MMMP01, MOf15, MW+12, MYD+06, MCD+15, MIR+14, MM10, NAK+15, ODS+13, OCS+05, PB19a, Par02, PFC1+09, PGO+04, QL+11, RSSM06, RCXS09, RC09, RB17, RRWS08, SM02, SAB+15, SM09, SD11a, SKA+14, SGG07, TMF+10, TMB+16, TCBR+10, TCBR91, HC+12, WRC09, YWSB19, YK10, YX+12, ZP06, ZWL+15, ZJS+17, ZCZ+19, ZDL07, dOOO+12, vRKS03]. SciScope [BvIF10]. SCM [PS19a]. scope [BB+13]. scratch [YWW+10]. scratch-pad [YWW+10]. screening [GCPS+14, JvAB+15, KBT+14]. script [MTT15]. script-based [MTT15]. Scripting [BYT+12, Nob08]. SCRRM [DA15]. SCTP [DLP07]. ScyFlow [MYD+06]. SDIVIP [YNX+16]. SDK [CG01]. SDN [Bai17, CKL19, HDX+17, IUCH+17, PCsHL18, TAMC19, YC+19, ZW17]. SDN-based [TAMC19, YC+19a]. SDN-IP-based [PCsHL18]. seals [ZDJ+18]. seamless [cWSTY19]. search [And13, AMVOSGAC17, BKS18, BMS+09, BZD16, CMW02, CLH+16, CRG19, DXG13, DAC12, DKMM14, DOJ+19, EN19, FMS15, GS08, GKS+07, HKA19b, IPGCMW18, KHF+17, LS19b, MPR04, PWS19, PPST09, RFR10, SRM13b, SER15, SLP06, SR17, WMC17, WJP+14, WZ+16, WS19a, XLYX11b, XZ+11, YPLJ11, ZK08, ZBZH11, ZHZ+13, ZCL+18, ZHX+19, ZCS06, sCR19]. search-space
[GKS+07]. **Searchable** [HKA19b, MML16, YZCT17], **searches** [LLB04, RM03]. **searching** [SL14]. **SEC** [GSK19]. **SEC-H5** [GSK19].

**SecNRCC** [XBW+15]. **second** [LGP19, Ang07, CL08, CR13], **secondary** [LS05, ZGL19].

**second** [LGP19, Ang07, CL08, CR13]. **secondary** [LS05, ZGL19].

**SecSecNRCC** [XBW+15]. **second** [LGP19, Ang07, CL08, CR13], **secondary** [LS05, ZGL19].

**SEEK** [HKA19b, MML16, YZCT17]. **searches** [LLB04, RM03]. **searching** [SL14]. **SEC** [GSK19]. **SEC-H5** [GSK19].

**SecNRCC** [XBW+15]. **second** [LGP19, Ang07, CL08, CR13], **secondary** [LS05, ZGL19].

**section** [STS19, ZQH12, RBP12], **sector** [PCsHL18].

**Secure** [ALZR11, DXHL17, FXX16, GQH17, GSK19, HZY+19, KKDS19, LMO15, QZDJ16, SCS17a, SB19b, WS19a, ZMZD11, ZZ14, ZZ15, ASE+17, AYSZ14, BOB13, BZD16, CSL+18, CLMM12, CKL19, DK09, DLZ+17b, FLL+14, FIO15, GKM19, HKA19a, HWQ+16, JSR+19a, KD10, KTZ+18, KDW+17, LLLJ14, LDZ+14a, LCC+18, LBY+16, MWJ+10, MG09b, NR17, PWS19, PY19, RSKK19, SWV+16, SWZ+18, SC19, SZXG19, WLW11, WLWX14, WLWX16, WZL+17b, XCHK14, XWXC14, XBW+15, XXX15, YZCT17, YWM+10, YL16, ZYFZ19, ZNT+16, ZQD16, ZGX11, ZZ19, KKK+19].

**Secure-CamFlow** [KKK+19]. **Secured** [SM19b, CK13, MBB19]. **Securing** [LNG+16, VT15, XLWX14, XLWX16, WZL+17b, XCHK14, XWXC14, XBW+15, XXX15, YZCT17, YWM+10, YL16, ZYFZ19, ZNT+16, ZQD16, ZGX11, ZZ19, KKK+19].

**Security** [AKK+07, BM04, Boe12, HJTX17, KV12, Kin04, LB19, NPM19, SK08, WZC16, WCWB19, XZ09, XAK16, XSMZ16, XBK17, XBM14, YWT+12, Zha08, AI17, AAHA18, AMS17, CJC18, CGOF15, CJC+18, COC18, CGI17, DXWD16, FPC15, IZXM09, KKK10, KKK+19, KJ´S+15, KWXY18, LSZ19, LZC14, LLSL15, MCWL06, MKX+15, Nam19, NLYZ12, Nis18, OKO18, OK18, OEP+15, PHY+18, PVCS18, PMB15, PMG19, SGJ+17, SVY19, SW09, SWHL16, TWZ+19, WTEG17, WAD12, WR17, WT18, XHZ12, XADLC15, XBCW19, YZXW17, YMLR16, YJZZ19, Zen19b, ZYY+19, HYQ17].

