A Complete Bibliography of ACM Transactions on Design Automation of Electronic Systems

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Title word cross-reference

1 [AGM01]. 2 [FWCL05, GH00, RL13]. 2.5 [WCB15, WWCT18]. 3
[ADDM+13, AJK+21, CLT+15, DLC+17, JGM14, KK11, KKHK16, KLE18, LLKC13,
LDD+18, LDD+19, LHZ+06, LHC16, LW17, LS19, OS03, OCK19, PRKK21,
PKC+21, SKP21, SYX12, THM15, TMDF10, WYC10, XGC+20, YHH09, ZYS12]. 4
[JCGP05]. dd [MLMM08]. DDX [SW04]. Fmax [PMB10]. gm [LZ21]. GF(2m)
[RMPJ08]. H [CLT+15]. ID [LZ21]. k
[CLH12]. k/m [CHY05]. μ [DHZ+11]. N
[Pom16b, CLH12, Pom17a]. o(min(m, n))
[LM05]. t/t [CH13]. Vr [KOS09].

-Ary [CLH12]. -based [SW04]. -Cubes
[CLH12]. -D [OS03, WYC10]. -Detection
[Pom17a, Pom16b]. -Diagnosability
[CH13]. -distinguishability [AGM01].
-domain [FWCL05]. -driven [MSD06].
-geometry [JCGP05]. -macrocell-based
[CHY05]. -Matrix-Based [CLT+15].

0.35V [ACF+11]. 0.35V-Optimized
[ACF+11].

2-stage [KSA+10]. 2.0
[CLYP09, HWGY16, LLL+18]. 2009 [GK09].
252Kgates [CCC+09a].
252Kgates/4.9Kbytes [CCC+09a].

36 [DHZ+11].
4.9Kbytes [CCC+09a]. 40nm [ACF+11].
45-degree [CT13, TP08]. 45nm [BFL10].

71mW [CCC+09a].

90nm [CFD+16].

A3MAP [JP12]. aberrance [KPSW09].
absence [SPA+03]. Abstraction [HZS+19, CMNQ08, CLM10, HMB98].
LCYN18, PTS+20, SHD17, STGR15, SOS15, TZ17, TZ20, WJYZ11, XAG+20, ZSY18, BC05, DC07, DDNAV04, LON08, LFG+09, LCKT12, LTPR+13, ST99, SCJ01, WV02. Analogy/Mixed [STGR15].

Analog/Mixed-Signal [STGR15].

Analog/RF [BBEM15, PTS+20]. Analyses [BFG17b, YBM+21]. Analysis [BS14b, CZW+03, CLT+15, CB17, CH17, CYH19, CLMZ10, DKZ+15, GD20, GLY+12, HHL14, JIR+21, JM14, KM97, KO08, KC13, LJ18, LDM20, LV14, MAS16, MIA19, NSCM17, OM08, PHKW12, Pi16, PEP06, QBTM16, RRHB21, SMBT19, STWX12, THT12, VTC20, WL12, XTL6, ZY18, ZSY18, BC05, DC07, DDNAV04, LON08, LFG+09, LCKT12, LTPR+13, ST99, SCJ01, WV02]. Analogic [AMM+18, LFST20, YBM+21]. Analyses [BFG17b, YBM+21]. Analysing [LH13].

Android [THC+14].

Anonimous [BD05]. Anomaly [LL19, VTC20]. ant [WGDK07]. anti [HTCP13].

Approximate [GT21, JSS+19, MIA19, NRDB19, OHA19, PMP17, YBM+21]. Approaching [GD20]. Approaches [HMMG+20, KTKO13, LCOM07, Tes02, WAZ09].

approximability [BCC08]. Approximating [GD20].

Architecture [AJK+21, BMDG17, CM20, CIB01, DK16, HLG+15, JP12, LWZ+19, LYL+19, LYLW17, MD13, MSD06, MRL+19, MS17, NGL+21, PTT20, PCT+17, SHBD21, SSL17, WWK+18, WWCT18, YKCG14, YMB15, YLP+13, CHY05, GM03, LCOM07, LTP10, SCCH08, WTL+13, XZC09, YBM+21, ZY+13, RJI+09].

Architecture-aware [JP12].

Architecture-level [CIB01, LTP10, WTL+13]. Architectures [AMM+18, CPS16, GADG19, HWX+14, LM19, LLK+14, RBWB20, VS12a, ACT13, BD08, Cha01, CKAP07, CCL03, DP04, FS13,
FRS97, GBK07, JLCF+10, JLF+12, Kan06, KLS011, LP03, LLK+13, Lycop13, OCRS07, PPD09, QM12, WH05, ZM07, ZHTC09.

Area [EO19, HS18, HCW+16, KKK12, KKLG+15, SY07, SS14, TRM+16, TCL14, Yan16, DK08, GS00, HCS01, KL05, KNK06, LC13, LCL08, MS00, SPM02, SS04, XSE12, ZY+13, ZHTC09].


ARM [LLH+17]. ARM-Based [LLH+17].

ARM2 [HV98]. Array [CFD+16, KCKG16, RBWB20, RB21, SPC+15, AOC02, CZW00, LC13, LCL08, WV02, ZY+13].


assembly [AMR00]. assertion [BZ08, MPDG09, TBZ13]. assertion-based [TBZ13]. assertion-checker [BZ08].

Assertions [MDM+12, WLM21]. Assessed [LLL8]. Assignment [NPH+20, RNR+21].

Assignment [CK16, KLE18, Lycop17, LMS16, SV16, Yan16, Yn17, Yan20, BDB98, CCX06, CHH09, CPW04, CLY09, KNDK96, Kuc03, LJ02, LCC11, LT11, VJBC07, WWG08, WLC09, XTW05, Yan11]. Assisted [CCMC20, GFJ16, HRC21, PTC+15, SMBT19, CSL+07, MB01]. Assistive [MVK18]. Assurance [XLX+18]. Assured [JSS+19].

Asymmetric [SBR+17, RAKK12]. Asynchronous [PMS15, TB20, WWW+12]. At-Speed [PTC+15, TPC+17, SXZV13]. ATM [RFYL98]. ATPG [HCC01, MT02, SGK08].


Automata [BZ08, PSD21, KT01]. Automata-based [BZ08]. Automated [BPTB17, IE12, KLV15, GWR13].

Automatic [BFR15, CK96, CJLZ11, GD20, MS08, SHD17, Shi20, SRTG19, WKR09, ADS+09, KSS+09, LFG+09, TDE08, WWCU04].

Automation [HA05, RSR01]. Automotive [ADB+19, CH10a, CPX14, CO18, DZS+18, GYR19, HHH+11, JDD20, KLSZ09, PSD21, DTC+09, LOC12].

Automotive [KX18, KPB19, LZSSV15, LMS16, MPM+17, SRTG19, XLX+18]. Autonomous [ML09, STL+13]. Auxiliary [BC08, CCQ98, Pie16]. Available [TEK18]. Average [ZLX+15]. Averaging [TWL16]. Avoid [WPR+19]. Avoiding [AL19, HLC+16, LLLL18, WSRH16, XPZ+18, LYK09]. award [GK09, QS11]. Aware [AKAP18, DBB19, BLUS19, CMP10, CET16, CJKK19, DNT20, DZ18, FYCT15, GJ15, HHK+17, HCH17, HCW+16, KPF16, KW16, KBP19, LHH+17, LLL+18, LKH+15, LZSSV15, LNG+16, LMS16, MT15, OT15, PBZM19, RS18, RCK+15, SBY+20, SKP21, SYX12, TBCH17, WSH+18, WLL16, Yan20, YYG+16, ZYPC17, ADP+07, CHH09, CLQ12, DDK07, ETR07, ENP20, F13, GM08, GKM05, JHL02, JDD20, JP12, JCS+08, KPSW09, KJJKK03, LC14, Lsz+21, LZ21, MAS+20, MBD+20, MJN11, MQH07, MKW08, OCK19, PSD21, PPDK09, RGM09, SSG12, SBC08, SMYH07, SKS12, SN12,
TZ20, VGG19, WH05, WPHL08, WLL+11, YYLL09, ZYDP08, ZYP09. awareness [RL13].

B* [WCC03]. B*-trees [WCC03]. back [CCK+18, GABP00]. back-end [GABP00].
Backward [BS14b]. balanced [LLHT12].
Balancing [JIR+21, MT15]. Band [WTR12]. Bandwidth
[KLK+17, BD08, GM03, LLKC13]. bank [CPW04, Kan06, SM00, Wu09]. banked
[OK08]. Base [BSP+19]. Based
[APDC17, ALLE20, ANS+20, ASAP17, AVG19, AJK+21, AAA15, BHK17, BS14a, BD14, CPS16, CCH+15a, CAOM19, CLT+15, CZZYW21, DFC+17, ETAV18, EO19, GNGT21, GDTF17, GHYR19, HCL+14, HWX+14, HLG+15, JHMG18, JPHL16, JM14, KGS+20, KC10, KLK+17, KMO+12, LLH+17, LG18, LDLM20, LS11, LHK+15, LLLL18, LH11, LPY+20, LGGJ14, LCC+15, LKC+18, LPL+21, MNMK+21, MCZ+16, MA16, MCD12, NSP+20, PIK20, PSNC18, PG15, Pom17a, Pom18b, Pom20, FY20, QBTM16, RS18, SV16, SMBT19, STGR15, T217, VEO16, WLZ+19, WCB15, WQC+16, WWCT18, WFSS20, WC10, WL12, XS16, XCF18, YMB15, ZS16, ZHC+18, AAHP08, AM10, ADDM+13, BLM00, BPRR98, BC11, BB00, BOC00, BH10, BZ08, CLM+10, CNQ13, CQG09, CZW00, CFHM09, CH02, CBR+05, CD06, CH05, CFX09, CM13, CCL04, DP02, DCK09, DJP21, DDNAV04, DVA02, EMO03, EY12, FS13]. based
[KG14, GG09, GPH+09, GD20, GBC07, GDF09, GPK+09, GH00, HDZ+20, HYK+20, HCK13, HWCL13, HFBM20, IYF+21, JZG21, JHH21, JLF+12, KB09, KK11, KNRK06, KSA+10, LC13, LB00, LMK04, LWC07, LCC11, LWZ+19, LDK99, LZ21, LCHT02, LOC12, LWK11, LLLC13, LXWC20, LYM+20, MP07, MS21, MLC08, NAK20, OMS08, OHA19, OKC08, OK08, PSD21, PDN00, PRCK08, PMB10, PRO, Pom14b, RL13, RS98, SW04, SGK08, SOC06, SC06, TN99, TBZ13, VGG19, VKT02, WPR+19, WH02, WWCO4, WC06, WSE99, XAG+20, Yan00, Yan08, YYC09, ZHM07, AA17, PBZM19, CCQ08, CH00, MW97, MHT14, MGW97, PBSV+06]. basic
[VMP+00]. Batch [LYL+19]. Battery
[MRL+19, NS+16, Rak09, SKM+16, CSAM07, LCZ+08]. battery-powered
[CSAM07]. Bayesian [BLR06, BTS+20].
BDD [CCQ98, VKT02]. BDD-based
[CCQ98, VT02]. BDDs [BC16]. Beam
[LS17]. Behavior
[CLM10, HX+18, RGT+14, KRS06].
Behavior-Level [CLM10]. Behavioral
[APD+11, AA17, CLMZ10, KHP05, Sch17, TN99, WV02, WHRC12, Fuj05, HLKN07, KSS+09, MRO06, VKK02]. behaviors
[BG01, KW02]. benchmark [PSK08].
Benchmarking [JBC+10]. Benders
[ETA18]. best [G09, QS11, SCS10].
between [Fuj05, YRH11]. Beyond [CPX14].
Biased [JCK+18]. biasing [CFHM09].
BICS [RM09, RMB10]. BIFEST [LTH99].
Bifurcation [HHL14]. Binary
[SV07, BCR+08]. Binding [CT16, K14, LHF12, ZLQ15, BD97, CLM+10, CFX09, DS06, HLKN07, MKK13, MJM11, XK97]. Bio
[BTP+20]. Bio-chemical [BTP+20].
Bio-IP [BTP+20]. Biochemical
[KGS+20, RCK+15]. Biochip [CPK20].
Biochips [GHYR19, JHY21, KGS+20, LHC16, LSC20, LKC+18, MGR+15, MKW21, PBWB21, RCK+15, RBWB20, RB21, SKS+18, SOC06, SC06]. biomedical
[APB+08]. Bipartitioning
[RTNL05, DPB02]. bipolar [ZY+13].
BIST [BB15, JNS+17, LWC07, PKP+03, PGB01, SFG03]. Bit
[HHK+17, LYCP13, NdLCR03, RMP08, RM09, RMB10, SBH+06]. bit-width
[LYCP13, SBH+06]. Bits [SO16].
Bitstream [HYK+20, OK20]. black
[LAS01]. BLAS [CCY14]. Block
[CM19, CCYC14, CCK+18, DK16, ZLG+19, KRS06, LPP00, MHD+04, MS00, WCC03].

Block-level [CCYC14]. block-processing [LPP00]. Blockage [JD18]. Blockchain [IK19, XRS+19]. Blocks [AFM14, JPM+19, DK08, FLWW02, FLWC07, MHD+04, MS00]. BNF [WWC04].

BNF-based [WWC04]. Board [MW97]. Board-level [MW97]. Boards [GDTF17, BPRR98, OW06]. body [CFHM09]. body-biasing [CFHM09].

BonnRoute [GMN+13]. Boolean [PRCK08, BR12, BD97, CCQ98, GPK+09, OK20, SGJ96]. Boosting [CMNQ08, XAG+20]. borrowing [LCHT02].


BSP [SYHL14]. BTI [GC18]. BTI-Aging [GC18]. bubble [Yan00].

bubble-sorting-based [Yan00]. Budgeting [CXH+16, STGR15, HLHT08, LCHT02].

Budgeting-Based [STGR15]. Buffer [LYLW17, MB04, SAL19, TCL14, WHRC12, CW01, FFHG12, JHL02, LLHT12, LT11, XTW05]. Buffered [OCK19, Yan16, CM08]. buffering [KRS06, KC13]. Buffers [CK16].

Building [JDD20]. Buildings [ZHC+18].


C [LWC18, RMPJ08]. C-Mine [LWC18]. C-testable [RMPJ08]. C2RTL [ZLL+16].

Cache [BFG+19, CPS16, CAOM19, DPJ21, GG04, HWX+14, JZY15, JKL15, LYLW17, MACV14, Mf16, NTSA18, NAK20, SSS+19, SABA15, SMBT19, SAL19, TYSF20, WL1D17, YPCF17, Giv06, JS13, LMW99, LSL+13, PND97, SLXZ12, TKVN07, TY97, VS12h, ZYP08, NTSA18].

cache-coherence-enabled [LSL+13].

Cacheline [PBL+17]. Caches [CK19, CB17, SYX12, CXX+13, LSDV10, ZP08]. Caching [WQC+16, HCK13].

CAD [BSF+19, HAW20, KLSZ09, KLSZ11, LYM+20, NPH+20, NSP+20, SB98, Vah02].

CAD-Base [BSF+19]. calculation [RCD07]. Calibration [CCMC20, PMB10].

Call [ANO13, CH10a, Pcl11, KLSZ09].

CALM [ZYP17]. Cameras [YMB15].

Camouflaging [IK21]. CAN [LMS16].

Cancellation [LYYW12, FRR+97]. Cap [HC17]. Capability [EW18b]. Capacitance [XLS15].

capacitive [LXCO4]. Capacitor [HWCL15, HWCL13]. Capacitors [SKC18].

Capture [PTC+15, XCW12]. Carbon [WSH+18].

Carbon-Nanotube [WSH+18].

Care [TFC+17]. cares [CBMM10, SGK08].

Carlo [GLY+12]. Carrying [IPW17].

CASCA [DZS+18]. Cascade [YYL+15].

Case [APDC17, CH17, LLP+16, LYM+20, RPR+21].

