Title word cross-reference

2 [CJ14a, CV12, HYWA09]. 3 [BCT13, CJ14a, CH14, FRB08, KSB+08, KYEB15, LKC15, SKRX13, TJ13b, TJS14, XLBB06, XCF08, XDX14, XPD12, ZJS10, ZMC15]. 4 [LCSP14]. \( \kappa \) [MP10]. \( \mu \) [RFDT15]. \( T \) [YYC07]. \( \Theta(\sqrt{n}) \) [CV12]. \( V_{th} \) [MP10].

-Bit [LCSP14]. -D [HYWA09]. -depth [CV12]. -tree [YYC07].

/high [MP10]. /high- [MP10].


alive [ABS+12]. All-Spin [VSRR15]. allocation [WWJ09]. alternate [LBGR08]. Alternative [RMK15]. ALU [SDS114].

Analysis [GRPT13, GFZ13, GPW+15, KYEB15, NLK+13, CCTP08, CSKM13, CWT14, DWL10, HCTK08, KSG14, PFOL07, RBGC14, ZFT13]. Analytical [KYEB15]. Annotation [PPP+13].

Application [DKK+15, Tah06, AMVG12, XS14]. Application-independent [Tah06]. Application-Specific [DKK+15]. applications [MFA+13, PFOL07].

Approach [BM15, BS15, DRSR14, JRLR15, ZGSA15, CQZK14, RT08, SZSS10].

Arbitrary [Mog14]. Architectural [VO06].

Architecture [CNHL08, DPB11, JOF+15, SGR+12, WX15, CQZK14, CV12, CA11, MTC+08, Moh12, PDL06, PDL07, SCL+09, TGL10, TCSV09, ZJS09, ZJS10, ZJS09b].

architecture-level [Moh12].

Architectures [AMF+15, CCWCC15, GCO+11, LGL15, RMG15, Shu09, BPH+11, CDG+12, Deh05, FGZ14, KWFH12, WVV13, XLBB06, ZMT13]. area [RT07].

Arithmetic [VM08, Gla14]. Array [LYWW13, MTC+08]. Arrays [CEW+13, CCTP08, CSKM13]. Artificial [DMM+15]. Assays [GC14]. assembled [GRS05]. assignment [SLX+14, ZS08].

Associated [GCO+11]. Associative [CCWCC15].

Asynchronous [GRPT13, SM11, VGZ11, ZXY11, CB09]. Asynchrony [SN11]. Automata [DPB11, DWL10].


ballistic [HYWA09, PFOL07]. Barely [ABS+12]. Based [DKK+15, GCO+11, GRPT13, HC15, LPB+15, MPM13, NPA+12, OBLD14, SGR+12, SSF+15, TMS+14, VSRR15, WX15, YXW+12, ZJ11, ZF15, CZ05, CHN09, DMR06, Deh05, GD12, GLA14, HMS+05, LJ10, MN06, SZS10, SC06, TCSV09, TR13, WZSC09].


Binary [CCWCC15, TR13]. biochemical [RBGC14]. Biochips [GCB14, MPM13, CZ05, DJRM09, DDM+06, RMBC12, RBGC14, SC06, SC08, XHSC07, XC08, YYY07]. Bioinformatics [Gui13]. Biology [Dea14, FHFK14, HD14, MH14, MSW14, OBL14, VMV13].


choices [Nar05]. Chronic [MGS+12].