**Security-aware** [KV12]. **security-level** [KJ´S+15]. **Security** [AKK+07, BM04, Boe12, HJTX17, KV12, Kin04, LB19, NPM19, SK08, WZC16, WCWB19, XZ09, XAK16, XSMZ16, XBK17, XBM14, YWT+12, Zha08, AI17, AAHA18, AMS17, CJC18, CGOF15, CJC+18, COC18, CGI17, DXWD16, FPC15, IZXM09, KKK10, KKK+19, KJ´S+15, KWXY18, LSZ19, LZC14, LLSL15, MCWL06, MKX+15, Nam19, NLYZ12, Nis18, OKO18, OK18, OEP+15, PHY+18, PVCS18, PMB15, PMG19, SGJ+17, SVY19, SW09, SWHL16, TWZ+19, WTEG17, WAD12, WR17, WT18, XHZ12, XADLC15, XBCW19, YZXW17, YMLR16, YJZZ19, Zen19b, ZYY+19, HYQ17].

**Security** [AKK+07, BM04, Boe12, HJTX17, KV12, Kin04, LB19, NPM19, SK08, WZC16, WCWB19, XZ09, XAK16, XSMZ16, XBK17, XBM14, YWT+12, Zha08, AI17, AAHA18, AMS17, CJC18, CGOF15, CJC+18, COC18, CGI17, DXWD16, FPC15, IZXM09, KKK10, KKK+19, KJ´S+15, KWXY18, LSZ19, LZC14, LLSL15, MCWL06, MKX+15, Nam19, NLYZ12, Nis18, OKO18, OK18, OEP+15, PHY+18, PVCS18, PMB15, PMG19, SGJ+17, SVY19, SW09, SWHL16, TWZ+19, WTEG17, WAD12, WR17, WT18, XHZ12, XADLC15, XBCW19, YZXW17, YMLR16, YJZZ19, Zen19b, ZYY+19, HYQ17].

**Security-aware** [KV12]. **security-level** [KJ´S+15]. **SEEED** [JZL14]. **seeking** [HAN19]. **segment** [FJZ+14]. **segment-based** [FJZ+14]. **segmentation** [ALVY05, BÇG14, EMEY14, LLY+19, LLZ+17b, WJ12, YHJ+14].

**Segregation** [Ang08]. **Seidel** [LL19c]. **Seidel-based** [LL19c]. **Seine** [ZP06].

**Seismic** [JZ10]. **ACC+12**, **PWJ10**, **RSTV05**. **seismogenic** [MZS+10]. select [SS19a]. **Selected** [WC08, Xu08, GZX17, PDD14, XY17, YWA07, WAS07]. select [EAGVBVS11, MM17, PTL+16].

**Selection** [DLT+16, HJTX17, PB07b, PK08, BV16, BKND16, BFVR15, CDA09, CWC10, CEB+18, DLZ+19, DK19a, GYM14, GLMT15, GMVRGS15, HAJL16, HAA+17, KOOB15, KC18, KTM+09, LFH08a, MSM19, MABP13, MBMB18, MBC+14, MSM+14, NNvVa09, PWH18, RR19, SAMS19, SK18, TPV17, XY17, YYC10, YLD13, ZK08, ZLY+13, ZZY+19, ZWX19, ZFXJ19, ZWL+17].

**selective** [FSM+19, Jon09, LZC14, WJ12, YLY+19, ZLZ+19]. **Self** [CLL+19, DCCZ18, GCSB19, HHKA14, MO06, MO15, VD05, WLZ11, XLT+17, XWXC14, AA19, AM15, BFVR15, Bri16, CEMR19, CSL12, DHV03, DK19b, DYY+19, FMS11, HM16, KF15, KOO12, KFM17, LAM+09, LML10, ML19a, NSBR07, PB12, RPK08, RVRD10, RS16, RFR10, SR19b, VH12, WFT17, XDE+04, XJZ13, YLD09, YWC11, YZZ+17, ZWMT12].

**self-adaptable** [ML19b]. **Self-adaptation** [XLT+17, WFHT17].

**Self-adaptive** [HIIK14, BFVR15, CEMR19, CLL+19]. **Self-balancing** [DCCZ18]. **self-building** [Bri16]. **self-caring** [KF15]. **Self-certified**


self-x [RS16]. selfish [LYF+17]. selfishness [ZQLZ12]. Semantic [FHH15, FGP+11, GKP+19, HHWZ08, LLJ18a, LLJ18b, LLZ+17a, LFH+08b, WLDO08, WGY+19, XZZ16b, YZCT17, ZM13, AMRW06, BH09, CWMZ06, CZQ17, CXT+18, DNB19, DHC11, DYW16, FTRAY15, GLZ19, HmLGP03, IÀE11, LLWS09, LFZ07, LXL+09, MHK+18, MSST15, PZH+15, PCS+12, SIS19, TLPS18, VvSi07, WZT11, WZ16, WS19a, XLYX11a, XLMH14, YFL18, ZWL16, Zhu07, ZYL+08, ZZ11, ZX11, DHC13, GH08, GRTX18, OBD+18, WGP+15, ZGST08].

semantic-aware [DYW16]. semantic-based [MSST15]. semantically [CLZX10, FHO+15]. Semantics [FZ08, SD11b, ZL09, Zhu15, BGM03, CT16, DDF+17, EdPG+10, FMM08, FM08, KKL09, mLGp03, SRN+15, VSKK09, WDQ+18].

semantics-enabled [FMM08]. semaphores [SSMB15, WKL14]. Semi [IPGCMW18, KT19c, TJ17a, AQRA+18, BCTB16, DLM15, DH13, YSW19, MBB19]. Semi-asynchronous [IPGCMW18]. semi-automated [BCTB16].