Cases [LWC18, KFR+08].

caused [SHLL19]. Cayley [CCH15b]. CCM [TWL16].

CDTA [YFT17]. Cell [ACF+11, CZZY12, DBK+18, JZY15, KRL15, TRM+16, WPR+19, WC10, XNZ+15, JCS+08, KBN09, LCZ+08, MRB+11, MS00, RS03, SSS+10, DW97].

Cell-based [WPR+19]. Cells [HWGY16, JCK+18, MJB19, SKM+16, H900, TS96].
clusters [OWH08], CMAPS [Hsi00],
CMOS [ACF+11, ADB+19, CFD+16, GH00, LTH99, PHKW12, WSS+18], CMP [CKX+13, WGH16], CMPs [CAOM19, SYX12], CNN [LYM+20].
CNN-based [LYM+20]. CNNs [PHKK21].
Co [CVMP19, Hua01, JSS+19, SKM+16, WWFT12]. Co-Simulation [SKM+16, WWFT12, CVMP19].
Co-synthesis [Hua01]. Co-Training [JSS+19].
coarse [KLSP11]. coarse-grained [KLSP11].
cocurrent [KI01].
Code [AMR00, AM98, CL99a, FHHR21, MLH+17, TY97, BH10, DHV+00, KMS12, KNDK96, KH10, LP03, LB00, LKT98, LDK99, OKC08, SR12, SM00, VMP+00, VLGG01].
Code-Injection [MLH+17]. code-motion [DHV+00].
Codes [RM09, WHXZ13].
Codesign [BM11, CMM00, FIR+97, GABP00, GGB97, HCL+07, SCV06].
Coding [WZL+21]. Coefficient [APDC17].
Coexistent [BDBB19]. Coffeee [RJL+09].
Cognition [HXC+18]. Coherence [HZX+14, LSL+13, ZYDP08].
Collection [GSD+18, HCL+14, ZLW+15].
Collection-Induced [GSD+18]. colony [WGDK07].
Coloring [ZLY+15, CML08].
Combinational [CD96, LD17, EM03, KT96, KOS09, PR98, RJBS09, TN99].
Combinatorial [AM05, VLI04].
Combining [ETAV18, LFST21, SPG+08].
CoMETC [ANR13]. commercial [MPDG09]. Common [DHB16, LWC18, WLLH16, ZY+13, HWCL13].
Common-Centroid [WLLH16].
common-centroid-based [HWCL13].
Common-source-line [ZY+13].
Communication [CARH18, KFP16, SRTG19, YP10, ADS+09, GBK07, GGG99, LCOM07, MOZ06, PPDK09, PBSD+06, ZM07]. Compact [LJ18, MAS16, WTR12, XCW12, HVF+01, YHL07].
Compacting [PL03]. Compaction [Pom15a, Pom15b, Pом20, EMO03, MHD+04, TBZ13, XLCL13].
Comparative [MLG12, PB14]. Comparing [VGG19].
Comparisons [PKC+21]. compatible [SGK08, WWC04]. compensation [CFHM09].
Compilation [SFM+19, YHL07, KLSP11, MSR09, VLGG01]. Compile [KNRK06].
Compile-time [KNRK06]. compiled [PHM00]. Compiler [LHS20, LPD+17, LLHT03, SMBT19, SYHL14, WKL+18, XPSE12, BD08, GGDN04, HG07, KRS06, SSG12]. Compiler-Assisted [SMBT19].
compiler-directed [HG07].
Compiler-in-the-loop [XPSE12]. Compilers [YLL06]. Compiling [Edw03].
Complementary [QSW+15].
Complementation [Pom15a]. Complete [PDS12, AG01]. complete- [AG01].
completeness [LLYW10]. Complex [WTR12, YH08]. Complex-Valued [WTR12]. Complexity [ASAP17, AL19, LTYY12, WYC10, BCC08, YCCG03].
Compliance [HC18, BGM04]. Component [HL14, PG15, SR01]. Component-Based [PG15]. Component-Composition [HL14].
Composable [VGG19, WTW+13, HGB09].
Composition [HL14]. Compositions [NSCM17]. compound [FLWC07].
Comprehensive [GSFT16, JNS+17, YFT17, ZBP18].
Compress [XCW12]. Compressed [PBL+17]. Compression [BLNK14, EK16, BH10, JCS+08, LCT03, LDK99, NT05, OKC08].
CoMPSoc [HGB09].
Computation [BFG17a, CV17, CARH18, KCKG16, MOZ06, Pom17a, BLM00, GMSS02, HLCH07, HW00, KAG05, WYG07, YH97].
Computational [BCC08]. Computations [ENP20, ARLJ06, LPP00, PGB01].
Compute [LPL+21, TCP97].
Compute-in-Memory-Based [LPL+21].
Computer [MFHP12, CSL+07, MBB01].
computer-assisted [CSL+07, MBB01].
Computing [BMG17, CDB11, JSS+19, MHA19, NRDB19, SN10, WHL20, XGC+20, YBM+21, CLQ12, LC96, NR01].
Concept [AM10].
Concept-based [AM10].
Concurrency [SSG12, Sen11].
Concurrency-aware [SSG12].
Concurrency-oriented [Sen11].
Concurrent [SOC06, WH20, Edw03, EY12, HCL98, LC13, RBA+12].
Conditional [CLH12, CH15b, KW02].
Conditionally [CSC+21].
conditions [HN07, YH97].
Confidence [JT98].
Configurable [LSPC14, BD08, LCD07, SPG+08].
Configurations [HABS15, BHS11].
Conflict [GSD+18].
Congestion [RGM15, SYL09, SAHF+20, YWK+03, LCJ+10, RL13].
Congestion-Free [RGM15].
connection [Yan11].
connections [YCCG03].
conquer [HPK99, SW12].
Conscious [LLP+16].
Consecutive [Yan17].
Consideration [JD18, LYLW17].
considered [HN07].
Considering [BHLG19, CCK+18, GC18, JOH17, WCCCC14, KPR06, LH13, LTP13].
Consistency [YP10].
Consolidated [HC17].
Constant [CHC+16, GYT12].
Constant-Cost [CHC+16].
Constrained [LLM01, LLLL18, Yan18, BG01, GOC02, LSDV10, MMP00, NG06, NR01, OK08, SCB01, WG11, WHL20, WLC09, XPX+21, YWW10, ZHOM08].
Constraint [KKK12, MRM08, RS18, VMP+00, YRH11, Das09, PR96, TP08].
Constraint-Based [RS18].
Constraint-driven [MRM08].
Constraints [CLC20, DBK+18, Kuc03, MN17, Pom16a, Yan17, BD05, CSAHR07, Hua01, QS09, SSP04, wATK02, VLH98, WWG08, ZAZ13, ZW98].
Constraints-driven [Kuc03].
Constructing [DSRV02, JZY15].
Construction [EK16, HGLC16, LLLL18, CM08, LH09, LYK09, Yan08, ZCG06].
Consumption [FG18, Kan06, TKVN07].
Contact [YLZ+17].
Contact-Hole [YLZ+17].
Containing [WWW+12, LAS01].
Content [HHK+17, RB19, MLC08].
Content-Aware [HHK+17].
content-based [MLC08].
Contention [DJP21, KLL14, ZYPC17].
Contention-Aware [ZYP17].
Context [RG19, BDC08, JHL02].
context-aware [JHL02].
context-triggered [BDC08].
Context-Varying [RG19].
Contiguous [KKLG15].
Control [AVG19, BDB12, FHHR21, GDD21, JDD20, JK10, MAS+20, PIK20, PCT+17, QSW+15, VGG19, ADDM+13, BMJ13, CXX+13, CR12, FR97, KSA+10, MGG97, OM08, SHLL98, ZAJ+12].
control-dominated [FR97, MGG97].
Control-Flow [FHHR21].
Controlled [TRM+16, DL11].
Controller [KMR18, SSL17, GF06, HMLL11, LC14].
Controllers [LV16, PDS12, BDM+99, Fu05, NCP01].
Controlling [KYL16].
controls [YHL07].
conversion [ZLL13].
Converter [SGGR14, ADS+09].
Converters [SBB+18, TWL16, WGT17, JR97].
Convolutional [MMN+21, NGL+21].
cooling [ANR13].
Cooperative [LHF12].
coopimization [ZLL13].
Coordinated [ANR13, DJP21, GGD04].
COPE [DJP21].
coprocessor [GDTG07].
coprocessors [SCV06].
Core [CAOM19, CYH19, ETAI18, LHL+16, SBY+20, SESN15, WMT+16, WDLX21, CCL04, LBV+06, RAK12, SEN05, SZV+12, XZC09].
core-based [CCL04].
core-external [XZC09].
Cores [SFM+19, WGGH16, G04, L02, SS13, XZC09].
CoreSight [LLH+17].
Corner [KQP+19, MHD+04, MCH08].
correct [ADS+09].
Correcting [PGCB16].

D [GH00, WCB15, ADDM+13, AJK+21, CLT+15, DLC+17, JGM14, KK11, KKH16, KLE18, LKGC13, LDD+18, LDD+19, LHZ+06, LHC16, LW17, LS19, LS17, OS03, OCK19, PRKK21, PKC+21, RL13, SKP21, SYX12, TM15, TMDF10, WYC10, WWCT18, XG+20, YHI09, ZYS12]. D-enabled [LDD+19]. D-ICs [LS17]. D-NoC [ADDM+13]. D-Stacked [SYX12]. DAG [WJG+19]. daisy [KC13]. daisy-chained [KC13]. Dark [HAB+17]. DARP [CRC15]. DARP-MP [CRC15]. Data [CPS16, CCMC20, DZCD15, JLLK15, KW16, LWC18, LL19, NTS18, OHA19, PCD+01, Pom16c, PAV17, PA21, SPC+15, SUC01, TYSF20, VTC20, XCW12, XPZ+18, BHW+13, BK00, BWW14, BHS11, FWCL05, GFC+09, GMN+13, GDF09, IBMD07, JCS+08, KMS12, KI01, KA04, LSPC14, LCT03, Mhe98, NR03, PNM07, PNM00, PGB01, RMK03, SM00, VCLD03, YGZ04]. data-dominant [VCLD03]. Data-Driven [DZCD15, LL19]. data-flow-driven [KMS12]. Databases [HCL+14]. Dataflow [ASAP17, BMG17, BLUS19, BFG17b, BFG17a, CH17, HPB11, JHJ21, JOH17, LFST21, SFM+19, SS14, HKB+07, MHF96, MB04]. Datapath [JR97, PI20, CLR99b, GDTG07, MR05, XPSE12]. datapaths [Fui05, G07, G09, NCP01]. DC [CDF+16, SBB+18, TWL16, WGT+17]. DC-DC [WGT+17]. DCM [TWL16]. DCW [WLZ+19]. Deadlines [ENP20, WJG+19]. deadlock [LM05, TED08]. deadspace [S07]. Debug [EW18b, LHL16, HW14]. Debugging
Decade [XFJ+16]. decap [LCL08]. decode [TKV07]. decoder [CCC+09a]. decoders [KHW06]. Decomposition [ETAV18, GBR07, HCW+16, KHW06, LZ17, RFG20, YLZ+17, ZLY+15, CHHL96, CH00, EMO03, LM96, WSEA99].

decomposition-based [EMO03].


Design [ADB+19, ABC+17, AFM14, BJX15, BS14a, BZW17, BS14c, BHLG19, CK19, CD09, CH10a, CH10b, CPX14, CHC+16, CSC+21, CRC15, CO18, DZS+18, DNT20, DHB16, EAP17, GdRJM21, GCZ+15, GHYR19, HCRK11, HMMG+20, HLG+15, HHH+21, ISK21, JWL+03, JLK15, KKLP15, KGS+20, KLSZ09, KLSZ11, KLV15, KKS16, LLP+16, LW17, LF12, LHK+15, LZZSV15, LPL+21, OT15, OHA19, PSDK21, PMT20, PKC+21, PDS12, Pom14a, Pom16a, Pom18a, RFG20, RS18, SMBT19, Sch17, SYB+20, Shi20, SDP+09, SGGR14, SHB12, SHN12, SGNN15, SYX12, STGR15, TYSF20, TCL14, VGG19, VA17a, VEO16, WWCT18, WPR+19, WSS+18, XPS+21, XLS15, XNZ+15, YPCF17, YD16, ZLG+19, ZYS12, ACT13, AHW+08, ABP+08, AMM+06, ADP+07, BC05, BW00, BFP08, BAS01, CWW96, CIB01, CSL+07, DCRG98, DTC+09, EK97, FLW02, FLWC07, FW00, FRS97, GPH+09, GM03, GABP00, HV07].

design [HA05, HJ08, HLC17, JB98, JP08, KSS+09, KK99, KAC04, LC13, LSL+13, LFQ+09, LCO08, MB01, MP07, MLG12, OCRS07, PB14, Ped96, Ped06, PBSV+06, PW99, RFY198, RS98, SW12, SGD10, SYL09, SSS01, SUC01, SS11, SZV+12, TW96, THL+13, VAAH+98, Voe01, WA98, WKR09, ZHM07].

Design-for-manufacturability [WPR+19]. Design-for-Testability [Pom16a, Pom18a, Pom14a].

design-specific [ACT13]. Designed [KMO+12, SPT+17]. Designer [SS11].

Designing [BLN14, DZS+18, HBC+08].

Designs [EK16, GD20, MACV14, PHK12, WWW+12, YVC14, Yan16, Yan17, ZK15, CH00, GM08, GOC02, HMB98, KI01, KK11, KHW06, LHW97, LCTH02, LLHT12, LAS01, LCKT12, MS00, MR06, RMKP03, Sen11, SSCS10, SNL12, WTL+13, Yan11, ZMTC13].


Detection [CBO+18, HDZ+20, KO018, LXWC20, LYM+20, LL19, LM21, Pom16b, Pom17a,
VTC20, WH20, YFT17, ZHC+18, CR12, DHZ+11, FNP09, KI01, KRK98, KSA+10, LM05, PR07, RM09, SCCH08, TDE08.


During dual-Vdd [HLHT08]. [BLNK14]. dual-scanline [CT13].
dual-Vdd [HLHT08]. duplication [CC06, WY06]. During [TPC+17, EW18b, HR06, MRC06, PTC+15, RGM09, XPSE12, YWK+03, YWW+00, ZMTC13]. duty [JSG09]. duty-cycled [JSG09]. DVFS [CKX+13]. Dynamic [ADDM+13, BMJ13, BLJS19, BHS11, HKL+15, HRP00, IA+09, LH+17, LV+14, MNK+21, MDR15, ORGD+15, PBL+17, RMA+21, SKP21, SV11, WMT+16, WGS+16, WZL+21, XPS+21, AHAKP08, ADM+13, AMM+06, BRL06, CMNQ08, GK14, GPH+09, KJT04, KSA+10, LTPT10, LLHT12, MR05, VJBC07, KMR18].

Dynamically [CRC15, JPHL16, Pom18a, LLHT12, MR05, VJBC07, KMR18].

Dynamically [CRC15, JPHL16, Pom18a, RNR+21, ARLJH06, WLC02, YLL09].

Edited by: [Alno13, Hu20]. Editor-in-Chief [Alno13, Hu20]. Editorial

[CH10b, CPX14, Dut05, Dut06, Dut07, Dut08c, Dut08a, Dut08b, Hu20, Ir00, MD13, Ped08, TK18, SJ02, Mar00]. Effect [LHW+17, NSS+16, WCCCI4, WSH+18, WSRH16, LTH99]. Effective [DS06, JPHL16, LCJ+10, LTW+16, LCL08, NAK20, PCT+17, XLY+18, VYC14, YLZ+17, LPP00, LSPC14, MHT14, SBC08, WSV+14, XLC13].

Effectiveness [WAZ98].