Circuit [DRSR14, GRPT13, KHR+15].
BJ10, DLWW08, KCC+14, MRH12, MMJ09,
Moh12, SZSS10, XDX14, YWH+13.
Circuits [AMF+15, BM15, BS15, Che15,
CV11, DD14, DNHL11, HM14, HLS14,
HN12, KZW+15, LCSP14, MZR+14, MJ11,
PLC+13, SM11, TJ13b, TSB15, VGZ11,
BCT+13, HZY+12, KT14, LRN05, LWH14,
LJ14, MHL08, MN06, PSM+06, Sek07,
TR10, TR13, WFCX09, XCF08].
Classical [DD14].
Clock [CH14, Che15, ANR+14, MRH12, XPD12].
Clock-Controlled [Che15].
Clock-Tree [CH14].
Clocking [SSF+15].
Clockless [MJ11].
Closed [SSN12].
Closed-Loop [SSN12].
Cloud [PHS+15, AMA+14].
Clustering [DRSR14].
Clusters [PPM+13, RT07].
CMOS
[CB09, Che15, HN12, HLFH+12, KHR+15,
MP10, Nar05, RT07, RYT+07, SCI+09,
SXL+12, ZC07, MRR12].
CMOS-nano [CB09].
CMOS+ [MRR12].
CMOS/molecular
[RYT+07].
CMPS [SKRX13].
CNFET [PFOL07].
Code [HH11].
Cofactor [SSP14].
Cognitive [KZL15].
Color [LM13].
Combination [VMV13].
combined [ZFT13].
Communication
[LG15, LMC+11, SX11].
compact
[DLWW08].
Compatible
[KCD15, KCC+14].
compensation
[MRH12].
completion [MNT14].
Complex
[VWP03].
Complexity [GR+12].
Composable [MHW14].
Computation
[CVK15, YWH+13, WDT14].
Computational [MSW14].
computer
[CV12].
Computers [JRL15].
Computing
[DMYT15, BN15, JRL15, KZL15, LGL15,
NV14, SDSS14, AMA+14, KMD12, KT14,
MHL08, McK07, PG12, VO06, WZSC09,
WDH+09, YW13].
configuring [RT08].
Congestion
[MKW+14, RMBC12].
Congestion-Aware
[MKW+14, RMBC12].
Connections
[LKC15].
Conservative [PPM+13].
consideration [LWH14].
Considerations
[MRR12, BJ10, WOW+10].
considering
[RYT+07, SLS+14].
Constants [Mog14].
constrained [HSC+07].
constraints
[CNHL08, HSC+07].
Consumption
[LYWW13].
Control [GCB14, ZJC+10].
control-path [ZJC+10].
Controlled
[Che15, DNHL11, HZSA14, SXL+12].
Converter [TSS14].
Core [DMYT15].
Correlation [AAMF13].
Cosine [DBG+14].
Cost [LCSP14, LGR08, TR10].
CPDI
[XD14].
Critical [CWT14].
Critical-reliability [CWT14].
criticality
[YWH+13].
Cross
[BS15, DKK+15, LYWW13, PRG+15, SS15,
ZGSA15, XDX14].
Cross-Layer
[BS15, DKK+15, PRG+15, SS15, ZGSA15].
Cross-Point [LYWW13].
cross-power
[XD14].
Crossbar
[KZL15, WDW13, YL14, CQZ14, Tah09, ZMT13].
Crossbars
[PDL15].
Cubes [DRSR14].
Current
[RFD15].
Cycle
[ZF15, SS10].
Cycle-Accurate [ZF15].
cycle-based
[SZSS10].
Cycles
[JRL15].
cyling
[GD12].
D
[CV12, BCT+13, CJ14a, CH14, FRB08,
HYWA09, KSB+08, KEB15, LK15,
SKRX13, TJ13b, TSS14, XLB06, XCF08,
XDX14, XPD12, ZJ10, ZMC15].
D-IC
[CH14].
DAC
[CS07, LC08].
DAHM
[AMVG12].
Data [HH14].
DC
[PK14].
Deadlock-Free [LKC15].
decision
[GL14].
decomposition
[HZA14].
Defect
[GUP11, WDW13, YL14, DVL10,
PDL07, SCI+09, Tah06, Tah09, TW10,
XC08, YC07].
Defect-Aware
[GUP11].
Defect-Free
[YL14].
defect-tolerant
[YC07].
defect/error
[TW10].
defect/error-tolerant
[TW10].
Defects
[CHN09].
degradation
[Edi14, SLS+14].
Delay
[GL14, CWT14, TR10].
Delay-based
Delivery [HLH+12, ZSXY11, ZS08]. Demand [HLH+12]. dependability
[PUBV07, TG07]. Dependence [NPA+12].
Dependent [AMF+15, ZWL+15]. deposited [BPH+11]. depth [CV12].

