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## Title word cross-reference

+ [GL08]. 2 [BPCC09, LP15]. 3 [JB15, SPS12, TZWZ15]. *k* [TK16]. *QR*  
[ZCL16].

-**D** [SPS12]. -**Means** [TK16].

**11th** [AC14]. **15th** [DH08]. **19th** [GC13].

**2.1** [JRHK15]. **200** [WBR16]. **2007** [AN09]. **2009** [Che11, WBAM10]. **2011**  
[Hüb12]. **2013** [CDM15]. **2014** [BAG15, DB15, GSCB15, RVHP16, SB15].  
**2015** [CS17]. **256** [MAK<sup>+</sup>12].

**5** [AKA09]. **5.0** [LKJ<sup>+</sup>11].

**7.0** [LGW<sup>+</sup>14]. **7th** [VG14].

**A-Port** [PVA<sup>+</sup>09]. **Abstraction** [IBH<sup>+</sup>15]. **Abstractions** [IPC14].  
**Academic** [MWL<sup>+</sup>15]. **Accelerated** [MCC10]. **Accelerating**  
 [JLB<sup>+</sup>08, TZWZ15, VL11, ZG16]. **Acceleration**  
 [CAPA<sup>+</sup>09, CBR<sup>+</sup>14, CZ09, KLC11, PFC15, PBPLA17, TK16, WMG<sup>+</sup>10,  
 XCG<sup>+</sup>09, YOY17, YBS16, ZBR12]. **Accelerator**  
 [LDJ<sup>+</sup>17, YEC<sup>+</sup>09, ZZJB13, YXC<sup>+</sup>11]. **Accelerators** [JRHK15, UNBR14].  
**Accesses** [PFC15]. **Accumulator** [WS16]. **Accuracy** [LP15, UNBR14].  
**Accurate** [CSK17, JM14]. **Adaption** [BHI15]. **Adaptive**  
 [CNE<sup>+</sup>15, INF<sup>+</sup>14, JCG<sup>+</sup>12, NNY12, OVI<sup>+</sup>12, PMC<sup>+</sup>14, Tak17, ZCL15,  
 Tak12, DGP<sup>+</sup>15]. **Adders** [HU10]. **Adding** [PSM<sup>+</sup>14]. **Addition**  
 [CAPA<sup>+</sup>09, OBD13]. **Addition-Related** [OBD13]. **Adjustment** [NW11].  
**adventure** [RD11]. **Aerial** [CZ09]. **Aerospace** [WGGR16]. **AES**  
 [DGP10, HF14]. **against** [LOM10]. **Agent** [GMBC17]. **Algorithm**  
 [CBR<sup>+</sup>14, EWL15, RLY<sup>+</sup>15, Ste10, TL11, TK16]. **Algorithm/Architecture**  
 [EWL15]. **Algorithms** [CW09, LRA13, NSS<sup>+</sup>11]. **Alignment**  
 [JLB<sup>+</sup>08, MCC10, OBD13]. **Altera** [SMOP15, TK16]. **Amenability**  
 [HNG09]. **Analysis** [BPF11, CFBS15, CKG<sup>+</sup>10, MMT09, PPR<sup>+</sup>10,  
 RGGW10, RGCL16, RMSK16, SB08, GP13, Tak12]. **Analytical**  
 [KSCC10, LAL13, DW13, HGLS11]. **Analyzing** [GSJC13]. **Application**  
 [ABCC09, BBND10, CM14, DDB<sup>+</sup>10, GdLIG<sup>+</sup>14, JSC14, KGS15, LJS11,  
 MWK<sup>+</sup>12, PMKM11, RUC11, VTN09, WYZ16, WMG<sup>+</sup>10, YFW<sup>+</sup>17, SSF<sup>+</sup>13].  
**Application-Optimized** [YFW<sup>+</sup>17]. **Application-Specific**  
 [PMKM11, LJS11]. **Applications** [CFBS15, CKG<sup>+</sup>10, GKM<sup>+</sup>12, KBM09,  
 KCC<sup>+</sup>14, LZP<sup>+</sup>10, LBRS16, NJLW14, PSM<sup>+</sup>14, PVB13, WHQ<sup>+</sup>08, KSG11].  
**Applying** [NSS<sup>+</sup>11]. **Approach** [CM14, KM10, MWK<sup>+</sup>12, NBS13, SBC15].  
**Approaches** [MVGB15, SAD10]. **ARC**  
 [BAG15, DB15, GSCB15, SB15, WBAM10]. **ARC'08** [CWBD09].  
**Architecture** [ATJZ16, BCE<sup>+</sup>10, CXG<sup>+</sup>12, DS15, FT17, GMBC17, IZO<sup>+</sup>10,  
 IBH<sup>+</sup>15, KLD16, KSCC10, KAL14, LGW<sup>+</sup>14, OWMZ11, PFC15, SBC10,  
 SB15, Tak17, VL11, WS16, XJD<sup>+</sup>16, ZCL16, DW13, LKJ<sup>+</sup>11, Oli12].  
**Architectures** [BBND10, CBC<sup>+</sup>12, DSB09, GC13, JTLC09, LAL13, HLL08].  
**Area** [DD15, Tho15]. **Area-Efficient** [DD15, Tho15]. **ARISE** [VTN09].  
**Arithmetic** [SCC10]. **Array** [SLH<sup>+</sup>10, ZCL16]. **Arrays** [SCC10, ZH12].  
**Artificial** [KAL14]. **ASIP** [EWL15]. **Assembly** [BGSL17]. **Assignment**  
 [SB08]. **Associative** [DD15]. **Assurance** [KMK<sup>+</sup>10]. **Asymmetric**  
 [SDG12]. **Atmospheric** [GFL<sup>+</sup>15]. **Attack** [SGM09]. **Automata** [MHS09].  
**Automated** [RMSK16, SCC10]. **Automatic** [YBS16]. **Automatically**  
 [LP15]. **Automating** [NCJ<sup>+</sup>15, YFW<sup>+</sup>17]. **Automation** [SV09].  
**Autonomous** [BMR16, DVK15]. **Avionics** [LZF<sup>+</sup>10]. **avoidance** [RD11].  
**Aware** [BAG15, BKT14, HNS<sup>+</sup>10, LCS14, NJLW14, SB08, EA11, KSG11].  
**Awareness** [AHL<sup>+</sup>14, Bec14, DGP<sup>+</sup>15].  
  