Effects [BDB98, BFL10, GC18, JIR+21, MRB+11, RJB09]. Efficiency [KKLG15, LWC18, RB19, TCL14, WH19, KJT04, ZAZ13]. Efficient [AKAP18, BS14a, BHDS09, BW00, CK19, CAOM19, CYV+14, DMR10, EO19, GADG19, GT21, GFJ16, HM08, HAB+17, HKB+07, HSC01, HMM+20, HG07, HWX+14, JSS+19, JLH15, KBN09, KC10, KW02, LHLP16, LJ18, LDD+18, LHZ+06, LWZ+19, LZ21, LF12, LHCT05, LM06, LB11, MWS+20, MNK+21, MW21, NTSA18, PMP17, RM09, RGM15, SV16, SMBT19, SPC+15, SPSM02, SS14, SRC15, TLCF16, TYSF20, VNS19, WKL+18, WJY+07, WWFT12, YPC17, YCH10, ZY10, ZY1+13, Zho08].

Efficiently [RCG+08, TY19, ADM+13]. Eh [DKT+16, DBK+18]. Elastic [LYL+19, SZB17]. Electric [VA17b].

Electrical [BLHGI9]. Electrode [RBWB20]. Electromagnetic [JIR+21, WFSS20]. Electromigration [DNT20]. Electron [HCW+16]. Electronic [CH10a, HH1+21, KLS09, HV07].

Electronics [BSP+19, CPX14, XRS+19, CH10a].

Electrostatic [LDD+19]. Electrostatics [LCC+15].

Electrostatics-Based [LCC+15]. Element [CLT+15, ZK15].

Elements [HMG13]. eliminate [Mut09].

Eliminating [SHL+98]. Elimination [LHF12]. Elite [ZKS+16]. Embedded [BMD17, BDN1, BS4c, BM11, DFM15, EAP17, GAT+21, HCL+14, IK19, IGN8, JH19, KC10, LL15, LHL16, LH+15, LL19, NSH+16, OAH19, PG15, RFG20, SPT+17, SL18, VBP+19, WHRC12, XPS+18, XPS+21, YP10, AM10, BPRR98, BH10, CSAH07, CMM00, CSL+07, CM13, DCK07, DCK9, DRG98, GDTG07, GPH+09, GG04, GABP00, HKL+07, HV07, HCK13, IA+09, JS13, KNDK96, LJV02, LCZ+08, LSDV10, LB00, LW09, LD09, LMK19].

[102x622]
NRDB19, VGG19]. **EXFI** [BPRR98].

exhaustive [CMB07]. Expansion [MS17].

**experiment** [FIR+97]. **Experimental** [Das04, AYM05]. **Experiments** [LHK+15, BCC08, CIB01]. **Experts** [TEK18]. **Explaining** [YYL+15]. **explicit** [EK07]. **exploitation** [GFC+09].

**Exploiting** [GSD+18, JLK15, OT15, WKC12, WHXZ13, DRV02, FW00, Kan06].

**Exploration** [HMMG+20, LLLL18, MA16, RFG20, RS18, Sch17, APB+08, CSL+07, EK97, JP08, KSS+09, LCOM07, MBB01, MSD06, PB14, PPDK09, RJI+09, SW12, SU01, VCLD03, XPSE12]. **Exploring** [CK19, TLCF16, WDGD07, YPCF17].

**Exponential** [APS18]. **Express** [JSA18].

**expressions** [SGJ96]. **Extended** [WWFT12, CK96, YTHC97]. **Extensibility** [SGC+14].

**Extensible** [KAKSP16, MP07].

**Extension** [LF12]. **extensions** [WKR09].

**extensive** [CBMM10]. **External** [KG09, CBMM10, XZC09]. **Extra** [CVMP19, KAKSP16]. **Extra-Functional** [CVMP19]. **Extraction** [HDZ+20].

**Extreme** [Pom15b].

**fabric** [MSB+09]. **fabrication** [WLT08].

**factorization** [BOC00]. **Factory** [DZCD15].

**FACTS** [VMP+00]. **Fail** [PAV17, PA21, BWW14]. **Failure** [XNZ+15].

**Failures** [YXL+15]. **False** [AKAKP18, AL19, GGBZ02, SHLL98].

**False-noise** [GGBZ02]. **family** [BD05]. **fan** [LH09]. **fan-out** [LH09]. **Fast** [CPW04, DK16, DNT20, GdRM21, GLY+12, HGLC16, IHM15, JZYZ15, KKLG15, LH11, SMBT19, SGD10, STWX12, Tes02, TZ17, CCW08, GNM+13, GBC07, JHL02, KT96, LC14, LCTK12, NR01, SBDG13, SGJ96, YTHC97, LCC+15, OS03, QSK12].

**FastCFI** [FHHR21]. **fastest** [Das04]. **Fault** [CYH19, EKS+14, GT21, GVJ15, IYF+21, JIR+21, JPM+19, LW17, LW21, LXWC20, NGL+21, RRHB21, XCF18, YYL+15, BPRR98, BH03, CEB06, DNA+12, HH09, JLF+12, LTH99, LLQ+03, SC06, TCP97, TD03].

**Fault-Aware** [GJ15]. **Fault-based** [IYF+21]. **Fault-Induced** [RRHB21].

**Fault-Tolerant** [CYH19, GT21, LW17, XCF18, NGL+21, SC06]. **FaultDroid** [RRHB21].

**Fauls** [BDBB19, MCD12, Pom17b, Pom20, Pom21b, ZHC+21, HVF+01, LTH99, LIA00, MT02, PT06, PR98, PR09, TYH08, XZC09].

**Faulty** [JCK+18, JPM+19]. **Feature** [HDZ+20, VTC20]. **Features** [LL19].

**featuring** [EK07]. **Feed** [LHS20].

**Feed-forward** [LHS20]. **feedback** [LWK11].

**fetches** [KTK013]. **FFT** [HDZ+20, TMDF10]. **FFT-based** [HDZ+20]. **FH** [HGLC16]. **FH-OAOS** [HGLC16].

**Fidelity** [WFS20]. **Field** [WSH+18, CH02, CD96, PWY05, WV02].

**field-programmable** [CH02, PWY05].

**FIFO** [BK00, ZLL+16]. **File** [TLCF16, CFX09, GF10, ZYP09].

**Files** [WKL+18]. **Fill** [LTW+16, LIA00].

**Filling** [TPC+17]. **Filter** [EO19, PCT+17, FS13, TKVN07].

**filtering** [CL13, ZYPD08]. **Filters** [RB19]. **finding** [KL05]. **Fine** [LG18]. **Fine-Grain** [LG18].

**Fine-grained** [LPY+20]. **FinFET** [WLLH16].

**Finite** [CLT+15, SRC15, CK96, CHIL96, GK07, GK09].

**Finite-Element-Based** [CLT+15].

**Finite-Point** [SRC15]. **Firmware** [KC10, RTG+14]. **first** [MR96].

**first-time-right** [MR96]. **Fixed** [ALL17, WDZG16, AM98, CPW04, LCT03, MHQ07].

**fixed-length** [LCT03]. **Fixed-Point** [ALL17, AM98, CPW04].

**Fixed-Priority** [WDZG16, MHQ07]. **Fixing** [LSZ+21].

**Flash** [CCK+18, HCL+14, KC10, MWS+20, PPP+15, WQC+16, WL12, WLZ+21, ZLW+15, HCK13, JCS+08, Wu09].

**Flash-Based** [HCL+14, KC10].

**flash-memory** [Wu09]. **Flattened** [ZYP17]. **Flexible** [BHK17, IGN18].
LKC +18, RS18, CL99b, MS00. **FlexRay** [SGC +14]

Flip
[HS18, KMO +12, LW21, XCW12, Yan16, KOS09, KSA +10, LLLC13, Yan11, ZMTC13].

Flip-Chip [Yan16, Yan11, ZMTC13].

Flip-Flop [KMO +12, LW21, XCW12, Yan11, ZMTC13].

Flip-Flops [HS18, KOS09, KSA +10].

Floating [BS14a, SKCM06, WG11].

Floating-point [WG11].

Floorplan [KQP +19, YVC14, YCCG03, HCS01, LCL08, MRMP08, SY07].

Floorplan-Guided [YVC14].

Floorplanning [HCRK11, HCZ +16, KLE18, HMLL11, LHZ +06, LCC11, LLM01, SYZ08, WLCJ09, YC07, YC09]. floorplanning-based [LCC11]. floorplans [DSK01, MSKB07, MS00, WYC10]. Flop [KMO +12, LW21, XCW12, LLLC13]. Flops [HS18, KOS09, KSA +10].

Flow [FHHR21, HMO +14, IGN18, KGS +20].

Flow-Based [KGS +20]. Flows [JLJ15, VGG19].

Fluid [GHYR19]. Fluids [KGS +20, RCK +15].

Flux [LSZ +21]. FOLD [Pom15b]. Folded [AFM14, HS18]. Folding [Pom15b, BHS11, TS96]. footprint [AMM +06].

Forced [RSR01]. form [CW01, PR09, Shi20].

Formal [Ali12, BGM04, EW18a, KMS12, KG09, SSS +19, SGGGR14, VS12a, ADS +09, CMM00, MR96, RFY/L98, SMSB05, VS12b, Zhou08].

Formally [KRH18]. formats [AMR00].

Forming [PR07]. FORTIS [GSFT16].

Forward [GSFT16, GS00, LHS20].

Foundation [TB20]. Four [HGLC16].

Four-Step [HGLC16]. Fourier [LCC +15].

FPGA
[AMM +18, ACT13, ALLE20, BS14c, BHS11, CWW96, CWZ +03, CH00, DP02, EW18b, FW00, FHHR21, GPK +09, GVJ15, HABS15, HYK +20, HLHT08, HW14, JLF +12, KT96, KL05, KFH +08, LKM04, LLL +18, LM19, LZA +21, MW97, MA16, MP07, MS21, OK20, PSD21, PL98, PHT07, PSNC18, PY20, SAHF +20, TW96, ZLQ15, ZHTC09].

FPGA-based
[WM97, ALLE20, PSNC18, DP02, GPK +09].

FPGA/FPIC [CWZ +03].

FPGAs [CWZ00, CE06, CHY05, DVMG21, GD +08, KNR06, LB11, MCZ +16, MLMM08, SPMS02, Tes02, VKT02, WLG11, WLC02, WSEA99, YGH +10, YPLL09].

FPIC [CWZ +03].

Framework [CSC +21, DK16, GDFT17, HRC21, JHH21, JSS +19, JPHL16, KPB19, LL15, MDB +20, NPH +20, RG19, RB21, SKM +16, THT12, WLZ +19, WWFT12, XP +21, YP10, ZLL +16, ADP +07, HR06, HV07, KJS +08, KH01, MPSJ07, MP07, RPCK05, SB98, SBH +06, SS11, ZM07].

Free [RGM15, SBB +18, BLR06].

frequencies [PL03].

Frequency
[GC18, JPHL16, WTR12, WGEH16, GM08, JDT +08, LTPR +13, ML09]. frequencies [LTPR +13].

Frequent [YGZ04].

FSM [AGM01].

FSMs [CK16].

FTT [GGL +21].

FTT-NAS [GGL +21].

Full [STWX12, HDL +12].

Full-Chip [STWX12].

fully [FW00].

Function [CSC +21].

Functional [CVM19, DCK07, FRG97, PR09, Pom15b, Pom15c, Pom16a, Pom16c, Pom18a, Pom18b, Pom19a, Pom21a, VLH98, WSEA99, XLY +18, CMB07, CK96, LOC12, MT02, Pom13, Pom14b, Vah99].

Functionality [BFV15, HLCH07].

functionality-directed [HLCH07].

functions [BC11, CCQ98, TW96].

Fundamental [SB +20, XMTB17, Voe01].

FUNI [LIA00].

Future
[HAB +17, KBV +15, ZZCY17].

FuzzRoute [RGM15].

GALS [SS11].

GALS-Designer [SS11].

game [HR06, RJI +09].

game-theoretic
Garbage
[HR06], [GSD+18, HCL+14, ZLW+15]. Gate
[CM19, CDB11, Che97, HMO+14, KKS16, LGGJ14, SV16, SRC15, VTC20, CCW08, CH02, CD96, CH00, HH09, LG12, LLYW10, PWY05, RGM09, SC00, WY06].
Gate-Level
[CDB11, HMO+14, VTC20, CM19, Che96].
gated
[CM08]. Gates
[WSS+18, KOS09].
Gateway
[HXC+18, JSG09].
Gating
[CMP10, CLMZ10, KKHK16, WKC12, XLS15, BDM+99, ETR07, HTCP13, KBN09, SSCS10, YHL07].
Gaussian
[ZYW+18].
GBDD
[YTHC97]. General
[CH02, wATkK02]. Generalized
[Pom15c, DS06]. Generated
[MFS09, MN17, PKJK20, KT01]. Generation
[BKW15, BFV15, CYV+14, IE12, LCY12, LV14, LCYN18, MFHP12, MCD12, NPH+20, PCT+17, Pom17a, Pom17b, Pom18b, SHD17, Shi20, STJG16, SOS15, WLM21, WWW+12, YLZ+17, YD16, AM98, CK96, Che96, CL99a, CCW08, GF06, HRP00, KKM02, KJR+07, KNDK96, KH10, LTH99, LP03, LKTD08, MMP00, MSD06, MD08, PR98, PR07, Pom13, QM12, SR12, SNL12, SM00, TB213, VMP+00, dW97].
generator
[BCR+08, WWC04]. generic
[FLWW02, FLWC07]. Genetic
[MA16]. Genetic-Algorithm-Based
[MA16]. Geometric
[CM18, WJYZ11]. geometry
[JCGP05]. Global
[AOC02, BM11, RGM15, WSH+18, CLYP09, DH+00, SPA+03, ZHTC09].
Global/Local
[BM11].
Guided
[GWY03, DLR03]. Guest
[CH10b, Mar00, SJ02]. Guidance
[ZKS+16].
Guided
[YVC14, RNR+21].
Guiding
[WPR+19].

Hamming
[HRK18]. Handling
[DH06, GdRJM21]. Hard
[CHBK15, WDZG16, PW99, QS09].
hard/soft
[QS09].
Hardened
[BS14c]. hardness
[WYC10]. Hardware
[ANS+20, BS14a, BM11, CMM00, DZS+18, GFJ16, GQW19, IPWW17, KTKO13, LG18, LHF12, LF12, LPL+21, MRL+20, MFHP12, MRL+19, RB19, TY19, VTC20, XFY+16, YSF+18, YCL+20, YBM+21, YG+10, ZLG+19, AM005, BHDS09, BGM04, FNP09, GGB97, GPK+09, HKL+07, HBC+08, JW08, KSK+05, KG99, LP07, LVL03, MSB+09, MLC08, ML09, RHA08, SGL12].
Hardware-accelerated
[RB19, MLC08].
Hardware-Assisted
[GFJ16]. Hardware-Based
[BS14a]. Hardware-Efficient
[ZLG+19]. Hardware-Enabled
[YSF+18]. Hardware-Software
[BM11, GGB97, HKL+07, LVL03].
Introducing [PGB01]. Introduction
[BC08, BJX15, CO18, CLQ12, Har05, HAW20, HJ08, JW08, LP07, Ped06, RW03, RBA+12]. Introspection [K101]. Intrusive
[LL15, SL18]. Invariant [Pom18b, PL03].
Invariants [IPWW17]. Inversion
[LHW+17]. Inversion-Aware [LHW+17]. inverted [DH06]. Inverter [VEO16].
Investigating [RB19]. Investigation
[XLB17]. IO [Yan11]. IoT [CCMC20, CARH18, XLB17, YFT17, YFT18]. IP
[BTP+20, BFV15, ISK21, JHMGS18, SLP+19, SSGS03]. IP-Integration
[JHMGS18]. IPs
[GSFT16, LLH+17, LG18, Sch17, VBP+19]. Irregular
[KCKG16, KCKG13]. ISAs
[SBH+06]. Ising [MS21]. Ising-FPGA
[MS21]. Island [LCY12, GM08]. Islands
[JPHL16]. Isolation [CCS15]. Issue
[BJX15, HAW20, TK18, BC08, LP07, Ped06]. Ped01]. Iterative
[CZZYW21]. Iterative
[KLV15, Yan20, DD02]. iTimerM
[LJ18].