Design
[CB09, CDG08, DMR06, DLWW08, Gla14, TR13, TSB15, WOW+10, ZJS09a, ZGSA15, BJ10, BCT10, CB09, CDG+12, CJ14b, CNHL08, DMR06, DLWW08, Gla14, GRS05, HML+11, HYZ+12, KP10, LBG08, LMC+11, MLK+08, MRH12, MN06, Nar05, OSL06, RMBC12, SXL+12, WFCX09, XDX14, XHSC07, ZC07, ZXC10, ZJS09c].
design-considerations [BJ10]. Designing [DBG+14, RYT+07, TKBM12]. Designs [TZS14, ANR+14, ZS08]. Detection [SGR+12, ZFT13]. Device
[BJ10, CJ14a, HD14, Edi14, RYT+07]. Devices [GBLD15, NPA+12, PDL15, JRC+13, MHL08, RT08, YW13]. diagnosis [DJRM09, DDM+06]. Diagonal [HZSA14].
diagram [LJ14]. Digital [Che15, GCB14, HM14, HSL+14, KZL15, PPM13, DJRM09, DDM+06, KT14, RMBC14, RBGC14, SC08, XHSC07, XCO8, YYC07, ZXC10]. dilution [RBGC14].

Dimensional
[GUP11, MLK+08, WFCX09, XSI14]. diode
[BJ10, DMR06]. diode-based [DMR06].
diodes [LM13]. displacements [SWJ07]. dissipation [MHL08]. Distance [CV11]. distributed [AMVG12, STA+12, VMN10]. distributed-memory [VMN10].
distribution [XPD12]. DNA
[MT14, SKB13]. domain [XDX14]. Dot
[DPB11, DWL10, WDH+09]. DPA [Z11].

DRAMs [BJ10]. driven [GMM12, XSI14].
driver [HCTK08]. Droplet
[PM13, XHSC07, XCO8]. Droplet-Aware
[PM13]. droplet-interference [XHSC07].

Drug [HLH+12]. DSP [TWL09]. Dual
[MFA+13, MP10].
duty [GD12]. DVFS [MKW+14, ZF15]. DWT
[SGR+12]. Dynamic [CThG15, JOF+15, MRH12, ZMC15, AMVG12, WWJ09]. dynamically
[ZJS09a, ZJS09c, ZJS09b, ZJS10].

Early [Ko12, ZGSA15]. Early-Stage
[ZGSA15]. ECG [SCZ+12]. Editorial
[CS07, Cha10, IN05, McK07, Nar08, TSB15, XCF08, Shn09]. Effect
[CV11, LYYW13, XPD12, HZY+12]. effects
[MLK+08]. Efficiency [TKBM12, ZS08].

Efficient [DJRM09, HN12, LKC15, NV14, SDSS14, VSRR15, ANR+14, GD12, KSB+08, PT12, TR13, SM11]. Elastic [PHS+15].

Elasticity [GOGCK11]. Electric [RFDT15].

Electroencephalography [TKBM12].

Electron [CEW+13, HYWA09]. Electronic
[YYW+12, JRC+13]. Electronics
[BY12, Ko12, HCTK08, WZSC09].

Electrostatic [GPW+15]. electrostatics
[KTW08].

Electrothermal
[CSKM13, HLH+12]. elements [CW08].

embedded [MCT10]. Embryonics
[TMM+07]. Emerging
[DMY15, GBLD15, KZP+15, TSB15, WZSC09, BC08, Edi14, PUBV07]. enabled
[WVGP13]. Encoding [ZWL+15].