**Bandwidth** [BBND10, SLH<sup>+</sup>10, USY17, BC11]. **Bandwidth-Reduction**  
 [SLH<sup>+</sup>10]. **Based**

[AL16, BAG15, CBFM14, CZ09, DGP<sup>+</sup>15, DL09, EWL15, GDHG11, GHO17, HLN<sup>+</sup>10, JCG<sup>+</sup>12, JTLC09, Kap16, KBT09, KD10, KGS<sup>+</sup>12, LBRS16, LT09, LL12, MVGB15, NNY12, OVI<sup>+</sup>12, PPR<sup>+</sup>10, RC10, SLH<sup>+</sup>10, SB15, USY17, WGGR16, YOY17, ZCL16, ZBC<sup>+</sup>09, ZBB<sup>+</sup>16, EA11, HLL08, LZF<sup>+</sup>10, MBJJ11, Ste10, YXC<sup>+</sup>11, ZBR12, KP14, UNBR14, ZZJB13]. **Behavior** [PVA<sup>+</sup>09]. **Benchmarks** [MWL<sup>+</sup>15]. **Benefits** [PSM<sup>+</sup>14]. **between** [LW08, MWL<sup>+</sup>15, TOS17]. **Big** [RMSK16]. **Binary** [PFC15]. **Biomedical** [KCC<sup>+</sup>14, YBS16]. **Bits** [DVK15]. **Bitstream** [BPDF11, SMOP15]. **BLASTP** [JLB<sup>+</sup>08, MH15]. **Block** [BDGH15, CBFM14]. **Block-Based** [CBFM14]. **Blocks** [FK08, PMKM11]. **Boltzmann** [KAL14]. **bottleneck** [KSG11]. **Bound** [MHS09, RLM<sup>+</sup>17]. **BRAMs** [DGP10]. **Branch** [RLM<sup>+</sup>17]. **Broadcast** [PSM<sup>+</sup>14]. **Buses** [HBA<sup>+</sup>15].