JAMS [KB19]. JAMS-SG [KB19]. Java
Jitter-Aware [KB19]. Joint [BC08]. Jointly
[CCK+18, GY12, ZLW+15]. Journal
[SN10]. JPEG2000 [GFC+09].

kEP [BCC08]. kEP-SOPs [BCC08]. kernel
[WKR09]. Kernels [MLH+17]. Key
[ISK21, JZG21]. Key-based [JZG21].
Key-Obfuscated [ISK21]. knapsack
[SBGD13]. Knowledge [EO19].
Knowledge- [EO19].

L [LM06, Meh98]. L-shaped [Meh98].
L-shapes [LM06]. L0 [KJR+07]. L2
[SYX12, TYSF20]. Lab [PGCB16].
Lab-on-Chip [PGCB16]. Lagrangian
[LGGJ14, PY20]. language
[MSD06, MLC08, PHM00, RH00].
languages [BGM04, Edw03, SSG12]. Large
[CK19, CSX+05, DNT20, JZY15, LYL+19, YVC14, ZHC+21, AM10, DD02, HH09, MRB+11, SCB01]. Large-Scale
[LYL+19, YVC14, CSX+05]. Last
[KLJ14, SABS15, SAL19, CK+13].
Last-Level [KLJ14, SABS15, SAL19].
Latch [JNC19, LC19]. latch-based
[LC19]. late [LG12]. Latencies [Sch17].
Latency [QBTM16, YKC14, ZYPC17, PMT20, WHXZ13]. Latency-Minimal
[ZYPC17]. Latices [GSS+14, HMO+14].
Launch [Pom21b, P+15, WW+12, XW12, WPHL08]. launch-off-shift
[WPHL08]. Launch-on-Capture [XW12].

Launch-On-Shift
[P+15, Pom21b, WW+12]. Launch-to-Capture [P+15]. Layer
[LYCP17, MWS+20, ML12, Yan17, Yan20, CLYP09, DDNAV04, OW06, Yan00, Yan19].
Layout [CZD+17, DZ18, LZ17, LCY18, RCK+15, SPC+15, T20, WPHL08, WPR+19, XK97, YLZ+17, ZLY+15, GS00, GH00, KG09, WYZ11]. Layout-Aware
[RCK+15, WPHL08]. Layout-driven
[XK97]. layouts [GFC+09, LM06]. Lazy
[MLW+15, ZLY+15]. Lazy-RTGC
[MLW+15]. LNoC [PMT20]. LDE [T20].
LDE-aware [T20]. LDEs [SCK18]. leaf
[WD97]. Leak [P+17]. Leakage
[CFHM09, DHB16, HYN15, JK10, PIK20, RRHB21, STW12, SYHL14, SKP21, XT16, YLYL09, ZPF18, CS07, CCM08, KOS09, MLG12, YLL06]. Leakage-Aware
[SKP21, YLL09]. Learn [RG19]. Learned
[XF+16]. Learning [ALLE20, CAOM19, CCMC20, DNT20, EW18a, GT21, HDZ20, HAW20, HMGM+18, HXC+18, HFM20, HHH+21, IE12, LG18, LYHL14, LPL+21, MBD+20, NPS+20, PML+14, RNA+21, RPR+21, SAHF+20, TKE18, WH19, WLH20, WDLX21, XAG+20, ZKS+16, ZHC+18, STL+13]. Learning-Based
[LG18, HFM20, XAG+20]. Least
[JLJ15]. Legalization
[CZYY21]. Legalizer
Pom14b, RFB10, BD00, CH10a, DS06, GOC02, HLCH07, JWL+03, KBN09, KKH+02, KHW06, KYN+12, LYCP13, ML09, RTNL05, SUC01, ZYDP08, ZP08.

lower [LC96, TC98]. lower-bound [LC96].
Lowering [JLK15]. LUT [CD06, CH00, KNRK06, LKM04, VKT02].
LUT-based [CH00, KNRK06, LKM04, VKT02]. LVS [LBV+06].

MAC [BS14a]. Machine [ALLE20, CAOM19, CCMC20, DNT20, EW18a, HAW20, HMMG+20, HXC+18, HHH+21, IE12, LYHL14, NSP+20, RPR+21, SAHF+20, XAG+20, ZHC+18, CK96, KMC97, MMP00, PHM00, MSR09].

Machine-Learning [ZHC+18]. Machines [LBV+06].
Macro [LJ18]. macromodel [CHY05].
Macromodel [SHD17]. MAESTRO [RGT+14]. Main [AAA15, BLNK14, NAK20, PBZM19].
Making [TCW20, XNB17]. Managed [KLK+17]. Management [ABC+17, BM11, CBHK15, DLP+17, DMR10, GCL+16, HC17, HXC+18, JPM+19, KKLG15, LH+17, LZA+21, MBD+20, MDR15, PJL14, PBZM19, SKP21, SAHF+20, VA17b, WMT+16, WXH+19, AHAP08, ADDM+13, AMM+06, ANR13, BHDS09, BMJ13, CLQ12, DS05, FHHG12, G14, HCK13, IBMD07, LMB+12, STL+13].
Manufacturing [YCL+20]. Many [CAOM19, SESN15, WMT+16, WDLX21, ZHC+21]. Many-Core [CAOM19, SESN15, WMT+16, WDLX21]. Manycore [AKJ+21, KLK+17].
Manycore-Based [KLK+17]. mapper [YTHC97]. Mapping [CPS16, ETAV18, GT21, HABS15, HAB+17, LFST21, VNS19, XGC+20, ZYPC17, CSL+07, CH02, CH00, CH0Y5, JP12, JD00, KL05, LKM04, MBB01, PL98, SKS12, WY06, WSEA99, ZS02].
Maximizing [HHK+17]. MaxSense [LM21]. Maze [LLL18, JCP05]. MCC [YYG+16].

MCEnu [TH12]. MCM [EK97].
MCMM [EK16]. McPAT [LLK+14].
MCUs [MB+11]. MDE [ORGD+15].
mean [Das04]. Measurement [APDC17, CTR19, JB08, XAG+20, LG12]. Measurement-Based [APDC17].

Mechanisms [CBO+18, GBK07]. MEDA [LSCK20, PBW21]. memetic [LFG+09].
Memories [AAA15, DFM15, JSA18, SKP21, JD00, MRB+11, NR03, OK08, RMB10, SP+08].
Memory [BLNK14, BD14, CPS16, CCK+18, CIX15, DFM15, JCK+18, JPM+19, KLSP11, KKLG15, LHS20, LLP+16, LWZ+19, LPL+21, MWS+20, NAK20, PDN97, PPP+15, PRKK21, PBZM19, RPR+21, SHBD21, SSL17, TLF16, TRM+16, TMDF10, WQC+16, WDZG16, WFT+19, WGSH16, WZL+21, XNZ+15, ZLW+15, ZZCY17, AMM+06, BD08, BHDS09, BGN+07, CPW04, CJLZ11, HKV+07, IBMD07, JCS+08, Kan06, KG09, LSPC14, MB04, NdLCR03, OK08, PCD+01, SUC01, SM00, WH05, Wu09, ZY+13, ZP08].
Memory-Based [BD14, CPS16, LWZ⁺19].
memory-constrained [OKZ08].
Memristive [XGC⁺20, MEMS [BHLG19, Kha12]. MEMS-IC [BHLG19],
Merging [ASAP17, CZW19, TCL14, LLCIC13, MB04].
Mesh [JM14, KK14, GHW⁺12, RL13].
Message [Hu20, KPB19, DSH12, EY12].
message-passing-based [EY12].
metamodeling [MPSJ07].
Method [AKAKP18, BZWZ17, CZZYW21, JSS⁺19, LCC⁺15, MNMK⁺21, RGM15, SRC15, STGR15, WTR12, WMT⁺16, WZL⁺21, YLZ⁺17, ZYW⁺18, CGN96, CL99b, HW00, KAG05, LH13, LDK99]. methodology [BW00, CEB06, MD13, SSCS10].
Methodology [BFV15, EAP17, KKLP15, KJR⁺07, KMO⁺12, LW17, LSZ⁺21, LZZSV15, LLL18, MM⁺12, MNMK⁺15, MS00, SRC15, STGR15, LZZSV15, LLLLL18, NSP⁺20, PKJK20, VA17a, VEO16, VBQ⁺19, XPS⁺21, AMM⁺06, DRG98, FLP09, HDL⁺12, HCLC98, HSI00, KYN⁺12, NR03, PW09, SE05, SMSB05, SZV⁺12].
Methods [EW16a, GDF09, KRL15, ZHC⁺18, FZK15, SW04, ZAJ⁺12]. Metric [YRH11].
Micro [RBWB20, YBM⁺21].
Micro-architecture [YBM⁺21].
Micro-Electrode-Dot-Array [RBWB20].
Microarchitectural [GOC02, LS11, HMLL11].
Microarchitecture [ZBP18, CFX09].
Microfluidic [CPK20, GHYR19, JHY21, KG⁺20, LHC16, LKC⁺18, MGR⁺15, MKW21, PCG16, RCK⁺15, RB12, SSK⁺18].
microfluidics [SOC06, SC06].
microfluidics-based [SOC06, SC06].
Migration [DK16, Kha12, TZ20].
Migration-Resistant [Kha12]. million [HH09].
million-gate [HH09]. Min [HS18, SSP04]. Min-Area [HS18, SSP04].
min-delay [SSP04]. Mine [LWC18].
Minimal [MCD12, ZYPC17, KL05].
minimal-area [KL05]. Minimally [RNA⁺21].
Minimization [HYN15, PIK20, WB16, AMR00, CSAHR07, CGN96, CCC9b, HPK99, HCS01, HC09, KC13, LXC04, LKM04, LDK09, LW06, LC07, MRC06, OK08, Ped96, PR06, Q09, SXX⁺06, TJJ09, ZYP09].
Minimizing [GSD⁺18, KOS09, PKJK20, TPC⁺17, WZL16, WC10, KT06].
Minimum [BFL10, HYN15, JKL15, KJ03, FNMS01, MS00, ZCG06].
minimum-area [MS00].
Minimum-Energy [BFL10].
Mining [LWC18].
miss [TY97].
Mistakes [DHB16]. Mitigate [JIR⁺21, MDR15, RJS09].
Mitigating [LHS⁺21, MRB⁺11].
Mitigation [BFL10, KRL15, MRL⁺20, HMLL11].
Mixed [BB17, CZZYW21, CYH19, HRC12, IGN18, KMR18, SAB17, YV14, ZABG17, ZSY18, AM05, KOS09, MS00, YWGi09].
mixed- [KOS09].
Mixed-Cell-Height [CZZYW21].
Mixed-Critical [IGN18, KMR18].
Mixed-Criticality [BB17, CYH19, SAB17, ZABG17].
Mixed-Signal [HRC12, STGR15, ZSY18].
Mixed-Size [YV14, AM05].
Mixture [RCK⁺15, SKS⁺18].
ML [LYM⁺20].
ML-based [LYM⁺20]. MLC [JSA18, KLY16, MWS⁺20, PPP⁺15].
MM* [LH14].
MNFTL [MWS⁺20].
Mobile [JZY15, LKH19, YPCF17, ISE08, JBC⁺10].
Moc [MPSJ07].
Mode [EK16, JOH17, KKS16, LC07].
Model [AVG19, CLH12, CHH15b, CB17, EAP17, GF16, GGB97, JH12, KW16, LH14, LJ18, LOC12, MS21, SBZ17, XLB17, YWGi09, YMB15, BLR06, BK10, BH03, CNQ13, CH13, CK96, LLLQ⁺03, MP07, MCMW08,
PWY05, RS98. Model-based [JJH21, MP07]. Model-Centric [XLB17].
Model-Driven [EAP17, LOC12]. modeled [ARLJH06]. Modeling [BKW15, BLUS19, CVMP19, GS00, GCZ+15, LG18, LLK+14, PSL+98, QBTM16, RGT+14, RPR+21, SSS+19, TWL16, WTR12, WGT+17, BBD00, JP08, LMW99, LON08, LVL03, MPSJ07, PTC05, RHN00, RFYL98, Rak09, SKCM06, RFYL98, Rak09, SKCM06, VAAM+98, VLG01, WLG+13, WJY+07, ZM07]. Models [APD+11, APS18, BBEM15, BFG17a, HHL14, LFST21, MA16, RG19, WLM21, YBM+21, ZABGZ17, GMSSS02, LTP10, MRC06, SGDO, SSB05].
Modern [DKT+16, NTSA18].
Modification [JK10, PAV17]. Modular [GAT+21, ZMS+19]. Module [HRC21, LCN18, SC06, CCX06, JC01, TW96].
Module-Linking [HRC21]. modules [CWW96, CZW+03, KT96, OWH08].
Modulo [PG15]. Modulus [CZZYW21].
Modulus-Based [CZZYW21]. Monolithic [AJK+21, LDD+18, LDD+19, PKC+21].
Monotone [DPNB02]. Monte [GLY+12].
morphing [RAKK12]. MOS [ZK15].
MOSFETs [BFL10]. mots [RFB10].
Motion [FG18, ZL+9+19, DHV+00, KMS12]. Movement [HWGY16].
MPSoCs [BG+07, GK14, KJK+08, KH010, SGDO].
MPSoCs [ADP+07, DJP21, LFST21, MRL+20, MHT14, RGT+14, SKS12, SSL17, YP10].
MRAM [JYZ15, SBT19]. MSG [WY06].
MTCMOS [HLCH07]. Multi [BS14c, CYH19, ETAV18, HC17, JOH17, KGS+20, KLE18, LFST21, PBWB21, PY20, SFM+19, SB+20, WFSS20, WDLX21, ZLY+15, CNQ13, HGBH09, HMB98, KOS09, MPSJ07, PB14, Pom14a, RAKK12, SVZ+12, Wu09]. multi- [KOS09]. multi-bank [Wu09]. Multi-chip [WDLX21].
Multi-Core [CYH19, ETAV18, SB+20, RAKK12, SVZ+12]. Multi-Cores [SF+19]. multi-cycle [Pom14a].
multi-engine [CNQ13]. Multi-Fidelity [WFS20]. Multi-FPGA [BS14c, PY20].
multi-MoC [MPSJ07]. Multi-Mode [JOH17]. Multi-Objective [KLE18, SFM+19, LFST21, PB14].
Multi-Target [KGS+20, PBWB21]. Multi-threaded [HC17]. multibank [WH05]. Multicast [WWCT18, XS16, XCF18]. multichip [OWH08].
Multicore [BM11, CRC15, DFM15, HX14, JPHL16, KLSZ11, LS11, LH+15, LMA+16, QBTM16, SPT+17, SAL19, THT12, WDGZ16, XP+21, BH+13, CNQ13, DSH12, HLD+12, KP13, LTP10, Ped11, QM12, SNL12, WTL+13].
Multicycle [Pom15a, Pom20, Pom13]. multidimensional [SBGD13].
multidomain [AM10, BMJ13]. multifunctional [AM10].
Multiharmonic [WGT+17]. Multilayer [KKHK16, LLLL18]. Multilevel [HBPW14, JYZ15, PJL14, JCS+08, SGK08].
multilevel-cell [JCS+08]. multimedia [HKL+07, ZH07, ZHOM08].
multimetric [HR06, RGM09]. Multimode [SSG03].
multiplane [AJM13]. Multiple [BM11, GY12, KRL15, Pom16b, SRC15, WC06, YLZ+17, CH96, GM08, JR97, KF+08, LB+06, LHLT12, MR+11, MR05, NDLCR03, PT06, PMB10, RMK03, RM09, SBGD13, WLT08, WLCJ09, WSEA99].
multiple-bit [RM09]. multiple-choice [SBGD13]. multiple-output [WSEA99].
multiple-project [WLT08].
Multiple-Supply [BM11].
Multiple-Transient [KRL15].
Multiplexed [LHC16, LM19]. Multiplexer [Pom18a]. Multiplexing [PY20].
Multiplication [GYT12]. Multiplierless [ACFM12, AFM14]. multipliers [RMPJ08].
multiprocessing [ZM07]. Multiprocessor [CHBK15, CH17, JOH17, KFH+08, NSH+16, APB+08, DCK07, DCK09, DCK10, HCLC98, Kan06, MOZ06, WLL+11, WG11, ZAJ+12].
Multiprocessors [HAB+17, JGM14, KBV+15, PJJ14, IAI+09, PTC05, ZYDP08]. Multitrate [ZABGZ17]. Multistage [Shi20, LON08].
Multiplexed Multiplication [GYT12]. multipliers [ACFM12, AFM14].