Energy [DNHL11, GD12, LKC15, LYWW13, RFD15, STA+12, TKBM12, VSRR15, ZXY+11, KMD12, KSB+08, KP10, MHL08, MCT10, SMR+12, WOW+10, WCSSA10, SM11]. Energy [STA+12].

energy-adaptive [KMD12].

Energy-Efficient
[LKC15, VSRR15, GD12, SM11].

Energy-Neutral [LPB+15]. enhancement
[SC06]. Enhancing [KMD12].

environment [OSLT06]. Epilepsy [SN12].

Epileptic [SGR+12]. equation [KTW08].

error [LWX+14, ZXC10]. errors [SKH+13].

ESOP [DRSR14]. Estimation [CMJ14].

Eucalyptus [AMA+14]. Evaluating
[RT07]. Evaluation


Highlights [DR11]. Highly [HN12]. History [Ko12]. hosting [AMVG12]. HW [JRLR15]. HW/SW [JRLR15]. implementation [HH11, LWM+14, PHS+15, WDW13, CB09, CJ14b, LBGR08, LMG+11, RT07, SCI+09, ZJS09a, ZJS09c, ZJS10].


Locally [DNHL11]. Logic [CJ14a, CNH12, GCO+11, GUP11, LCSP14, PT14a, SSP14, VGGZ11, ANR+14, CJK14b, DJ08, HNS+05, LJ14, LTC08, MTC+08, PT12, TR13, ZMT13]. logic-based [TR13]. Loop [SS12]. Loss [HLS14]. Low [Che15, GBDL15, GLMG+15, KZ+15, KHR+15, MGS+12, MMJ09, PRG+15, SGR+12, SSF+15, Tah09, TSB15, ZJS10, ZJ11, ABS+12, CJK14b, CA11, KT14, LBGR08, LMC+11, MFA+13, WD+09]. low-cost [LBGR08]. low-latency [CA11]. Low-overhead [Tah09]. Low-Power [BDL15, GLMG+15, KHR+15, PRG+15, SGR+12, MMJ09, ZJS10, ABS+12, KT14, LBGR08, LMC+11, WD+09]. Low-Swing [SSF+15]. LTPS [LBGR08].

Memristive [CZQK15, GLMG+15, KZL15, MRR12, YW13]. mesh [EWKNW07].
meshless [KTW08]. Method
[GCS+11, ZSY11, MHM+08]. Methodology [CMJ14, CH14, CB09].
Methods [CZQK15, CCTP08]. metric [SMR+12]. Microarchitectural
[GOGCK11]. microarchitecture [MLK+08].
Microarrays [SKB13]. Microdevices [VMV13]. Microfluidic
[GCB14, HD14, MPM13, DJRM09, DDM+06, RMBC12, RBGC14, SC08, XHS07, XC08, YYC07, ZXC10].
microfluidics [CZ05, SC06]. microfluidics-based [CZ05, SC06].
Millimeter [MKW+14, KK12]. Millimeter-Wave [MKW+14]. Minimum
[LCSP14]. MINLP [BM15]. Mitigation [NLK+13]. mixing [RBGC14]. MN
[PHS+15]. MN-MATE [PHS+15]. mNoC [PDL15]. mobile [WDH+09]. Model
[BM15, CCWCC15, MZ+14, DIWW08, MHL08, MTC+08, ZC07]. Modeling
[MN06, SSN12, TKBM12, ZF15, KCC+14, KSG14, PFOL07]. Models
[KCD15, MHW14, FRB08]. Modular
[MHW14]. Modularization [FHFK14]. Module
[MPM13, LCJ14, ZS08]. Module-Based [MPM13]. Molecular
[CNHL08, DBP11, GPW15, PD15, WDW13, KSG14, KTW08, MHL08]. Monitoring
[MGS+12]. monolithic [BCT+13, XDX14]. MOS [KZW+15].
multi-peak [LM13]. Multi-Processors [PRG+15]. multicomputer [VMNI08].
Multicore
[PCD+11, ZMC15, KWFH12, SLS+14]. multidiscipline [Moh12]. Multilayer
[HC15, MHM+08, BPH+11]. Multilevel
[MRR12, VSRR15, CWL+13, FGZ14]. Multiple
[DDM+06, HZSA14, MMJ09]. Multiple-Controlled [HZSA14].
Multipliers [Mog14]. Multiprocessor
[YXW+12, CJ14b, GMM12, LWX+14]. multiprocessors [BPH+11, CA11].
Multistate [KHR+15]. multiwalled
[SXL+12]. mW [WOW+10].