**Cache** [SDG12]. **CAD** [KA17, LKJ<sup>+</sup>11, LGW<sup>+</sup>14, MWL<sup>+</sup>15]. **Capabilities** [GFBF12]. **Capability** [LZF<sup>+</sup>10]. **Capable** [BMR16]. **care** [MBJJ11]. **Carlo** [TB10]. **Carry** [PABI09]. **Cartography** [SGM09]. **case** [NSS<sup>+</sup>11]. **CDO** [KLC11]. **Cell** [IZO<sup>+</sup>10, KA17, PABI09]. **Cellular** [MHS09]. **centric** [VG14]. **CGRA** [VL11]. **CGRAs** [CM14]. **Chain** [PABI09]. **Channel** [SG15]. **Characterization** [WMG<sup>+</sup>10]. **Check** [DL09]. **Checking** [PD15]. **Chip** [AB14, CTH16, CSK17, GMBC17, GdLIG<sup>+</sup>14, GS10, HBA<sup>+</sup>15, JSC14, LL12, VG14, GNM<sup>+</sup>15]. **Choose** [RD11]. **Choose-your-own-adventure** [RD11]. **Cibola** [QRDC<sup>+</sup>15]. **Circuit** [DVH<sup>+</sup>15, LL12, WSC09, GL08]. **Circuit-Switched** [LL12]. **Circuits** [BMR16, CBC<sup>+</sup>12, DL09, SC08, SV09, Ste10, WBR16]. **clock** [LW08]. **Clocking** [DB15]. **cluster** [GNM<sup>+</sup>15]. **Clustering** [LRA13, EA11]. **Clusters** [FK08]. **Co** [EWL15]. **Co-Exploration** [EWL15]. **Coarse** [VL11, XJD<sup>+</sup>16]. **Coarse-Grained** [VL11, XJD<sup>+</sup>16]. **Code** [DVH<sup>+</sup>15, DC16, GRG08, ZG16]. **codesign** [SC11]. **Coding** [BAG15]. **CoEx** [EWL15]. **Coherency** [SDG12]. **Column** [VL11]. **Column-Oriented** [VL11]. **Combinatorial** [WSC09]. **Combined** [PP10]. **Commercial** [MWL<sup>+</sup>15, PANBI11]. **Communication** [HNS<sup>+</sup>10, KLD16, TL11, VG14, HZW<sup>+</sup>13]. **Communication-Aware** [HNS<sup>+</sup>10]. **Communication-centric** [VG14]. **Communications** [BNW<sup>+</sup>10]. **Comparison** [BNW<sup>+</sup>10, LA17]. **Compatible** [LT09]. **Compilation** [BPDF11, MWK<sup>+</sup>12, UAS16]. **Compile** [PPR<sup>+</sup>10]. **Compile-Time** [PPR<sup>+</sup>10]. **Compiler** [HLC<sup>+</sup>15, ZG16]. **Complexity** [FRS<sup>+</sup>15]. **Component** [SCC10]. **Components** [ATJZ16, DC16]. **Composing** [LLO<sup>+</sup>14]. **Comprehensive** [JCG<sup>+</sup>12, GP13]. **Compression** [GRG08, PP10, USY17, IYY<sup>+</sup>11]. **Compression/Decompression** [PP10]. **Compressor** [CAPA<sup>+</sup>09, PABI09, PANBI11]. **Computational** [RGCL16]. **Compute** [MHS09]. **Computer** [LYS<sup>+</sup>08, NSS<sup>+</sup>11]. **Computers** [SPM<sup>+</sup>10, THK12]. **Computing** [Bec14, CH10, CKG<sup>+</sup>10, EAGEG09, HNS<sup>+</sup>10, JCG<sup>+</sup>12, MH15, RGGW10, USY17, UAS16, WGGR16, dDELVP13, KSG11]. **Conference** [AC14, LAA<sup>+</sup>17]. **Configurable** [PABI09, WS16]. **Configuration**