Sensor [SIS18, AKM13, AAF17, ANPR16, BNNH19, BFH17, BGB16, BHT13, CQX14, CSB+16, CS13, DLM15, FH13, GBJ19, JNUH17, JBL15, JZMD19, JWZ13, KCB017, KC18, KDW+17, LL13, LDPZ14, LMO15, MOL15, MO15, NOL+17, OEP+15, PMB15, SCS17a, SZH17, SWS+18, SGCG09, SC07a, WTEG17, WZB10, WZ+15, XBM15, XGH15, YBO10, YKD+15, ZGP10, ZGXi11, dCHM12]. sensors [DFH10, MH07, SCS17a]. sentence [YHASZ19, YLZ18]. Sentiment [GC18, LWP19, THQ19, KTHA18]. Seoul [WKL+11]. separation [CLA18].

Sequence [BS04, SHH+14, AMHC11, CPS+14, KT19c, LLB04, LMCL19, LSI15, MP17, SCR11, SRF13]. sequences [BWD15, CL14, dFDOSR+19, HSHT14, LS15]. sequencing [KMJ14, MSL+14]. sequential [AUHW19, Dut17, MO02b, SK04, SM19a, SLM05, TNIB17]. serial [LCH+06]. serialization [BP03]. series [JLQ+17, LLX+15a, RTMZ13].
SERNOTATE [CHH18]. Server
[Lia16, ATKH+17, ACG15, CKOG10, CWL03, DFLNP07, GGS+16, GGC19, HKAC14, KF18, LBdM+16, LGD15, MVML11, PRS01, RGA15, RO12b, dFMSPSW06, WDT18, ZABP18, ZBZ+18]. Server-side [Lia16]. servers
[AAI12, BDP18, GMPT15, KSC12, RJ01, TK10, WLW11]. Service
[ADD+05, CR13, FK19, GRQ19a, KTM+09, LWL+06, MN10, ROA+07, RCXS09, RDP10, WBHW08, WL02, AaBT16, AaBT17, AP10, AAHRW04, AMRW06, ACFT15, ACS10, BTCGL17, BV16, CYD+15, CLTT13, CK13, CW11b, CM06, CHH18, CM07a, CLH+08, CPSP17, CM02, CRGR+12, CMS17, CKBB14, DIM18, DFLNP07, DCP+17, DPGA11, DZM+17, EdPG+10, ET09, EAVGV14, FCY17, FM08, FN13, FP02, FGG+18, GYM14, GLMT15, GCN09, GKP+09, HAE09, HLZD18, HYL+19, HFTQ13, KKTHL13, KM13, KJS+15, KMR18, LDPZ14, LLX+15a, LWY+16, LGJ17, LDC13, LFH08a, LZC08, LW13, LLSL15, LFHT15, LLC+15b, MWPL15, MWPX17, MvNK+06, MSL+14, MCC+15, MZW+16, MK15a, MPVT17, MLVBW12, NLFA19, ORD13, ORGD15, PSM03, PPC+15, PPBB14, QEB+10, RG18, RBO+02, RHS17, STO17, SBBE07, SFCAV16, SGD15, SAMS19, SVY19, SKJ17, SPSNvS07, TAA+19, TTV08, TZLC15, TLPS18, TW+19]. service
[TPV17, VT15, VBW06, VGN+16, WZZL13, WSL15, WFHT17, WSZ+18, WHW10, WXLM19, XDL+11, XWD+12, YSL+15, YLD13, YT15, YS07, YF13, YCWOH7, YLJZ13, ZLY+13, ZDC15, ZM13, ZFT08, ZBZH11, ZHG16, ZFWJ19, dRL10, vdKEL10, CWWL13, DHL13, FTR15, MCCG11, TKB16]. service-aware [STO17]. service-based
[CM06, EAVGV14, GKP+09, SBBE07, SGD15, WFHT17, YT15]. Service-oriented
[ROA+07, RDP10, WBHW08, AARRW04, ACS10, CLTT13, CLH+08, EAVGV14, HFTQ13, KJS+15, LFH08a, TTV08, WZZL13, YLJZ13, ZFT08]. Services
[HF05, AMBT17a, AMBT17b, ACF+07, ABR+06, ACMM06, AAB+05, BCX15, BAZ18, BHA+15b, Can06, CV07, CSL+18, CPB07, CEMR19, CTY15, CR12, CT12, CSL08, CLL+19, CGH+06, Cuz11, DCY+08, FHH15, FMP10, FKP+02, FAB+07, GCBB19, HFDJ10, HM16, HCD+02, HLW10, Hu15, Jun16, KGGT12, KKB11, LM08, LWYM16, MG09b, MA18, NAP+07, PSLC11, PRD+13, PGP+10, PCS+12, RB12, RHS17, SAC18, STO17, SDB02, SM04, SPJ14, SFH13, SAM+17, TSL15, VSC17, WBC+02, WL02, WGG+07, XXX15, YESG+17b, YESG+17a, YJJZ19, ZC15, ZZ18, ZWF+06, AFP008, CEN+06, GMS09, MSL+14, PPW+05, WGP+15]. services-based [HFDJ10]. servicing [OK15]. servlet [BPdM06]. SERVMegh [KSK17]. SeShare [HZY+19]. session [JK10]. sessions