Networks [HCZ+16]. Networked [KC10]. Networks [BK15, BDBB19, CZW19, GAT+21, IHM15, JLM15, KPB19, LHS20, LY+19, MAS+20, MNMK+21, MPM+17, SRTG19, XLS15, YMB15, ZFLS11, ZYPC17, ZMP16, BLR06, CKX+13, CBR+15, GWR13, HMG13, JP12, JSG09, MD13, MDM07, OM08, RL13, TDE10, VS12a].
Networks-on-Chip [BDBB19, IHM15, JLM15, CKX+13, JP12, OM08]. Networks-on-Chips [VS12a]. Neumann [KT01]. NeuPow [NSP+19]. Neural [CH17, JLM15, LHS20, LY+19, MNMK+21, NGL+21, WXX+19, WDLX21].

NoC-based [MHT14, CAOM19, HWX+14, QBTM16, DJP21]. NoC-HMP [SPT+17].
NoCs [AJM13, AL19, DCL+17, HMMG+20, JLM14, KPB16, MT15]. Node [BDBB12, CZW19, PDS12, DHZ+11, JSG09, ZHOM18].
node-centric [ZHOM18]. Nodes [BDBB17, IZA+21, NSS+16]. noise [GGBZ02, HR06, HMLL11]. nominations [Auo13]. Non [GLY+12, LL15, SL18, STJG16, WDL17, ZYW+18, KCKG13].
Non-enumerative [STJG16].
Non-Gaussian [ZYW+18]. Non-Intrusive [LL15, SL18]. Non-Monte-Carlo [GLY+12]. non-overlapping [KCKG13].
Non-Volatile [WDL17]. noncomplementary [RS03].
Nonfunctional [HBPW14, RGT+14]. Nonideal [TWL16, WFT+19].
noniterative [MCMW08]. nonlinear [CC09b]. nonManhattan [Y00].
nonpreemptive [GD+08]. nonslicing [LCC11]. Nonspecified [WC10].

Near [KCKG13, PRKX12, SHN12]. Near-Memory [PRKX12]. Near-optimal [KCKG13]. near/sub [SHN12].
Network [CM20, CARH18, DJP21, DNT20, HZC+16, HXC+18, KLX+17, LDD+18, LDD+19, LW17, MT15, PMT20, WXH+19, WDLX21, XS16, XCF18, YKCG14, ZHC+21, ZYS12, CSC08, CL13, CM08, CKX+13, CCL04, HW14, KMC97, LCOM07, LLKY13, LLKC13, OCRS07, RFB10].
Network-on-Chip [CM20, LDD+18, LW17, PMT20, XS16, XCF18, YKCG14, ZHC+21, ZYS12, CSC08, LCOM07, LLKY13, LLKC13].
Network-on-Chips [HCZ+16]. Networked [KC10]. Networks [BK15, BDBB19, CZW19, GAT+21, IHM15, JLM15, KPB19, LHS20, LY+19, MAS+20, MNMK+21, MPM+17, SRTG19, XLS15, YMB15, ZFLS11, ZYPC17, ZMP16, BLR06, CKX+13, CBR+15, GWR13, HMG13, JP12, JSG09, MD13, MDM07, OM08, RL13, TDE10, VS12a].
Networks-on-Chip [BDBB19, IHM15, JLM15, CKX+13, JP12, OM08]. Networks-on-Chips [VS12a]. Neumann [KT01]. NeuPow [NSP+19]. Neural [CH17, JLM15, LHS20, LY+19, MNMK+21, NGL+21, WXX+19, WDLX21].

NoC-based [MHT14, CAOM19, HWX+14, QBTM16, DJP21]. NoC-HMP [SPT+17].
NoCs [AJM13, AL19, DCL+17, HMMG+20, JLM14, KPB16, MT15]. Node [BDBB12, CZW19, PDS12, DHZ+11, JSG09, ZHOM18].
node-centric [ZHOM18]. Nodes [BDBB17, IZA+21, NSS+16]. noise [GGBZ02, HR06, HMLL11]. nominations [Auo13]. Non [GLY+12, LL15, SL18, STJG16, WDL17, ZYW+18, KCKG13].
Non-enumerative [STJG16].
Non-Gaussian [ZYW+18]. Non-Intrusive [LL15, SL18]. Non-Monte-Carlo [GLY+12]. non-overlapping [KCKG13].
Non-Volatile [WDL17]. noncomplementary [RS03].
Nonfunctional [HBPW14, RGT+14]. Nonideal [TWL16, WFT+19].
noniterative [MCMW08]. nonlinear [CC09b]. nonManhattan [Y00].
nonpreemptive [GD+08]. nonslicing [LCC11]. Nonspecified [WC10].
nonstationary [AHAKP08], nonuniform [VCLD03], nonvolatile [SLXZ12, ZY+13].

note [CSL+07], Notions [SGC+14]. Novel

[KKKH16, LWZ+19, MS17, VNS19, DDFR13, SCCH08, Ped06]. number

[HPK99]. NVM [BRCS18]. NVMe [HC18].

O [LC13, Wu09, Yan16]. OAOS [HGLC16].

OBDD [FWCL05]. Obfuscated

[ISK21, LMS16, RNR+21]. Obfuscation

[AYS20, GDTF17, HYK+20, OK20, SLP+19]. Obfuscation-Based [GDTF17, HYK+20].

Object [Wol96, HCLC98, Hsi01]. Object-oriented [Wol96, HCLC98, Hsi01].

Objective

[KLE18, SFM+19, LFST21, PB14].

Observability [CLMZ10, CM13].

observability-based [CM13]. Observation

[LL15, HW14, Pom13]. Observing

[DBK+18]. Obstacle

[HLG+15, HGLC16, LLLL18, WSRH16, Yan20, LYKW09, SMYH07].

Obstacle-Avoiding [HLG+15, HGLC16, LLLL18, WSRH16, LYKW09].

Obstacle-Aware [Yan20, SMYH07]. obtain

[MS00]. Obviating [PBWB21]. Occupancy

[ZHC+18]. Octilinear [HGLC16, Yan08].

Off [FG18, PDN00, RYL+09, WPHL08].

off-chip [PDN00]. Office [GCL+16].

Offline [MGR+15]. Offline [JPM+19].

offs [FHHG12, PCC09, WYYG99, WGDK07, XPSE12]. OLED [LKH19].

On-Chip [ALL17, JNS+17, JYZY15, SCK18, SMBT19, ZYPC17, DNT20, LCOM07, PDN00, ZSZ10, ADS+09, CCL04, KP13, LH13, NR03, PPDK09, YLP+13, ZM07].

On-Demand [AAA15]. Once [CHBK15].

One [MWK21]. XFI+16]. One-pass

[MWK21]. Ones [PB12]. Online [MBD+20, ZAJ+12, ADDM+13, CSAHR07, RAKK12].

Only [CHBK15]. Opamp [Shi20]. OPC

[TZ20]. OPC-inclusive [TZ20]. open

[BCR+08, BD05]. open-source [BCR+08]. OpenCL [TL19]. Operating

[TWL16, TL19, PMB10]. Operation

[BPTB17, CLMZ10, GDTF17, MACV14, KJR+07]. Operations [BC16, LWZ+19, LXWC20, ARLJH06, BG01, HPK99].

operators [BD05], opportunities

[VCLD03]. Opposite [HCN09].

Opposite-phase [HCN09]. Optical [DZ18].

Optimal

[ABC+17, BKW15, BASB01, Cha01, CCX06, CARH18, CH96, FG18, GSS14, HWCL13, KNDK96, LCHT02, OWH08, PL09, SCK18, TS96, TPC+17, ZW98, BW00, BMJ13, CACS05, CGN96, CH00, DSK01, GH00, KCKG13, LH09, MKW08]. Optimization

[ACFM12, BZWZ17, BHLG19, CZW19, CYH19, CK16, DHVW18, DZCD15, GLY+12, GKO7, HRC21, HGL+15, HS19, JPHL16, JNCS19, KKK12, KKS16, LFST21, LHC16, LZZSV15, LHL1, LYP17, PST+20, PP+15, PY20, SFM+19, SYHL14, SHBD21, SRTG19, SHL+19, TRM+16, WHRC12, WFSS20, WKC12, WSRH16, WDLX21, BLM00, BDM+99, B4M00, BCC08, BDB98, BFP08, BOC00, BGN+07, CLKL06, CSC08, CCC09b, CFX09, CILJ11, Con06, DP02, GG04, GBC07, GDF09, GHW+12, HR06, HPK99, HG07, JPCJ06, KJJK03, KLSPL11, KCKG13, KSA+10, LLHT03, LCHT02, LC07, LLLL13, MKBS05, MHT14, MKW09, MLG12, OM08, PCD+01, PEPP06, RGM09, RJBS09, SB08, SPA+03, THL+13, VKKR02, VLH04, WGDK07, WLL+11, XZC09, GKO9].

optimizations

[GGDN04, KRS06, SSG12, SC00, ZHTC09].

Optimized

[ACF+11, BC05, HCRK11, MJB19, VA17b, ZABGZ17, ZY12, KCA04, SY07].

Optimizer [LDLM20]. Optimizing

[GY1T12, KSK+05, LPP00, LAS01, RBWB20, SYZ08, ZLW+15]. optimum

[Das04]. Oracle [RNR+21]. Oracle-guided

[RNR+21]. Orchestration [SAL19].

Orchestration [EW18a]. Order [DZCD15, KQP+19, LYSO19, SXZV13, ZBP18].
Ordered [JD18]. Ordering [AJM13, GKM05, LXCH04, MKW08].

GWR13, HDL\textsuperscript{+12}, LC96, LJCV02, LYKW09, LFG\textsuperscript{+09}, LV02, NS03, PND97, RAKK12, SLZX12, VLH98, WWG08, ZHM07.

Performance-Aware [BDBB19], Performance-constrained [BG01, WLCJ09, GOC02].

Performance-Driven [GDD21, HWCL15, Yan16, GK14, WY06, WLC02, EK97].
Performance-Efficient [YP10].
Performance/power [ZHM07].
Performance/Thermal [SYX12].
Performance/Thermal-Aware [SYX12].
Period [HYN15, DBB98, CGN96, PL98].
Periodic [CHBK15, Pom16c, SBY\textsuperscript{+20}].
Perpendicular [RPR\textsuperscript{+21}]. Perspective [RJ14, SS14, MOZ06, ZHOM08].
Perspectives [YBM\textsuperscript{+21}]. Perturbation [LYM\textsuperscript{+20}]. Pharmaceutical [YSF\textsuperscript{+18}].
Phase [BLNK14, IYF\textsuperscript{+21}, JSA18, KSA\textsuperscript{+10}, LPP\textsuperscript{+16}, CR12, HMB98, HCN09, KAG05, RAKK12]. Phase-adjustable [KSA\textsuperscript{+10}].
Phase-Change [LPP\textsuperscript{+16}]. Phenomena [ADB\textsuperscript{+19}]. Physical [CO18, HLHT08, PKC\textsuperscript{+21}, SKM\textsuperscript{+16}, YD16, GWR13, HMG13, MLG12, SYL09].
Physically [CSC\textsuperscript{+21}]. Piecewise [HBPW14]. Pin [XYG\textsuperscript{+16}, Yan20, OHW08, XTW05].
Pin-Access [XYG\textsuperscript{+16}]. Pipeline [CRC15, RPKC05]. Pipelined [CHBK15, LF12, MRL\textsuperscript{+20}, Hua01, MS08, MD08, NS03, RTNL05, YGH\textsuperscript{+10}]. pipelines [HA05]. Pipelining [AA17, KLV15, BG01, BASB01, CACS05, CL99a, HV98]. place [KCKG13, YWY10].
Placement [DK16, HWGY16, HWCL15, JHY21, JNC19, KRL15, LLL\textsuperscript{+18}, LNG\textsuperscript{+16}, LCC\textsuperscript{+15}, LB11, MCZ\textsuperscript{+16}, MJB19, PSD21, SAHF\textsuperscript{+20}, TRM\textsuperscript{+16}, WSH\textsuperscript{+18}, WSRH16, WLLH16, WDLX21, YV14C, ZSY18, AM05, ACT13, CBHK11, CACS05, CC06, CSX\textsuperscript{+05}, EK97, KPSW09, LCK\textsuperscript{+09}, OS03, RS03, SC06, Tes02, TY97, VLH04, WLC02, WCC03, WLT08, YWK\textsuperscript{+03}]. placements [HWCL13]. Placer [AMM\textsuperscript{+18}, DKT\textsuperscript{+16}, DKT\textsuperscript{+16}]. Plaintext [HYK\textsuperscript{+20}]. planar [DPNB02]. Planning [XYG\textsuperscript{+16}, YYG\textsuperscript{+16}, LC13, LHZ\textsuperscript{+06}, MKBS05, SBC08, XTW05]. PLAs [LWH06].
Platform [APD\textsuperscript{+11}, IGN18, VGG19, FNP09, JCS\textsuperscript{+08}, RFB10, ZHM07, PBSV06].
Platform-aware [VGG19].
platform-based [ZHM07, PBSV06].
Platforms [BS14c, ETA18, LS11, LMS16, MBD\textsuperscript{+20}, RS18, TBC17, VGG19, WDGZ16, YPCF17, BM13, CNQ13, JW08, LP07, MPDG09].
Playing [RLJ\textsuperscript{+09}]. PMC [CLH12, CCH15b, CH13]. PMU [APD\textsuperscript{+11}].
Point [ALL17, BS14a, BFL10, SRC15, XNZ\textsuperscript{+15}, AM98, CPW04, DPNB02, LCOM07, WG11, WFT\textsuperscript{+19}, Yan08].
point-to-point [LCM07]. points [PMB10, Pom13, TD03]. Poisson [QSK12].
Polar [JNS\textsuperscript{+17}]. polarity [CHH09, LT11].
Policies [DZCD15, Kha12]. policy [CXK\textsuperscript{+13}]. Polishing [LTW\textsuperscript{+16}]. Pollution [DJP21]. polygon [LLM01]. polygons [CT13, LM96, TP08]. Polymersase [LHC16].
polymorphic [LYW10]. polynomial [GK07, GKW09]. Polynonials [GLY\textsuperscript{+12}].
port [CL13, SBC08]. port-scalable [SBC08]. portable [LCZ\textsuperscript{+08}, Rak09].
Portion [GD20]. POSE [HS10].
Positioning [HK18]. Post [GDD21, PTS\textsuperscript{+20}]. Post-Processing [GDD21]. Post-silicon [PTS\textsuperscript{+20}].
Postlayout [CLLK06]. Postplacement [CMB07, LCY12, WWG08, XLL\textsuperscript{+16}].
Postscheduling [FHHG12]. postsilicon [MKK13].
Power [ACF\textsuperscript{+11}, ALL17, BLM00, BS14b, BM11, BPTB17, CMP10, CH10b, CHBK15, CXH\textsuperscript{+16}, CLMZ10, DLC\textsuperscript{+17}, DNT20, FG18, GBR07, GCL\textsuperscript{+16}, GAT\textsuperscript{+21}, HPK09, HYN15, JIR\textsuperscript{+21}, JLK15, KKKH16, LG18, LKM04, LYHL14, LLK\textsuperscript{+14}, LJJ12, LHK\textsuperscript{+15}, LKH19,
LS17, MAS16, MKW09, MN17, NPH+20, NSP+20, PJL14, Ped96, PTC+15, SCK18, SC00, SBC08, SYHL14, SSCS10, SESJ15, TWL16, TRM+16, TMDF10, TCL14, VNS19, WVVG99, WGT+17, WC10, WSRH16, XLS15, ZFLS11, ZK15, ZS16, ZMTC13, AHAKP08, BDM+99, BdM00, BD00, BMJ13, BBD00, CS07, CH10a, CM08, CIB01, CCX06, CCW08, CHHL96, CCC09b, CJLZ11, CLQ12, DS06, DTC+09, ETR07, GOC02, GDF09, GF10, GS13, HR06, HLCH07, HLHT08, HTCP13, JWL03, KBN09, KKH02, KOS09, KC13, KHW06, KYN+12, LMB+12, LLHT03, LHW97, MKK13, MRC06, MKW08, MLG12, MFS09, ML09, NT05].

power [PPDK09, Pom14b, PWY05, PR96, RFB10, RTNL05, STL+13, SUC01, SPMS02, SNL12, SZV+12, TKVN07, T99, THC+14, WJY+07, YHL+11, YGZ04, YLL06, YHL07, YHH09, ZHM07, ZLL13, ZYDP08, ZP08, ZYP09].