NANA [PDL06]. nano [CB09, LDL10, MP10, PDL06, SCI+09, ZMT13, ZS10, ZC07, MRR12, ZJS09c, ZJS09a, ZJS09b].
nano-architectures [ZMT13].
nano-CMOS [MP10, SCI+09, ZC07]. nano-scale [LDL10, PDL06]. nano/
CMOS [ZJS10, ZJS09c, ZJS09a, ZJS09b].

NANOARCH [Bah09]. NANOARCH07 [Shu09]. NANOARCH’09 [DR11].
nanoarchitectures [Tah06, Tah09]. Nanoarray [FGZ14, GRS05].
nanocomputing [WWJ09]. Nanocrossbar [GUP11]. Nanodevice
[GCO+11]. Nanodevice-Based [GCO+11].
Nanodevices [CZQK15]. Nanoelectronic
[YL14]. nanofabrics [SMR+12]. Nanophotonic
[BPB+12]. negative [KCC+14].

Nanomagnet [CNHL2]. Nanoelectronic
[VD11]. nanometer [CQZK14, EWKNW07, Nar05, RT07, RT08, WZSC09].
nanoarchitectures [HYWA09].
nanomaterials [ZMT13]. Nanoscale
[JRC+13, NLK+13, Shu09, CQZK14, EWKNW07, Nar05, RT07, RT08, WZSC09].
nanophotonic [BPB+12]. Nanosystem
[HYWA09].

Nanoscale
[JRC+13, NLK+13, Shu09, CQZK14, EWKNW07, Nar05, RT07, RT08, WZSC09].
nanoarchitectures [HYWA09].
nanosystem
[HYWA09]. Nanotube [GRPT13, HC15, DLWW08, HZY+12, MN06, SXL+12].

Nanotube-Based [PRG13, MN06]. Nanowire
[Deh05, RK15]. Nanowire-based [Deh05]. nanowires
[SRD+06]. NBTI
[KCC+14, LSH14, SLS+14, YWH+13].
NBTI-aware [YWH+13]. Near [NPA+12].
Near-Field [NPA+12]. negative [KCC+14].

NEMS [HN12]. net [BPH+11]. net-zero
Network [CCWCC15, PDL15, BPH+11, CDG+12, LMC+11, PDLs06, PT14b, WVGP13, ZFT13, YXW+12].
network-enabled [WVGP13].

Network-on-Chip [PDL15, BPH+11, CDG+12, WVGP13, YXW+12]. Networks
[CTP14, Dea14, KCD15, LPB+15, GD12, LJ10, LDI10, LWX+14, XPD12].

Networks-on-Chip [CTP14]. Neural
[CThG15, CCWCC15, KCD15]. Neuro
[CZqk15, CQZK14]. Neuro-Inspired
[CZqk15, CQZK14]. Neuromorphic
[AMF+15, HN15, KZL15, KCD15, RMG15, ZWL+15]. Neutral [LPB+15]. Next
[GFZ15]. NML [DNHL11]. NoC
[KYEB15, MKW+14, ZF15]. NoC-Based
[ZF15]. NoCs [LKC15]. Node
[PHS+15, YWH+13]. Nodes [LWM+14].
Nonhierarchical [PPM+13]. Nonvolatile
[Hc15, SCZ+12, SRKR13]. Novel
[SKB13, Tzs14, ZSXY11, RT08]. NTC
[Cv12]. Number [HH11].