[AG17a, TABB+06, YLY04]. set [BGM03, BXLJ16, BHB13, CSMS+19, FJP+05, Kui14, LHC14, WCR+14, YLWZ18, YY19, vRKS03, TJD+17]. set-neural [YY19]. set-oriented [BGM03]. sets
[BZD+10, LZZ+15, MKKB04, RKS02, YWBS19]. setting
[GSWJ19, MML16, WLZ+18]. settings
Socket [KW01]. Sockets [KKJH03]. SOF [DH13]. soft [BDW14, EZJ+18, PSM03, TTPJ16, GCWE15]. Software [DHM14, HY12, TSA+19, Akt18a, ACS10, BLCC19, BPL+19, BDH15, CBPP02, CIZ+15, CLL+19, CJI2, CLRB15, DVL13, FO18, GGRH16, GKM19, HPVRPF14, HCD+02, HLGL17, JK10, KTR11, KFS+06, LLC+15a, LKKL16, M12, MD02, MM10, MGR02, NTK08, PRS16, QH10, RBO+02, RVVD+17, SKK01, SPLO06, SGD+18, SRTG+07, VEJ17, WmV+09, XWFH08, YLL+18, ZDR+18, ZTGW17, vLRF+02, Par02]. Software-based [DHM14]. software-defined [FO18, HLG17, ZTGW17]. software-intensive [GGHR16]. SOGC [JM19]. soil [WYY+19]. solar [ADSV16, JZL14, MAVG16]. Solaris [YL01]. Solomon [CSWB11, KCS07]. solution [ASE+17, BJ01, BEQOR17, Bok12, BLDW16, CNAQ18, CSTV06, CS16, DPS07, CQIL18, He19, HSHT14, HC07, JN03, JL10, LZZ+15, MSK19, NDT+16, PCshL18, SGD15, SPJ14, YHK09]. solution-based [BLDW16]. Solutions [ZQH12, BDH15, CG01, WJJM17, ZKA07]. solve [AMTM17, CNK18, SSIH19, YT19]. solver [BDE+19, BZB17, BPS14, CL18, DVD+12, DdB01, FYKW15, GPS+07, GB07, HK07, KMJ+17, LXRJ13, MCCD18, MSB17, MJ15, PS10, SK11]. solvers [AAC+15, ABF+17, ABC19, ADF+19, BD06, CSMK17, CSMK19, KHVK17, MQOQOH01, MB14, MAK18, NO02, Nak02, RHKB11, SK09]. solves [LLH+17]. Solving [ABV05, BDR+17, vSB06, CW07, JPWH02, KD07, LAC+08, LWK15, LZZ+15, PIAH12, RLVRGAI14, SD02, SD15, WBD+19, WLL16, ZS17, ZLT+16]. SOM [YYZ+17]. Some [ZQK15, CG01]. songs [RP19]. SonicMQ [MP05]. sophisticated [JVP18]. SOR [KC13]. sort [KVGH11, PSHL11, HTBR12, HTBR16, PPDSTB17]. sorted [WBD+19]. sorting [LB07, NSN+17, PSHL11, SJVR15]. sound [CMT13, PPMH15, WWY19, ZHJ19]. source [BZB17, BDP+14, FE18, GB19, GP07, HSL19, JBL15, LHZS19, N08, PPC+15, PPR19, TLM06, TLM17, WBC+17, YGW17, YWA07, YKD+15, CGK+07, MM10]. source-based [JBL15]. source-locations [JKD15]. source-to-source [FE18, TLM17]. sources [GD07, PHY+18, YHYY19, ZSL+15]. southwest [JW10, ZZYW10]. Space [GFL04, MJL01, ADK+16, BYN+17, CPEA18, CZ11, CW17, GKS+07, GCWE15, HKS+12, JCVU15, KA09, KAP13, LCT16, LLF08, LWLZ11, LB07, MB15, PL15, TJ+17, WBD+03, XXY+16, ZP06, ZDB+14, ZM13, ZJS11]. space-filling [LBH07]. Space-time [GFL04, MJL01]. Spaces [PPDSTB17, FGP+11]. spacial [DZC16]. Spallation [CGK+07]. Spam [IZXM09, LL18]. spammer [ZHC+18]. spamming [WWL+17b]. spanning [LDM13, NJ15]. Spar [vRKS03]. Spark [DLT+16, GC19, GRW+19, LXP18, RCCH19, SZT18, TVCB19, WLL+17a, WZL18]. Sparse [ALK16, PMG19, Akt18b, ABC19, ADF+19, BD06, BPS14, CLF+17,
CXC + 18, CNP + 15, ER12, FJZ + 14, GWLW17, GW15, HZL19, JSS07, LLH + 17, MUKY18, MNL15, NA15, OAS + 15, PHCR09, PLR + 14, SAD13, SLB08, TDM + 15, TLPS18, VFG11, WZ04, WQG + 18, XYSW18, YZR14, ZDG + 14].