Power-Aware [LHK+15, SBC08, SNL12].

Power-delay [MKW09, SC00, WVVG99].

power-density [ZYP09].

Power-Efficient [JLK15, SZV+12].

Power-Gating [KKHK16, YHL07].

power-optimal [MKW08].

Power-safe [ZMTC13].

power-transmission [KC13].

Power/Ground [LHJ12].

Powerful [XPZ+18, CSAHR07].

Powerful [LTYW12, MB04].

PowerPC [WAZ98].

Practical [CPK20, Pie16, VJBC07].

Practice [MDM+12, SSCS10].

PRAM [KYL16].

PREASC [GD20].

precedence [ZAZ13].

Precise [Ali12].

predefined [PSK08].

Predictability [NSCM17].

Predictable [VGG19, WLZ+19, HGBH09].

Predicting [LHS20].

Prediction [CS07, DNT20, DKZ+15, FG18, HWX+14, JGM14, LPY+20, PBL+17, SAHF+20, CR12, OM08, SYL09].

prediction-based [OM08].

Predictive [AVG19, HW00, TKVN07].

Preemptive [IHM15, SSC17, GDG+08].

Preface [YD16].

Preferred [Pom18a].

Prefetching [DJP21, LV02].

prefix [LH09, ZCG06].

Preparation [PGCB16, PBWB21, RCK+15, SKS+18].

prescribed [DSRV02].

Presence [EKS+14, MCMW08], Preserving [HK18].

Prevent [WSS+18].

Preventing [YCL+20].

Previewer [HFMB20].

Primary [Pom16a, Pom21b].

Principle [CHBK15].

Principles [SBY+20, Ped96].

Print [DZCD15].

Prioritize [IHM15, KPF16, LMS16, WDZG16, MHQ07].

Priority-Aware [KPF16].

Priority-Preemptive [IHIM5].

Privacy [HK18].

Proactive [KBV+15].

Probabilistic [APS18, CKAP07, CB18, GQW19, KW16, KVMH08, BLR06, FZKS11].

Probe [Kha12, BC05].

Probe-Wear [Kha12].

problem [DPNB02, DS06, FNM01, LVL03, NR01, PDN00, SW99, YWW10].

problems [SB98, WGD07].

Procedure [Vah99].

Process [AKAKP18, BHLG19, GC18, LWZ+19, RJ14, VEO16, CS07, GM08, KTKO13, KPR06, LG12, LH13, LTPR+13].

Process-in-memory [LWZ+19].

processes [JB98].

Processing [BM11, GFJ16, GDD21, LYL+19, MFHP12, PRKK21, HMMG13, JSG09, LPP00, NM13, TYH08, ZHOM08].

Processor [HKL+15, ISE08, LHL16, LYL14, LF12, NSH+16, NRZ+18, OHA19, SPT+17, VLLG01, DHZ+11, GG04, Giv06, HGBH09, KBA08, LMB+12, OCRS07, PDN97, PDN00, RFBI0, SGID10, WKR09].

processor-based [PDN00].

Processors [CRC15, JZY15, KAKSP16, KLK+17, KLJ14, LPD+17, LHF12, TY19, BH10, CL99a, CPW04, Edw03, Hua01, KJR+07, LJ14, LCD07, LB00, MD08, PHM00, RAKK12, SR12, TKVN07, LSV06].

product [DK08].

Production [PBWB21, PKP+03].

profile [ZSZ10].

Profiling
[SMBT19, THC+14]. Profiling-Based Program
[SMBT19]. Program [HKL+15, BGN+07, RAKK12, WWC04].

Programmable
[GHYR19, WSS+18, ZK15, CH02, CD96, LSPC14, MSD06, PTC05, PWY05, WV02].

Programming [ETA+18, KLSZ11, TZ17, WLZ+19, ADDM+13, GH00, KLSZ09, KJK+08, TP08, WJYJ11].

Pseudo-protected [ADDM+13].

Programs [PMS15, SYHL14, YE12, Val02, YWGI09].

Progressive [KC10]. project [WLT08].

projective [DL11]. Prolonging-Based [AAA15].

Proof [CCMC20, IPWW17].

Proof-Carrying [IPWW17]. Propagation [AL19, MCD12, KPR06, RCD07, YH97].

Properties [CVMP19, HBPW14, RGT+14, WFT+19, BDC08, BH03, BFP08, BZ08].

property [KHP05]. Protect [MLH+17].

protected [LSDV10, RMB10]. Protecting [DFM15, GFT16, YBS+18].

Protection [GDTF17, SLP+19, KHP05]. protocol [ADS+09, BGM04, DP04]. prototype [APZ+08].

Prototyping [ARLJH06, ORGD+15, JDT+08]. Provably [ADS+09, Das09, YWK+03]. Provide [KKLG15]. Providing [HC18]. Proximity [DZ18].

Pruning [MMN+21, DHV+00].

Pseudo [PKC+21]. Pseudo- [PKC+21].

PSL [BZ08]. PTM [LLH+17]. PUF [CCMC20, IK19, NSCM17]. PUFs [HRK18].


QoS [LYLW17]. quad [LBV+06].

quad-core [LBV+06]. Quadratic [AL19].

Quadruple [JIR+21]. QuadSeal [JIR+21].

Quality [BZWZ17, JSS+19, LKH19, LPY+20, POM19b, BHW+13, XPSE12].

Quality-Assured [JSS+19].

Quality-Enhanced [LKH19]. Quantifying [SGC+14, YRH11]. quantitative

[LCOM07]. Quantization [GYT12].

Quantum [LSZ+21]. Queuing [SSL17].

Race [BK10, HN07]. Radio
[JDT+08, JSG09]. Radix [BS14a]. Rail [VEO16]. RAM [LSL+13, SABS15]. ramp
[KM97]. Random [BZWZ17, BS14b, RPR+21, JT98, KPR06, SXZV13, SN12].

Range [MS17, CL13, LSPC14]. Rapid [EW18b, ORGD+15]. Rare [ZKS+16].

Rare-Event [ZKS+16]. Rate
[CJJK19, HDZ+20, LD17, MDG98, PB12, PHKW12, TY97]. rates [ACT13]. Ratio
[WLLH16, Das04]. RC [KM97, VEO16].

RDL [Yan11]. Reachable [XLN17].

React [ADB+19]. Reaction [LHC16].

Reactive [WLZ+19, ZABGZ17, PSL+98].

Read [JSA18, LHS+21, PPP+15, WHXZ13].

Real [CHBK15, CH17, FG18, FHHR21, HXC+18, KPF16, LSCK20, NSH+16, PKJK20, PSNC18, SSC17, SBY+20, WLZ+19, WDGZ16, WJ0+19, YRH11, ZLW+15, APB+08, DRG08, HMVG13, MHQ07, PEPP06, PW99, WLL+11, ZAZ13].

Real-Time [CHBK15, CH17, FG18, HXC+18, KPF16, LSCK20, NSH+16, PSNC18, SSC17, SBY+20, WLZ+19, WDGZ16, WJ0+19, YRH11, ZLW+15, FHHR21, APB+08, DRG08, HMVG13, MHQ07, PEPP06, PW99, WLL+11, ZAZ13].

realistic [MF09]. Reality [XLN17].

Realization [ACFM12, CHHL96].

relocation [ZYP09]. realtime [HG07].

Reassignment [Yan20, Yan08].

ReChannel [RHA08]. Recognition [GFJ16, RG19]. recompilation [GF10].

Reconfigurable
[ADB+19, AVG19, BKW15, CPS16, CM20, EK16, JPHL16, LPL+21, MS21, MLC08, MRL+19, ORGD+15, SSC17, SVK17, ZLQ15, ZMS+19, ARLJH06, GDG+08, HBC+08, HW14, JBC+10, KKM02, KLS11, LCK+09, RHA08, WKR09, WLC02, YLP+13, YGH+10, YWLL09].
Reconfiguration [CAOM19, MCZ+16].
reconfigurations [RCG+08].
reconstructions [WC06]. reconstruction [Yan08]. Recover [BFV15]. Recovering [JCK+18]. Recovery
[NSS+16, WL12, ZAZ13]. Rectangle [Yan18]. rectangular [DSK01, Meh98].
Rectilinear [GC96, LLLL18, WCC03, LYKW09, MHD+04, MS00, OWH08].
recursive [LC96]. Recycling [TCW20].
Reduce [CIX15, JK10, Pom16c]. Reduced [PAV17, AMM+06, SBH+06]. reducible [BC11]. Reducing [ASAP17, BFG+19, BWB14, CJKK19, DJP21, HH09, Kan06, KJ14, LYCP13, PR11, SYHL14, KTKO13, MB04, PGB01, TKVN07].
Reduction [ABC+17, BDB12, FLWW02, PCT+15, Shi20, WB16, WDLD17, WH19, WLH20, CFHM09, CCW08, DK08, ETR07, GF10, HLHT08, KYN+12, LCC11, LLHT12, LCJ+10, NT05, RMKP03, SY07, SBH+06, SPMS02, TY97, WVVY99, YHL+11, YWK+03, YLL06].
Redundancy [CJKK19, JLK15, CMNQ08].
Redundant [KMO+12, SHL+19, PGB01]. reference [AOC02, SM00]. refinement [CLM+10, GGB07, MS08, MOZ06]. refit [DVA02]. Refresh [CJKK19, LSL+13].
Region [BZWZ17]. Regions [JCK+18].
Register [GF10, HWCL15, LHF12, MHP96, TLCF16, WKL+18, XLL+16, CACS05, CFX09, HCN09, KI01, KNDK96, LWL11, VKKR02, ZYP09]. register-file [CFX09]. registers [CL99a]. Regression [BBDO0, GD20]. Regression-based [BBDO0]. Regular [XYG+16, CH13].
Reliability [APS18, CSC+21, CET16, CCK+18, KMO+12, LHJ12, PPP+15, RMB10, TK18, WXH+19, XLY+18, GS13, JS13, KVMH08, LH13, ZAZ13].
Reliability-Aware [CET16].
Reliability-Driven [LHJ12]. Reliable [BJX15, GC18, JPCJ06, MACV14, WZL+21, XCF18, XNZ+15]. relocation [LLL13].
Remote [CRT19, KO018, KC10]. Removal [MGR+15, CMNQ08]. reorder [WPHL08].
Reordering [WC10, GFC+09, Hu01, PR96].
Reorganizing [JCK+18]. Repair [CJKK19, KMO+12, PSNC18, MRMP08, NR03]. Repairable [KMO+12]. repeating [LWC07]. Replacement [CZW19, JCK+18, CCW08]. Replay [ZLQ15, EY12]. Replication [DFM15]. representation [CCQ98, YYC09].
Representations [KQP+19, YCC03]. Representative [FYCT15, PKJK20].
Resistance [KYL16]. Resistant [Kha12]. Resistive [EBR+09, LWZ+19, TLCF16, WFT+19, XNZ+15, LLQ+03, SKCM06].
resolving [Das09]. Resource [CET16, DK08, FS13, HC17, KK14, LF12, MBD+20, TCL14, WG11, WLH20, WGSH16, BDB98, CFX09, HLKL07, Kuc03, LSDV10, MKK13, MJM11, NR01, WDGD07, YWW10, ZHOM08, KMR18].
Resource-aware [FS13].
Resource-constrained [WG11, WLH20, LSDV10, NR01, ZHOM08].
Resources [JNS+17, PGB01]. Response [CH17, PMS15, SS016, DC07, SCJ01].
Responses [XCW12]. Restore [ZZCY17]. results [AYM05]. Resynthesis [WPR+19].
Retargetable
[PHM00, AMR00, KJ+08, VLG01].
Retargeting [DZ18, WJYZ11]. Retention
[CJKK19]. reticle [WLT08]. Retiming
[BOC00, HMB98, HLHT08, SPP04, Zho08].
Retiming-based [BOC00]. Retracing
[LLLL18]. Reuse
[AC06, BFP08, LDLM20, NAK20, OHA19,
IBMD07, LSPC14, RSR01, VCLD03].
Reuse-based [OHA19]. Reusing
[CCL04]. Revealing
[CM19]. Reverse
[AYS20, CM18, GDTF17, WSS+18].
reversible [MDM07]. Review
[IE12]. revisited [RS98, SDF+09]. Revisiting
[GWR13, ZSY18]. Revitalized [PCT+17].
Rewarding [TEK18]. Rewriting
[LTYW12, CMB07]. rewriting [ARLJH06].
rewriting-logic [ARLJH06]. RF
[BBOB15, HCZ+16, LYSO19, LZ21, PTS+20].
RF-Interconnect [HCZ+16]. RF/Analog
[LYSO19]. RFID
[DTC+09, YFT18, YBS+18].
RFID-Enabled [YFT18]. rhythms [GS13].
rich [SHBD21]. right [MR96]. ring
[GK07, GK09]. Ripple [HWGY16]. rISAs
[SHB+06]. RISC [HV98, BZFP18]. risk
[DS05]. river [ZW08]. RL [NT05].
RL-Huffman [NT05]. RLC [MN17].
Robust [BJX15, CZZYW21, DZ18,
GCZ+15, MCD12, PBWB21, STGR15,
TLC16, ZK15, CLYPO9, ST99].
Robustness [BHLG19]. Role [CK19].
orotary [TDF+09]. Routability
[AMM+18, HWGY16, SAHF+20, THL+13,
ZSY18, CLYP09, HSA+04, SYZ08, WSV+14,
YCHT00]. Routability-Driven
[AMM+18, HWGY16, ZSY18]. Routable
[LCYN18]. Router
[PMT20, TCL14, XS16, CLYP09, JCGP05,
MLC08, TDF+09, wATkK02]. Routers
[JMI4]. Routing [CLC20, GdRJM21,
GKM05, JD18, LHHJ12, LLLL18, LKC+18,
MAS+20, MCZ+16, RGM15, RBWB20,
TZ17, TZ20, WLLL16, XYG+16, Yan18,
Yan19, Yan20, ZHC+21, CZW00, CKKT98,
DSKB04, DVA02, GMN+13, LKC13,
LCC11, LCJ+10, MW97, OW06, OWH08,
RL13, SMYH07, Yan00, YW09, Yan11,
YMC+13, YCHT00, ZW98, ZHTC09].
Routing-aware [GKM05]. Routing-Based
[LLLL18]. Row [SAL19, LC13]. row-based
[LJC13]. Row-Buffer [SAL19]. RRAM
[LXWC20]. RRAM-based [LXWC20].
RTGC [ZLW+15]. RTL [BK00, BBD00,
BFP08, BFV15, Fuoj05, GS00, ISK21, LV14,
PGB01, PSK08, PK20, WLM21, XG97].
Rule
[GDJRM21, KMO+12, MS17, VNS19, RS98].
Run [DP02, HMLL11]. Run-time
[DP02, HMLL11]. Runtime
[CLC20, GdRJM21, GKM05, KMO+12, LV14,
LPL+21, NRZ+18, VTC20, WXH+19,
ADDM+13, GFC+09, GDC+08, HW14,
RGC+08, SKS12, WYJ+07, YGH+10].
runtime-reconfigurable [GDG+08].
safe [ZMT13]. Safety
[MN17, XLY+18, MS08]. Salsa20 [MAS16].
Sample [PGCB16, PBWB21, ZKS+16].
Sampling [WTR12, ZYW+18]. SAT
[CLM+10, Che18, CYV+14, DP02, RCD07,
SGK08]. SAT-based [CLM+10, SGK08].
Satisfiability [BR12, GMSSS02, OK20,
PG15, GPK+09, HSA+04]. satisfying
[QS09]. saturation [CCL13]. saving
[HW00]. Savings [LKH19]. Scalable
[AA17, KLK+17, PJJL14, SESN15, SKM+16,
HG07, KCKG13, SBB08, SBGD13, WSV+14].
Scalable-Throughput [SESN15]. Scale
[DNT20, HCC17, LYL+19, YVC+15, ZHC+21,
CSX+05, HCK13, KBA08]. Scaled
[PHKW12]. Scaling [GC18, HCC17, HHL14,
LV14, WGS16, IAI+09, KSA+10, ML09].
Scaling-Aware [HC17]. Scan
[BKW15, KMO+12, LWC07, LWK11,
PSD21, Pom16b, Pom16c, Pom17b, RNR+21,
WC10, WWW+12, XCW12, DDFR13,
GKM05, KBN09, NT05, PR09, PR11,
RMK03, SSGS03, TYH08, WPHL08].
Scan-based [LWK11, KBN09, PR09].
Scan-BIST [LWC07]. Scan-Cell [WC10].
Scan-In [Pom16c]. Scan-Shift [WC10].
scanline [CT13]. Scenario [BLUS19, DCK09, EK16, KW16, GPH+09].
Scenario-Aware [BLUS19, KW16].
Scenario-based [DCK09]. Scenarios [NRZ+18, SPG+08].
Schedulability [GDG+08]. Scheduler [SGC+14].
Scheduler [NSH+16, JP08]. Schedules [DCK09].
Scheduling [ABC+17, BB17, BDBB19, CACS05, CIX15, ENP20, JOH17, KPB19, LHW97, MAS+20, PMS15, SSC17, SAL19, SZB17, WCB15, WWCT18, WJG+19, XPX+21, CLM+10, CJLZ11, DS05, DHV+00, GBC07, HN07, JR97, KW02, Kuc03, LLHT03, MKBS05, MJM11, MHQ07, MR05, MWG97, NR01, RCG+08, SX+06, TC98, WH05, WGD07, YWW10, YGH+10, YYLL09].
schematic [KG09]. Scheme [BM11, JDD20, KKLG15, KKL+17, LTYW12, WHRC12, WH20, XS16, HCK13, KSA+10, XLC13].
Schemes [MGR+15, CSC08, KCKG13].
Score [XLL+16]. scratch [IBMD07].
scratch-pad [IBMD07]. Scratchpad [CP16, DFM15, BD14]. SCRIPT [NPH+20]. Scrubbing [SVK17]. Search [RFC20, VCLD03, CM07, DVA02, YWW10]. search-based [DVA02].
Search-space [RFC20]. Searching [DK16, SYZ08].
Section [BMdG17, CO18, KLSZ11, YD16, CH10a, CLQ12, HJ08, JW08, KLSZ09, MD13, RBA+12]. Secure [BHK17, LSCK20, YCL+20, HBC+08, ISE08, HRK18]. Security [CM20, CPK20, GWQ19, HMO+14, LHLP16, LZZSV15, LMS16, MAS+20, MPM+17, NSCM17, RNR+21, SLP+19, TK18, WLM21, YSF+18, YBM+21, DP04, IAI+09].
Segment-Based [WL12]. Segmented [HSA+04, JWL+03, YCHT00]. Select [Pom18a]. Selection [AKAKP18, CV17, FYCT15, GC18, JM14, KPF16, STJG16, ZKS+16, CGN96, CCC09b, LB00, PMB10, VLG01, XCL13].
Selective [Mut09, NRDB19, LCT03, WY06]. selectively [BD00]. selectively-clocked [BD00]. Self [CRT19, EO19, IYF+21, LW21, PI20, SBB+18, SLH+19, WCB15, XYG+16, SEN05, SZV+12]. Self-Aligned [SLH+19, XYG+16]. Self-Measurement [CRT19].
Self-Similarity [PIK20]. Self-Test [EO19, SBB+18, WCB15, IYF+21].
sensor-driven [ZS10]. Sensors [FG18, RG19, YHL+11]. Separation [EK16]. sequence [GF06, LC07, MMP00].
Sequences [PKJK20, Pom15b, Pom15c, Pom17b, Pom18a, KT01, LWC07, PL03, PR11].
Sequential [LV16, LD17, SPA+03, WKC12, BLC06, BOC00, Che96, CPR+02, Edw03, HVF+01, HRP00, HCC01, JB98, KT96, KO809, MPM00, PL98, SNH02, Vah02, YWGI09]. sequentially [LAI00]. SER [LD17]. Serial [PMP17]. Serialized [KH10]. Series [TW96]. Series-parallel [TW96]. server [dW97]. servers [ANR13]. Service [DKZ+15, AHAKP08, CBR+05].
Service-Level [DKZ+15]. Set [HL15, LPD+17, LHF12, LF12, MCD12, OT15, Pom19b, DPB02, Hua01, LP03, LCD07, LLYW10]. Sets [Pom16b, YRH11, PR07, TCP97]. SEU