off [ZFT13]. off-chip [ZFT13]. Offline
[MT14]. offs [CDG+12]. On-Chip
[CZQK15, LWM+14, Tzs14, CWL+13, LWX+14, CA11, LMC+11]. Operation
[MPM13]. Operations [CVK15]. Optical
[NPA+12, YXW+12, CA11].
Optical-Electronic [YXW+12].
Optimization [DKK+15, ZGSA15, DLWW08, LWH14, WFCX09, ZJS09c].
optimizations [CW+13]. Optimized
[CCWCC15, ON15]. optimizing [TR10].
Organizing
[DK9, RGM15, LDL10, PDL07]. oscillator
[SXL+12, ZFT13]. outputs [TR10].
Overhead [ZJ11, Tah09].

p [DPB11]. p-QCA [DPB11]. Papers
[SN10]. paradigm [LBGR08, WZSC09].
Parallel [Dea14, DJRM09, STA+12].
Parallelism [JOF+15, GN08]. parameter
[RYT+07]. Parametric [FRB08]. Part
[ZJS09c, ZJS09b]. Partial [LKC15].
Partitioning [LRN05]. path
[CWT14, ZXC10]. paths [ANR+14]. Pauli
[HSA14], peak [LM13]. [MRR12]. ACM
[Shu09]. Bitline [LYWW13]. CMOS
[ZJS10, ZJS09a, ZJS09c, ZJS09b].
defect-tolerant [ZMT13]. Delay [CMJ14].
error-tolerant [TWL09]. high-
[MP10].
molecular [RTY+07]. SW [JRLR15].
TODAES [BC08]. Peres [DJ08].
Performance
[CDG+12, DNHL11, LYWW13, MKW+14,
ON15, Bea11, BPH+11, DLWW08, LMC+11,
LCT12, MN06, PFOL07, RT07, STA+12,
WWJ09, SM11]. performance-aware
[STA+12]. phase [JRC+13]. Photonic
[BPH+11]. photonics [Bea11]. physical
[BCT+13, HZ+12]. PicoServer [KSB+08].
Piezoelectric [RFDT15]. pillar [MFA+13].
pin [XHSC07]. pin-constrained [XHSC07].
Pipeline [SM11]. PLA [CNH12].
Placement
[BM15, LWH14, YYC07, LRN05]. PLAs
[CHN09]. Plasticity [AMF+15]. Point
[LYWW13, NV14]. Policies [ON15].
Pooling [ZMC15]. portability [GN08].
post [XS14]. post-bond [XS14]. Power
[Che15, GBDL15, GLMG+15, HN12,
JRLR15, KZW+15, KHR+15, LWM+14,
MGS+12, PRG+15, SGR+12, TSB15, ZJ11,
ZXY11, ZGSA15, ZF15, ABS+12, ANR+14,
GMM12, KT14, KK12, LJ10, LBGR08,
LMC+11, MMJ09, MP10, MFA+13.
WDH09, XDX14, ZS08, ZJS10, ZFT13].
power-efficient [ANR+14]. Power-Gating
[HN12, ZF15]. Powered
[JRLR15, WCSSA10]. Powerful [VMV13].
pre [XS14], pre-bond [XS14]. Predictive
[DKK+15, ZC07]. Pressure [MGS+12].
Primitive [GRPT13]. primitives
[HMS+05]. Proactive [PRG+15].
Probabilistic [KSG14, KT14]. Probes
[SKB13]. problem [EWKNW07]. Process
[GPW+15, KAKSP14, XPD12]. processing
processing-in-wire

productivity

rejuvenation

Reliable

redundant

redundancy

redundant

Reliability

reliable

Replacement

resilient

Resource

Resource-Efficient

Reversible

replugging

Realizing

Reasonable

Reconfigurable

Quantifying

quantum

QuickRecall

Radial

Radix

RAM

random

Realtime

Real

Realization

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