stores [ZH+13, ZFXJ19]. storing [ZZC17]. streaming [ABR+06, CA06, DJM12, FAB+07, IHB15, JK10, LRRS19, MABP13, MB16, TCBR11]. streams [BMPP17, DZM+15, EPA15, HMPPT13, LOSJ17, PF12, TJ17b, TVCB18]. strength [JSP15]. strike [LMS18]. stripe [LHH+17]. Strong [Fen01, SA19, MZS+10, MRS08, SVY19, AYSZ14]. strongly [Rav16, RSM01]. Structural [SVS+08, SSZ14, MRY+16, MJJD15, MJD17, XLZD13, Xu19]. structural-connected [MRY+16]. Structure [SCGZ19, BPL12, BTAD13, CEM+17, DPS16, DGL+12, GLM+16, HC07, JDH+18, JHCH19, JYN+17, LXYC17, LLY+19a, LS05, MLW+13, MJL01, MB14, QLLS15, RGL+15, TKHA13, WHX19, YC19b, ZMJZ10]. Structured [CMB06, CZ11, GVC10, LB11, SGM18]. structures [CWYX17, DDF+17, GS04b, MUVS13, SL14, SER15, Wan18a, vRS05]. student [ZLW+18]. Studied [HLW+19]. studies [ABB+15, EMB11, KCZ+05, LOKW+10, SZT19]. Study [GZH19, GHLS19, HLM19, L19, LHB+19, PCsH18, TCP+05, XZZ+16a, ZL19, ZZYW10, ZGL19, BdL06, BY12, Bok12, CMCAA17, CHZ10, CEB+18, DYY+19, DT01, EGGA+04, EMS11, EDB+14, FPHZ19, GSB+12, GKS14, GFF+09, GPP+18, GRS+17, HKS+12, HPVRPF14, HWY+17, JJGL13, KF15, KOK14, LBTE14, LLN+14, LL18, LFX+08, MCP+12, NR08, NJ15, Pan20, PRC+14, PSHL11, PBF15, PNJP19, RCC17, RNAD19, RTMZ13, RVVPD+17, RGL+15, RMCHMG15, SBC15, SCBH09, SvDO15, SE01, SLC+18, SLC+19, VJ19, WWL+15, WWL+17a, WTN07. storage-based [Yu18]. store [KM03]. STRAIGHT [NA15]. Straight-line [NA15]. Strassen [DS04]. Strategies [OGA+01, SR+09, SF10, VSK17, ABC19, AZF+12, BGGS14, BGV+01, BD04, BDV02, CWC10, CHZ10, CHZ12, DT01, Fer13, GS08, GRGP12, GMPT15, LHL10, LFHT15, LCMY13, MBP16, MCAB+02, PLC+19, PFC+17, RVVPD+17, SM11, SSSI16, ZABP18]. strategy [BGdCCA11, BPL19, CSL+19, CMW02, CZL+19, CAKH17, DXG13, DRS+13, DS07, DC19b, FCY17, GDJ16, HKS19, HBKM06, JML+16, JK13, KC18, LL+15a, LCW+19, Li19, LCYJ08, LNCY11, LHH+17, MYY18, MDD+17, MB18, MW18, PMAL14, PGL+17, PLW+18, PSV19, RM03, SV09, SCLL19, SBDP15, TYHL12, TL19, WDG+14, WWX+19, XDJL18, XWH+17, YCL11, YYYZ19, YYY+12, ZLY15, ZLY+15, ZYY+19, ZLYZ+19, dOOO12]. strategy-proof [ZLH15]. Stream [MY17, RS11, dRADGF17, CLNR18, LBOE18, LSJ16, LMDP19, MYY18, QXXZ16, RHD+16, SCS17b, TJ17a, ZWL19]. Stream-based [MY17, MYY18]. streaming [ABR+06, CA06, DJM12, FAB+07, IHB15, JK10, LRRS19, MABP13, MB16, TCBR11]. streams [BMPP17, DZM+15, EPA15, HMPPT13, LOSJ17, PF12, TJ17b, TVCB18]. strength [JSP15]. strike [LMS18]. stripe [LHH+17]. Strong [Fen01, SA19, MZS+10, MRS08, SVY19, AYSZ14]. strongly [Rav16, RSM01]. Structural [SVS+08, SSZ14, MRY+16, MJJD15, MJD17, XLZD13, Xu19]. structural-connected [MRY+16]. Structure [SCGZ19, BPL12, BTAD13, CEM+17, DPS16, DGL+12, GLM+16, HC07, JDH+18, JHCH19, JYN+17, LXYC17, LLY+19a, LS05, MLW+13, MJL01, MB14, QLLS15, RGL+15, TKHA13, WHX19, YC19b, ZMJZ10]. Structured [CMB06, CZ11, GVC10, LB11, SGM18]. structures [CWYX17, DDF+17, GS04b, MUVS13, SL14, SER15, Wan18a, vRS05]. student [ZLW+18]. Studied [HLW+19]. studies [ABB+15, EMB11, KCZ+05, LOKW+10, SZT19]. Study [GZH19, GHLS19, HLM19, L19, LHB+19, PCsH18, TCP+05, XZZ+16a, ZL19, ZZYW10, ZGL19, BdL06, BY12, Bok12, CMCAA17, CHZ10, CEB+18, DYY+19, DT01, EGGA+04, EMS11, EDB+14, FPHZ19, GSB+12, GKS14, GFF+09, GPP+18, GRS+17, HKS+12, HPVRPF14, HWY+17, JJGL13, KF15, KOK14, LBTE14, LLN+14, LL18, LFX+08, MCP+12, NR08, NJ15, Pan20, PRC+14, PSHL11, PBF15, PNJP19, RCC17, RNAD19, RTMZ13, RVVPD+17, RGL+15, RMCHMG15, SBC15, SCBH09, SvDO15, SE01, SLC+18, SLC+19, VJ19, WWL+15, WWL+17a, WTN07.
[dCPD13, DBH+17, EN19, KHL17b, RK15, WZYG19, XDE+04, ZHT08, ZT09, ZS17]. SWARP [PBSB04], Sweep
[YBC+07, AAE+09, ISO+14, RMCN+07, YK10]. SweGrid [GEJ+08].
SWIMM [RGB+15]. SwinDeW [LCYJ08]. SwinDeW-G [LCYJ08].
swirling [SPZ+10]. Swiss [KBH+15b]. switch [LXP+12]. switched
[CHM15, CKRO13, MOK04]. switched/optical [CKRO13]. switching
[MVJW14], SX [MAH+02, OCC+05]. SX-6 [OCC+05]. Sybil [AQRA+18].
SybilTrap [AQRA+18]. symbolic [FSPC+02, SLC+18, SLC+19].
symmetric [AYN+14, BDR+17, BIK+11, OAS+15, YDS+14, YTD17].
symmetrical [ZJL15]. Symposium [GJ17, GZX17, Run10, WCWB19].
SymS [ZJL15]. SYNASC [FB16]. synchronisation [WBM+10].
synchronization [ASS19, BHH09, CS17, DVB14, DKJ13, JK13, JOK+18, 
LLH+17, MS05, NN07, PCT04, RCA+12, SACRGL18, ZTGW17].
synchronization-free [LLH+17]. synchronize [FJ05]. Synchronous
[GDD+04, Kese, PSRR14, dRDrCRR16, YB12]. synchrotron [ZWW14].
synergistic [ESZ09]. synthesis [TLM17]. Synthesized [YY19]. synthetic
[FBV+17]. System [AS15, AFR09, GEJ+08, GED+18, LZG+19, PXY+07, 
XZ09, Zho06, ZBC+07, ACJ10, AOK19, AMBT17b, AAC+15, ABC19, 
ABK+18, ANCA19, Ang08, ADG+19, ASG+08, BCI+18, BHI+16, BFM+06, 
BRW10, BAS07, BB19, BAT13, Cha03, CZWH07, CIZ+15, CYZ+18, 
CHX+19, CLS+14, CLRB15, CLX+12, DL10, DLK+18, DZZL19, DT17, 
DZM+15, DMM17, DCA17, EKE+04, FPH19, FPC15, FWU+04, GQJ18, 
GSR+19, GLS+19, HGB+06, HDDD09, HIA+18, HXY+12, HCD+18, HK01, 
HJM+11, HYX05, HKG08, HG11, HH19, HY12, HON04, ISS+02, ID8+10, 
IT03, IBVA+02, JOC+15, JDB16, JTD+19, JLHH14, JK10, KGP+19, KKD19, 
Kar16, KM19, KB17, KL02, KM03, KEG+08, KCKC15, KAP13, KSM15, 
KKL09, KN19, KCZ+05, KB18, LLLR03, LM08, LLWS09, IWC12, LLL15, 
LCC+18, LCW+19, LLS+18, LMMP19, LWS19, LAB+06, MS1a, MS17b, 