Similarity [PIK20, TYSF20, YRH11]. Simplifying [PA05]. Simulated [ZYW12, SMYH07]. simulating [RHA08].

Simulation [BLUS19, CDB11, EKS+14, EO19, GDPRG11, HBPW14, HIW15, HPB11, IHH05, MDN+12, PGRK08, ST99, SKM+16, WFSS20, WWFT12, ZWD11, CVMP19, DCK10, DL11, HVF+01, HKB+07, KMC07, LO12, PTC05, PHM00, RSR01, WTL+13].

Simulation-Based [EO19, PGRK08, LOC12]. Simulations [LS11]. Simulator [LHK+15, FWCL05, EBR+09]. simulators [RPK05]. Simultaneous [CC06, CYY+14, CFX09, JK10, LXCH04, SM00, CCX06, CWW08, CW01, MRC06, YHH09]. simultaneously [HLCH07, SSP04]. Single [BD14, HCW+16, KRL15, LSS+21, SKS+18, SSL17, VE016, Yan19, Yan20, PTC05, VJBC07, YW09]. Single- [SKS+18]. Single-Chip [BD14, PTC05].


Sizing [DZ18, KKS16, ZL11, LGGJ14, SV16, ZLL+16, CW01, HR06, LG12, MLG12, RGM09, SC00]. Skew [CHH09, TWC20, CKKT98, HW07, HTCP13, LLHT12, NIT11, wATK02]. Skew-aware [CHH09]. Skewed [Pom19a, CSKR05, Pom14b]. Skewed-Load [Pom19a, Pom14b]. Slack [ASAP17, NRZ+18, CNG96, KSA+10]. Slack-Based [ASAP17, KSA+10]. Slacks [PSNC18]. Sleeping [TEK18]. Slow [WCCC14]. Slicible [DSK01]. SLO [HC18]. slow [NS03]. slow-speed [NS03]. Small [WGT+17, XLCL13]. small-delay [XLCL13]. Small-Signal [WGT+17].

Smart [AL19, HXC+18, HK18, JDD20, SKM+16, YMB15, ZHC+18, JS13, AL19]. Smart-Startup [KHC+18]. Smart-Grid [HXC+18]. Smart-Hop [AL19]. SmartCap [LYHL14]. SmartDR [GdRJM21]. Smartener [HMB12]. Smartphone [LYHL14].

Smartphones [LYLW17]. SMs [SBR+17]. SMT [AA17]. SMT-Based [AA17]. Snoop [PCT+17, ZYPD08]. SoC [KZS+19, GM03, GDF09, XZC09, BHW+13, DCK10, Kan06, LLH+17, LCL08, MOZ06, SBC08, TCL14, WLC09]. SOC-based [GDF09]. SoCDBL [AHL+08]. SOCs [MSD06, BM11, JHMG18, JHPL16, ZM07].

Soft [DFM15, LD17, LW21, PHK12, TCL16, QS09, RJB09, ANS+20]. Soft-Error [LW21, TCL16]. Soft-Error-Rate [LD17]. Soft-Hat [ANS+20]. Software [ANS+20, BM11, JHMG18, JHPL16, KMR18, LP+16, LHF12, THT12, YYL+15, AM05, BASB01, CMM00, CACS05, CM13].
Space

Source-Synchronous source-level [KRK98].

Specialized YWGI09, YGH.

Specifying

Specifications [Pie16, CMM00, DDNAV04, MB04, VKKR02]. Spectral [KOO18, TN99].

Spectra-based [TN99]. Speculative [NRDB19]. Speed [CK16, PTC+15, TPC+17, NS03, OW06, PSD21, SXZV13].

Speeding [CLM+10]. Speeding-up [CLM+10]. Speedup [Che18, KAKSP16].


Spintronics-based [MS21]. Split [YCL+20]. Splitting [CZZYW21].

SPMCloud [BD14]. Spread [MJB19].

SQLite [LLP+10]. SRAM [CCC+99a, HHL14, JLF+12, NdLCR03, ZYW+18].


SSDs [GD+18, HC+18, LHS+21]. SSER

PHKW12. Stability [HHL14]. Stack [WDZG16].

Stacked [SYX12, THM15, LHZ+06]. Stage

[LFZ+17, Shi20, KSA+10]. Stage-form [Shi20].

stages [SYL09]. staircases [MSKBD07].

Stairway [MHD+17].

Standard [ACF+11, DBK+18, KRL15, TRM+16, PR09, SSS10, TS96].

Standard-Cell [DBK+18, SSS10]. standard-scan [PR09].

Start [ZLY+15]. State [AVG19, CCS15, CK16, Pom15a, BDC08, CD09, CCY14, CK96, CHHL96, HRP00, Pom14a, SNH02].

State-Based [AVG19]. States

[Pom16c, LIA00]. Static

[BDB12, ETAV18, LV14, MHA19, Pom15b, XPP+21, ZFLS11, DH06, EM003].

Statistically [KKLG15].

Statistical

[BBEM15, CV17, JGM14, KPR06, LM21, PHKW12, RPR+21, SV16, STWX12, XT16, ZKS+16]. statistics [SNH02, SXZV13].

steering [HKV+07]. Steiner

[CKKT98, GC96, HGLC16, LLLL18, LYKW09, SMYH07, Yan08]. Steiner-point [Yan08].

Stencils [YYG+16]. Step

[HGLC16, Vah02]. stimulii [MFS09].

Stimulus

[CVY+14, LV14, BLR06, PKP+03].

stimulus-free [BLR06].

Stochastic

[GLY+12, MMP00, GBC07, NM13].

Stopper [PCT+17]. Storage
[BD14, CCH\textsuperscript{+15a}, Kha12, KCA04, WQC\textsuperscript{+16}, ZLW\textsuperscript{+15}, ZMS\textsuperscript{+19}, BD08, Meh09, Wu09].

stores [HCK13]. Straightforward [LH09]. Strategies [JM14, XLS15].

Strategy [KKHK16, ADDM\textsuperscript{+13}]. stream [LWK11, NM13]. Streaming [RS18, TY19, ZLL\textsuperscript{+16}, ZMP16, FHHG12, KSS\textsuperscript{+09}, WLL\textsuperscript{+11}]. Stress [LS19, WXH\textsuperscript{+19}]. Stress-Induced [LS19].

striping [CCYC14]. Strong [AYS20].

Structural [CML98, CH00, AYM05, CL99a, HA05, VLH98]. Structure [KKHK16, FWCL05]. structured [THL\textsuperscript{+13}]. Structures [TB20, BK00, DDFR13, GMN\textsuperscript{+13}, Huo01, Meh98].

STT [JZY15, LSL\textsuperscript{+13}, SABS15, SMBT19, WSS\textsuperscript{+18}]. STT-MRAM [SMBT19].

STT-RAM [SABS15]. Stuck [TPC\textsuperscript{+17}, HVF\textsuperscript{+01}, PR09]. Stuck-At [TPC\textsuperscript{+17}, HVF\textsuperscript{+01}, PR09]. Study [LLP\textsuperscript{+16}, LYM\textsuperscript{+20}, LC13, MLC12]. Style [CFD\textsuperscript{+16}]. Styles [LCYN18]. Sub [BFL10].

Sub-45nm [BFL10]. sub-threshold [SHN12]. subGraph [YYC07].

subnetworks [TDF\textsuperscript{+09}]. Substrate [Yan20, LCJ\textsuperscript{+10}, SKCM06]. substrates [SKCM06]. subsystems [JSG09].

Subthreshold [BFL10]. Successive [HWCL15].

Successive-Approximation-Register [HWCL15]. sun [DK08]. sum-of-product [DK08]. SUPERB [EBR\textsuperscript{+09}]. Supervised [RNA\textsuperscript{+21}].

Supply [BSP\textsuperscript{+19}, BM11, JLK15, SLP\textsuperscript{+19}, WCCC14, XRS\textsuperscript{+19}, YFT17, YSF\textsuperscript{+18}, YTF18, YBS\textsuperscript{+18}, JR97, LLHHT12, WLCJ09]. Support [MCZ\textsuperscript{+16}, WK1\textsuperscript{+18}, ZP08]. Supporting [LYL\textsuperscript{+19}, ZLL\textsuperscript{+16}]. Supports [MLH\textsuperscript{+17}].

Suppressed [BC16]. Surrogate [WFSS20].

Surrogate-Based [WFSS20]. Survey [BFG17a, BRCS18, HHH\textsuperscript{+21}, LM19, Mit16, MRL\textsuperscript{+19}, RJ14, BD97, CEB06, KG99, KP13, SW04]. survivability [ACT13]. suspect [DNA\textsuperscript{+12}]. Suspension [NSH\textsuperscript{+16}].

Sustainable [CXH\textsuperscript{+16}]. SW [ADP\textsuperscript{+07}, BFV15, FLPPP09, WWFT12].

Swarm [HLG\textsuperscript{+15}]. switch [CWW96, CZW\textsuperscript{+03}, FLWW02, FLW07, RFYL98, THL\textsuperscript{+13}, ZHTC09]. switchboxes [DSKB04]. switched [CSC08, HWCL13].

switched-capacitor [HWCL13]. Switching [AVG19, SGS14, SRC15, BLR06, HCN09, PR11, SXX\textsuperscript{+06}]. switching-activity [SXX\textsuperscript{+06}]. Symbolic [BDM\textsuperscript{+99}, BFG17b, MCD12, SHD17, BLM00, FWCL05, KVMH08, YWGI09]. Symbolic-Event-Propagation-Based [MCD12]. symmetric [IAI\textsuperscript{+09}].

Symmetrical [OCK19, CZW00]. symmetries [CMO07]. Synchronizing [MDM\textsuperscript{+12}]. Synchronous [CH17, HPB11, PMS15, TB20, WWW\textsuperscript{+12}, YKCG14, ZABGZ17, BDM\textsuperscript{+99}, BASB01, CACS05, CPR\textsuperscript{+02}, HKB\textsuperscript{+07}, MB04].