MS18, MSST15, MMW+12, MVRK18, MHR14, NVvVdA09]. system
[NSAK13, NNSAK16, NS19, PB12, Pac16, PPSG03, PN19, PBD+15, PFG19, 
PP10, PGO+04, PGW+08, RGAK15, RW10, RSTV07, RG17, RSTV05, 
SACJ04, SNB+01, SM19b, STL+15, SZR16, TYHL12, TTL06, TKA+02, 
TMS+12, TMA03, VYKM19, VGL06, VZB19, WKT08, WLDL08, WXY10, 
WR17, WJXS18, WLL03a, WT18, XHZ12, XBB13, XTLG08, XLL+12, 
Yan19b, YYWQ19, YL01, ZABP18, ZH08, ZEB10, ZL18, ZHG16, 
ZZ+18, ACD02, BAI17, PA08, WYW+17, WKL14, Pan20]. System- [AS15]. 
system-aware [BFM+06]. system-level [KAP13]. Systematic
[AT17, FG16, RWK17, ABS16, FVRM15, GRQ19b, WW19]. systemic
[BGV+01]. Systems
[AS19, FK19, FG06, Fox10, Fox17b, HTW14, Man08, MN10, OM06b, PDD14, 
RK01, SNM15, Uro7, XLLW11, Zha08, ZC19, AFGL09, AM15, ALZR11, 
AML+15, AGMR05, AC06, Ano06, APHB16, BDR+17, BRK+17, BBP15, 
BFR05, BgdCCA11, BEDK18, BB02, BCM+07, BKH08, BMM19, BKN16, 
BDV02, Bri16, BDP+14, BLSP11, CCCW13, CGBNM17, CKOG10, CGIP16,
CLTT13, CLYC16, CBPP02, CY07, CHM15, CLT+16, CCW+15, CLZ+17, CM06, CPXA06, CTV06, CGN15, CN16, CWM18, CCT15, CKD+19, CEM+17, CDP17, DD17, Dab09a, DBGA16, DC19a, DMR+07, DFPT06, DLH01, DZW+11, DZL+17a, DZL+17b, DKJ13, DKJ16, DvNM+11b, DL07, DXZ+16, EGGA+04, EBSG01, EB05, EJF+16, EFK+17, FE18, Fe12, FG16, FAPC16, FVRM15, FD01, FMT16, FN13, FBV+13, Fox17a, FJG+13, FM08, GGHR16, GTFA13, GSB+12]. Systems [GMMT17, God12, GPVCdBRO12, GPP+18, GOLL17, GCL08, HKVW16, HumLGP03, HTR10, HPD+15, HWY+17, HCK+08, IOOH12, JAU19, JAA08, JL10, JSS07, Jon09, KNT+01, KT19a, KSN16, KAL07, KO1, KLO2, KSG11, KHKW05, KR15, KKK+19, KSS+17, KRS11, KHZ+15, KDO7, LLM19, LLD19, LKTE14, LKTC08, LZ08, LZW13, LDPZ14, LZW+16, LF+17, Lya16, LMKZ08, LNCY11, LTM+14, LHH+17, LBD15, LRS15, LTK17, LCH+06, LLQL14, LDS+08, MWP15, MBS16, MG16, MG09a, MSP+13, MJ11, MP17, Men03, MSB17, MME13, MSK19, MWW10, MvWL+10, MV16, NLYZ12, NR08, OM06a, PVR+09, PLC+19, PWMX16, PC14, PRG15, PCJ17, PDSTB17, PT12, PQP13, QB12, RE03, RS16, RMCA12, RHT13, RHZ+17, RCA+12, RG17, RHBK11, RHL+18, RCT03, SRS16, SJB14, SK09, SZM19, SJSVR17, SAD13, SLV12, SDH+17, SDL+12]. Systems [SBC15, SARL13, SCGZ19, SCS17b, SKJ17, SFH13, SFT15, SW09, SO16, SD15, SSMB15, STWSP12, SS07, SRT19, TLY+15, TL17, TL19, TKK+11, TVCB18, TNO07, TW07, VLMPS+18, VDPC03, VH12, WS09, WAD12, WML+19, WCC04, WST+17, WTN07, XPS+15, Xia18, XWH08, XXW+17, XGC19, XCHY13, XPWF15, XXS13, XLL17, XLY17, XBM14, XLL+15, XLY+16, XWPM19, YTF+01, YWY+10, YCL11, YGG14, YZW+15, YHH13, YZ14, YLY+18, YLYL17, ZLK17, ZWT+18, ZTZ+18, ZQZ+16, ZDC+09, ZFJ16, ZCCX17, ZQW+17, ZJL15, Boe12, CR08, HF17, Pie08, VK12].

theft [VRDTB+16]. their [BDV02, EQW+18, FLYL16, SSB+14, ZIC15]. theoretic [BXLJ16, BJC17, CG10, ECP18, FCY17]. theoretic-based [ECP18]. Theoretical [DYY+19]. theory [BCCM16, BEQOR13, CHPvdG07, CQXW14, CLW+15, FXX16, Fox12, GRQ19b, Hum15, JLO+17, JDH+18, JCH19, KKW+14, LZG+19, NnvVdA09, RKS02, SLT+06, WWS+12, YY19]. therapy [PBD+15]. Thermal [CC15, MO02a, TKZQ17, ACIC+13, IRB19]. Thermal-aware [CC15, TKZQ17, ACIC+13, IRB19]. thermal-hydraulic [MO02a]. theta [BG17, HLA+18, Kri19]. theta-joins [BG17]. thin [BYN+17, MBP16, PIH04]. Things [IAH+15, PCJ17, AA19, CMCA17, DFG18a, DZW+11, ABMMR19, AA19, AD15, BKS18, CHX+19, CLH19, EH18, GED+18, KJ19a, KCH18, KG19, MK15b, MB15, OKO18, SMH+19, S15b, SRN+15, ZIC15, ZZY+15, dMd+17]. thinking [HAN19, LMH+14]. thinning [JdM12]. Third [Mar05]. thousand [RMP+13a]. thousand-core [RMP+13a]. thread [BDH15, CMMB13, CDN15, DBH+17, LZW17b, MGI17, OTT19, RAFD14, RO12a, RO12b, SU18, TPGC15]. thread-aware [RAFD14]. thread-block [TPGC15]. thread-level [MGI17, OTT19]. threaded [BIK+11, EFG+03, EHSU07, TMAG03, ZJL15]. threading [QB12, YA04, Tan12]. Threads [Bou06, FBV+13, PSM03, ZDR+18]. Three-dimensional [JdM12, Ogi02, Wan18b, ZJH19, Boe12, CLS14, JN03, LDZ14b, Li19, MABP13]. three-party [HLC19]. three-phase [Li19]. three-point [LDZ14b]. Threshold [KR15, ZCC+06, AR16, zGWXT09, KW11]. Threshold-based [KR15, ZCC+06]. thresholding [LYL+19]. throughput [EDB+14, EB14, FMT16, JOG+15, KJ19a, LCYJ08, MS07, PFG19, QXS+17, SKA+14, SAM+17, SVN12]. Thrust2D [SGM18]. Tianhe [LXW+16]. Tianhe-2 [LXW+16]. TIB [MP05]. TIB/RV [MP05]. ticket [MS19]. tile [HLHC12, LXX+19]. tiled [GLS+19, PRS16]. tightly [SV09]. Tile [WFKS18, DFL14, HLYD12]. Tile/line [WFKS18]. tiled [BLK08]. tiling [GKS+07, GFL04, GBFP09, KKK004, RPR17, WFKS18]. Time [AdCPdSD17, ACCM17, Fox17b, HTW14, Tur04, VK12, ACC+12, AT01, AWR17, AA19, ABK+18, BVGVE11, BLA+14, Bri16, BPM17, BJ17, CDMS15, CY07, CHX+19, CN16, Cuz11, DFG+18b, DVB14, DLH01, DJ19, EN09, EPA15, EAGVBVD11, EABVGV14, FRK12, FRdOR+19, FO18, FLB+05, FAB+07, Fox17a, FOTW04, GGS+16, GFL04, GCZ+17, HZHP09, HPS12, JLO+17, JTD+19, JOK+18, KOO12, KHM+11a, Kal11, KGK17, KD15, KyG+14, KBB11, KZY15, KSR14, KMR18, KTZ+18, KWK05, LL10, LH05, LXX+15a, LS19a, LWB13, LZC09, LLC+15b, LTK17, LCH+06, MWPX17, MBGC16, MSP+13, MJL01, MI17, MOQ0H01, MFF04, MCCD18, MSP+19, MOO17, Not16a, OSK01, OKW18, PB12, PSM03, PZH+15, PSW11, Pu13, PRU14, RS16, RF15, RHT13, RTMZ13, RVV+17, RK15, SKS+08, SSM04, SC07a, SK18, SPS17, SZR16, TJD+17, TLM17].
time [TY15, TBTZ18, VHBB03, WYZ+17, WCZ+18, XLY+16, XHD+19, YJL12, ZTM12, ZXX+17, TYZ+18, ZG04, ZGRSC10, NDP+05, SKD+04].
time-independent [CDMS15]. time-limited [KTZ+18].
time-multiplexing [GCZ+17]. time-series [JLQ+17]. time-triggered [EABVGV14].
Timeliness [ZFXJ19, LWW06]. Timeliness-aware [ZFXJ19]. Timely [CXW17, VO15].
times [MV16]. timing [vEGW06].
tire [ZGL19].
Tit [LPY+08]. Tit-for-Tat [LPY+08].
Titan [KSB+19]. TLBs [Jac02].
Tmall [ZYZ16]. Tmall-specific [ZYZ16]. TNO [DS02]. TOAST [RPRG17].
today [DH15, LZWD+15].
TomusBlobs [CTAB16].
Tongue [LYL+19]. tool [AV+15, DHH+13, FJP+05, HCG07, JK06, KSR14, LCC+03, OTT19, PPR19, RMG+10, SL14, TF03, VDPC03].
Toolkit [Jac02, ACG18, BM02, DKMV07, LPC+19, PTCN07, SHG+07, SCV+08, TVCB19, ZY2C17, MTD+02]. Toolkits [QEB+10]. Tools [BJ18, GM10, ABB+10, AGMR05, EHSU07, Ger05, GvHKK11, Hol06, KAMB19, LLMK18, LGdVH13, MWW10, MM10, PKB03, ZYL+08].
toolset [BBGA03, GWW+10, KvGS+14]. tooth [ZHJ18]. Top [XLL+18, LFZ07]. Top- [XLL+18, LFZ07]. TOP100 [EEK+04]. ToPe [JKM+17]. Topic [GLD17, GC18, ZSL+15, ZLQ+18, HLF+17, TLPS18, ZWW+18]. Topics [Man08, LL13, QLL10]. topographical [HYL+19]. topological [ZQK15]. topologies [dCPD13, PMAL14, PGL+17].
Topography [RH07, KVM+09, BSZ09, CKRO13, HRR+11, NIU17, PS19a, QLLS15, SWL17]. topology-based [NIU17, SWL17]. Tor [HYL15, WWS+12]. tori [AVS+19]. torus [AMVOSGAC17, LGL16a]. torus-based [LGL16a]. Total [CCM+17, TY15].
tour [LLF08]. tourism [GSWJ19, WZT11]. tourist [GSWJ19].
tournaments [RLVRGÁ14]. trace [EJD17, FMT16, MSN+19, CLR18].
trace-driven [FMT16]. traceability [CHX+19]. traces [BH09, CLR18, CDMS15, EJD15]. Tracing [CWM18, MGBK16, MD19, VEJD17]. track [FB16, GYS+17]. trackability [ALYD17]. tracker [LWQS19]. Tracking [ATSAK15, CFV+08, FM08, TL19, CCCW13, DvNM+11a, JyLDZ+18, FWH18, RK15, WBZ10, ZLH+18].
traction [ZGL19]. trade [AAC+15, ANTZ09, DD17, HBKM06, KAL07, XLYL17]. trade-off [AAC+15, DD17, HBKM06, KAL07, XLYL17]. tradeoffs [MJL01]. Trading
Traffic [HLG17, BJC17, FBV+17, GHMX13, IZXM09, KMA04, LZZ17a, LMML10, MR+18, MOK04, MA15, SWLJ17, SSC+16, VO15, WM07, WXY10, WF18, XHD+19, ZFW+17]. trails [KDG+08].

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