SynergyFlow [LYL\textsuperscript{+19}]. Synthesis [AA17, BR12, BD00, CSKR05, CET16, CLMZ10, CCL03, EO19, GBR07, HS18, HRC21, HMVG13, HC\textsuperscript{+16}, ISK21, JIJH21, KK14, KKK12, KKS16, LS17, MWK21, NG06, OCK19, PDS12, PG15, QSW\textsuperscript{+15}, RJ14, Sch17, SGC\textsuperscript{+14}, SS14, SGR14, SV11, SCCH08, WCCC14, YMB15, ADS\textsuperscript{+09}, BDM\textsuperscript{+99}, BZ08, CLLK06, CMM00, CRMM00, CL99b, CD96, DDNAV04, FHHG12, GG09, GOC02, GH00, GDGD04, GWR13, HLKN07, HCLC98, Huo01, HLHT08, Huo01, JLF\textsuperscript{+12}, KSS\textsuperscript{+09}, KKH\textsuperscript{+02}, KK11, KW02, KHP05, KHF\textsuperscript{+08}, LCD07, LC14, Lin97, LLHHT12, LW06, MMP00, MDCM07, MKBS05, MLCJ11, MRD06, PBSV\textsuperscript{+06}, RFYL98, RS03, SW12, SCB01, SV07, TN99, TC98, VLH98, VKT02, VKR02, WV02, WG11, WZH11, XK15, XPS13, YWW10].

Synthesized [RB21, SBR\textsuperscript{+17}]. Synthesizing [GS07]. synthetic [PSK08].

System [BM00, CH17, DMR10, GM08, GPH\textsuperscript{+09}, HKL\textsuperscript{+15}, HZS\textsuperscript{+19}, LL15, LG18, NA20, NRZ\textsuperscript{+18}, PDS12, PPDK09, Pie16, ...]
PBSV+06, RFG20, SL18, SGGR14, TK18, WL12, YYG+16, ZHM07, APB+08, BPRR98, BMJ13, Cha01, CKAP07, CSC08, DC07, GG99, GAPB00, HGBH09, HMVG13, HW00, LTH99, LCC11, MOZ06, MPSJ07, OCRS07, Ped06, SPG+08, Sen11, Vah99, ZLL13, dW97, AHH+08, LV03, WLL+11].

System-Level [HKL+15, LL15, LG18, PDS12, Pie16, BdM00, GM08, PPDK09, RFG20, ZHM07, MOZ06, OCRS07, Ped06, Sen11, Vah99, ZLL13]. *system-on-a-chip* [Cha01, CKAP07]. *System-on-Chip* [HZS+19, SGGR14, APB+08, BMJ13, CSC08, WLL+11, AHH+08].

System-scenario-based [GPH+09].

Systematic
[AMM+06, SLP+19, KPR06, RPKC05].

SystemC [BK10, CVMP19, GD20, HV07, WWFT12, ZMS+19, RHA08].

SystemC-AMS [CVMP19, ZMS+19].

SystemC-based [GD20].

SystemCoDesigner [KSS+09]. SystemJ [MSR09, SPT+17].

Systems [ALLE20, BHK17, BLNK14, BJX15, BB17, BS14c, CH10a, CCH+15a, CHBK15, CYH19, DFM15, EAP17, GT21, HK18, IGN18, JHJ21, KLSZ09, KC10, KMR18, LL15, LHK+15, LZZS15, LMA+16, LL19, LZA+21, MRL+19, NSH+16, ORGD+15, PPP+15, PSN18, PG15, PBZM19, PY20, QBTM16, RFG20, RG19, RNA+21, SIC17, SPT+17, SBY+20, STWX12, SS14, SHBD21, SAL19, TB20, THT12, TL19, WLZ+19, WHRC12, WQC+16, WDLX21, XPZ+18, XGC+20, YBM+21, YRH11, ZLW+15, ZMS+19, ADM+13, AM10, ADDM+13, ARLIJH06, BDD0, BW14, CAA907, CMM00, CSL+07, Con06, CLQ12, CCL04, DCK07, DBG98, DDNAV04, DTC+09, GDGT07, GPH+09, GDF09, HKL+07, HV07, HIDL+12, HCLC98, HS00, HBC+08, JS13, JWL+03, JW88, KKMB02, KC13, KP13, KFH+08, LCZ+08, LCK+09, LSDV10, LDK99, LP07, MB01, MDG98, MHQ07, ML09, OKC08, PDXN00, PCD+01, PSL+98].

systems [Ped11, PEPP06, QS09, Rak09, RSR01, SCB01, SLXZ12, SU01, SHN12, SS11, SZV+12, THC+14, W96, Wu09, ZAJ+12, ZP08, SN10, CPX14].

Systems-on-Chip [BHK17, HL+12, KP13]. *SystemVerilog* [CV+14].


Tandem [MSR09]. Tapered [KKHK16]. Target [KG+20, KY16, PBWB21, Pom20, FS13].


TDM-based [VGG19]. Technique [CV17, JK10, JPM+19, LGGJ14, SB18, DHV+00, HLCH07, IBM07, K101, LC96, MB04, Mut09, RSR01]. Techniques [GD20, GdRJM21, MDM07, Mit16, PTC+15, TWL16, WSV+14, YD16, AM05, BD97, BdM00, BH10, BASB01, CLM+10, CAA07, CAC05, CFHM09, DS06, DD02, HPK99, HCS01, HCC01, KSK+05, KMS12, KHP05, LSDV10, LB00, LHW97, LHTC05, LV03, OCRS07, OK08, PCD+01, RJBS09, TY97, TBZ13, TY08, VMP+00, XK97, ZHOM08]. Technologies [SN10, BC08].

Technology [BFL10, CHY05, DKT+16, DBK+18, HABS15, JYJZ15, SABA15, YD16, ZS02, BL00, CH02, CH00, KL05, LK04, PL98, YW06, WSEA99, ZLL13]. technology-dependent [BLM00].

Technology-Driven [DKT+16]. TEI [LHW+17]. TEI-power [LHW+17].
**Temperature** [JGM14, LHW+17, ZYP09, ADP+07, CLQ12, DH06, WJY+07].

**Temperature-aware** [ZYP09, ADP+07, CLQ12]. **template** [HGBH09]. **Temporal** [Pie16, SSC17, YYC07, BD05, Das09, YYC09]. **Temporally** [Pie16, SSC17, YYC07, BD05, Das09, YYC09].

**Temporally** [Pie16, SSC17, YYC07, BD05, Das09, YYC09]. **Terminals** [ISE08]. **Test** [AYM05, BDBB19, EMO03, EO19, GF06, IE12, LCT03, LYS09, LM21, MCD12, NSCM17, PKJK20, Pom15a, Pom15b, Pom15c, Pom16b, Pom16c, Pom17a, Pom18a, Pom19b, Pom20, Pom21a, RJ14, SBB+18, TBZ13, WCB15, WWCT18, WH19, WH20, WLM21, WC10, WWW+12, XCW12, XLCL13, BC05, BWB14, Cha01, Che96, CCL04, ETR07, FNMS01, GM03, HLKN07, HRPO0, HJ08, IYF+21, KT01, LTH99, MD08, NCP01, NT05, PR98, PR07, PR11, QM12, RMKP03, SW04, SBC08, SEN05, SNL12, TCP07, TD03, WPHL08, WWC04, XZC09, XCW12, XLCL13, BC05, BWB14, Cha01, Che96, CCL04, ETR07, FNMS01, GM03, HLKN07, HRPO0, HJ08, IYF+21, KT01, LTH99, MD08, NCP01, NT05, PR98, PR07, PR11, QM12, RMKP03, SW04, SBC08, SEN05, SNL12, TCP07, TD03, WPHL08, WWC04, XZC09, ZMTC13, SSGS03].

**Test-Architecture** [WWCT18, XZC09]. **Testability** [LW21, Pom16a, Pom18a, FRS97, PSK08, Pom14a, SCJ01]. **Testable** [GBR07, LW21, RMP08]. **Testbenches** [BFP08]. **Testers** [NS03, SBC08]. **Testing** [LPY+20, NS03, PTC+15, TPC+17, WWCT18, WWW+12, XCW12, XS16, XCF18, JT98, KBN09, LHCT05, PKP+03, SEN05, SXZV13, SCJ01, SOC06, TD03, XZC09]. **Tests** [Pom15a, Pom16a, Pom16c, Pom18b, Pom19a, Pom19b, Pom20, Pom21a, Pom21b, DNA+12, PR09, Pom13, Pom14a, Pom14b].

**text** [LDK99]. **text-compression-based** [LDK99]. **Theft** [BTP+20]. **Theoretical** [TB20, SB98]. **Theories** [PG15, YW09]. **Theory** [MDM+12, JWL+03]. **Thermal** [CK19, CLT+15, CXH+16, CVMP19, CR12, DCK10, JGM14, LCK+09, LHW+17, LDD+18, LZA+21, MDR15, OCK19, SBY+20, SKP21, WMT+16, ZHC+18, ADDM+13, ANR13, GK14, LH13, LHZ+06, LTPT10, QSK12, WTL+13, WJY+07, YHH09, ZAJ+12, ZSZ10]. **Thermal-Aware** [SBY+20, SYX12, OCK19]. **thermal-oriented** [LHZ+06]. **Thermal-Sensor-Based** [ZHC+18]. **Thermally** [RGM15]. **thermodynamic** [VLH04]. **Things** [TK18]. **Thread** [CNQ13, SV11, KBA08]. **Thread-based** [CNQ13]. **threaded** [HC17]. **Threat** [YBM+21]. **Three** [KQP+19, RGM15, WXH+19, Yan00, Vah02, YYC07, YYC09]. **Three-Dimensional** [RGM15, KQP+19, WXH+19, YYC07, YYC09]. **Three-layer** [Yan00]. **three-step** [Vah02]. **Threshold** [CZW19, DHWV18, SV16, SHN12]. **Throughput** [HCRK11, HIW15, KJJ14, SEN15, CJLZ11, GM08, PRKK21, SK12, SHN12]. **throughput-aware** [SSK12]. **Throughput-Optimized** [HCRK11]. **Thwart** [BTP+20, LSCK20]. **Tier** [SSL17]. **tightly** [LMB+12]. **tightly-coupled** [LMB+12]. **Tightness** [APS18]. **tile** [DJP21]. **Tiled** [DK16]. **Tiled-DNUCA** [DK16]. **Time** [APDC17, BB17, CHBK15, CH17, CJKK19, FG18, HXC+18, IG18, KF16, KBP19, LM19, LSZ+21, LSCK20, NSF+16, PSNC18, PY20, SSC17, SBY+20, WLZ+19, WDGZ16, WJG+19, YRR11, ZLW+15, ZZCY17, APB+08, ARLJH06, CSAHR07, DP02, DRC98, FHHR21, HMLL11, HLKN07, HMVG13, KNK06, LCHT02, LPR+13, MR96, MHQ07, NG06, PEP06, PW99, SCB1, WGD07, WLL+11, ZA13]. **time**- [ARLJH06]. **time-constrained** [NG06, SCB01]. **time-constraints** [CSAHR07]. **Time-Division** [PY20]. **time-domain** [LTPR+13]. **Time-Multiplexed** [LM19]. **Time-Triggered** [BB17, IGN18, KBP19]. **time/resource** [WGD07]. **Times** [PMS15]. **Timing**
[CZW00, CB17, HIW15, HS19, JNCS19, KKK12, LVS16, LJ18, LWC18, LYCP17, LNG+16, LL19, MJM11, MKW08, TB20, VBP+19, WSH+18, WKC12, WL12, Yan08, YRH11, DCK09, DRG98, DH06, KPSW09, KPR06, KC98, LC14, LCHT02, MCMW08, QS09, SXX+06, SCCH08, YHL+11].

Timing-aware [MKW08]. Timing-Driven [LNG+16, CZW00, Yan08, DRG98].
timing-error [SCCH08]. Timing-Yield [WSH+18]. TinyOS [RFB10]. TLB
[KK11]. Tunable
[PSD21, YYC09]. Tuning
[HKV07, LLM01, PCC09, WVYG99].
Transforms [ACFM12, MFHP12].
Transient [KRL15, DC07, MRC06].
Transistor
[CFD+16, HCW+16, PR96, RS03, WSH+18].
Translation [JOH17, MHIQ07, LHCT05, PL03, PR96, WPHL08].
Transition-overhead-aware [MQH07].
transitions [Mut09]. transitive [YYC07].
Translation [MWS+20, WL12].
transmission [KCI3]. Transmissions
[CBO+18]. TransNet [RNA+21].
Transparency [WHRC12]. Transparent
[Pom17b, SV11, PR11]. Transparent-Scan
[Pom17b, PR11]. Transposition [CCH15b].
traversal [HRP00]. Tree
[HGLC16, KK11, KKS16, LLLL18, LNG+16, LS17, OCK19, PSD21, WCCC14, CHH09, LLHT12, LYKW09, LLLC13, TDF+09, wATkK02, Yan08, YYC09]. Tree-based
[PSD21, YYC09]. Trees
[CCH15b, EK16, GC96, WCCC03, YYC09].
Trends [CH10b, HHL14]. Triggered
[BB17, HS18, IGN18, KBP19, BDC08].
Triggering [EW18b, HW14]. Triple
[LZ17, ZLY+15]. Tristate [CK16]. Trojan
[ANS+20, LM21, MRL+20, YCL+20].
Trojans [VTC20, XFJ+16]. Trust
[GSFT16]. Trustworthy [CCM20]. TSN
[MAS+20]. TSocket [CHX+16]. TSV
[KK11, KKH16]. TSV-based [KK11].
Tunable [OK20, CFM09]. tuned [RFB10].
Tuning [PTS+20, LT11, SZV+12]. Turbo
[WSRH16]. Tutorial [Edw03]. twisted
[YW09]. Two [LZ17, OW06, TJ99, Yan19, CSCO8, DDNA04, LHZ+06]. Two-layer
[OW06, DDNA04]. Two-level [TJ99].
Two-sided [Yan19], two-stacked-die
[LHZ+06]. Two-Stage [LZ17].

UCR [YBS+18]. Ultra [ACF+11, CK16, GBC07, MACV14, SESN15, ZLG+19].
Ultra-fast [GBC07].
Ultra-High-Definition [ZLG+19].
Ultra-High-Speed [CK16]. Ultra-Low
[ACF+11, MACV14, SESN15]. UltraScale
[AMM+18]. Unauthorized
[CBO+18, GTDF17, KOO18]. Unbounded
[VS12a]. Uncertain [KW16]. uncertainties
[CS07]. Uncertainty [GC18, STGR15].
Unclonable [CSC+21, YBS+18]. Uncore
[WGSH16]. Understanding [HHL14].
Undetectable [Pom19b]. Unicast
[XS16, XCF18]. Unicast-Based
[XS16, XCF18]. unified
[Kag05]. Uniform
[HZS+19, KCKG16]. Unique
[SOS15]. UNISIM [LS11]. UNISIM-Based
[LS11]. Unison [SGJ96]. Unit
[BM11, HWCL15, HWCL13].
Unit-Capacitor [HWCL15]. Universal
[CBW96, CJKK19, JCK+18, FLWV02,
FLWC07]. universality [RHN00].
Unknown [SSO16]. Unknowns
[EKS+14]. Unnecessary [Pom15c].
unpredictabilities [DS05]. unpredictability
[SPG+08]. unscheduled
[MHF96]. Unstructured [VTC20].
Untangling [Yan19, YW09]. untestable
[LIA00]. UPaK [WKR09]. Update
[KC10]. Upper [JLJ15]. upset [NdLCR03, RM09].
upsets [MRB+11]. Use
[KBV+15, KFH+08, MS00]. use-cases
[KFH+08]. Useful [TCW20]. Using
[APDC17, APD+11, ASAP17, AV199.
AGM01, BBEM15, BDB12, BS14b, BM11,
BUS19, CM19, CAOM19, CYV+14,
CJJK19, DNA+12, EW18a, EW18b, EK16,
FWCL05, FHHR21, FYCT15, GF16,
GBR07, GNIGT21, GD20, GHR19, HS18,
JNS+17, JSS+19, KQP+19, LHS20, LLH+17,
LFST21, LYHL14, LYS019, LSCK20,
LLK+14, LCC+15, LM21, MA16, NPH+20,
PJL14, PMT20, PG15, PR09, Pom15a,
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