[DVK15, HBA<sup>+</sup>15, KD10]. **Configurations** [MHK<sup>+</sup>08]. **Congestion** [CTH16]. **Conjugate** [RC10]. **Connected** [ATJZ16]. **Consideration** [TL11]. **Considering** [SC08]. **Constant** [HCOB13]. **Constraint** [MWK<sup>+</sup>12]. **Constraints** [BAMR10, INF<sup>+</sup>14, LP15]. **Construction** [YFW<sup>+</sup>17]. **Context** [BMR16, NW11]. **Context-Switch** [BMR16]. **Control** [NW11, ZG16]. **Control-Intensive** [ZG16]. **Controller** [GdLIG<sup>+</sup>14]. **Convolutional** [LDJ<sup>+</sup>17]. **Coordination** [ASGY12, PMC<sup>+</sup>14]. **Coprocessor** [GS10]. **CORDIC** [ZCL15, ZCL16]. **CORDIC-Based** [ZCL16]. **Core** [IZO<sup>+</sup>10, WMG<sup>+</sup>10, SGNB08]. **Correlation** [GSJC13]. **Cost** [TL11, PDH11, ZH12]. **Countermeasure** [MMMT09]. **Counters** [LT09]. **Counting** [FK08, PBPLA17]. **CPUs** [TOS17]. **Creative** [MCL<sup>+</sup>13]. **Cryo** [TZWZ15]. **Cryo-Electron** [TZWZ15]. **Cryptographic** [BDGH15, SGM09]. **Cryptography** [GFBF12, KBM09, SG15]. **Curve** [GPP08, KBM09, SG15]. **Curve25519** [SG15]. **Custom** [GRG08, LCS14, TOS17]. **cuts** [KVK<sup>+</sup>11]. **Cycle** [CSK17]. **Cycle-Accurate** [CSK17].

**D** [BPCC09, JB15, LP15, SPS12, TZWZ15]. **Data** [GKM<sup>+</sup>12, IABV15, PVB13, RMSK16, USY17, WAT15, CA11]. **Data-Flow** [GKM<sup>+</sup>12]. **Data-Level** [PVB13, CA11]. **Databases** [VL11]. **Dataflow** [ZG16]. **Datapath** [SBC15, WHQ<sup>+</sup>08]. **Datapath-Oriented** [WHQ<sup>+</sup>08]. **DBSCAN** [SB15]. **DCT** [CA11]. **Debug** [WHQ<sup>+</sup>08]. **Debugging** [IPC14]. **decoders** [CA11]. **Decomposition** [ZCL16]. **Decompression** [KBT09]. **Deep** [LDJ<sup>+</sup>17]. **defect** [RD11]. **Deflection** [KG17]. **Deflection-Routed** [KG17]. **Defragmentation** [FKS<sup>+</sup>12]. **Delay** [LOM10, MHK<sup>+</sup>08, SC08, WYZ16]. **Delays** [GNM<sup>+</sup>15, WSC09]. **Demands** [RUC11]. **Dense** [RC10, RMSK16]. **DEpendability** [KGS<sup>+</sup>12, WGGR17]. **Dependable** [Ste10]. **Design** [BKT14, BMR16, DL09, EWL15, GHO17, IPC14, JSC14, JB15, KMK<sup>+</sup>10, MKP09, NBS13, SJT09, SBC15, Tak12, UNBR14, HLL08, HH13, MAK<sup>+</sup>12]. **design-space** [HLL08]. **Designing** [AHL<sup>+</sup>14, FK08]. **Designs** [BPCC09, DB15, RLM<sup>+</sup>17, WYZ16]. **Desktop** [LYS<sup>+</sup>08]. **Detection** [ATJZ16, PD15, KSG11]. **Development** [VTN09, DW13]. **Device** [CXG<sup>+</sup>12]. **Devices** [FKS<sup>+</sup>12, RGCL16, WMG<sup>+</sup>10]. **Dictionary** [GRG08]. **Difference** [NJLW14, SLH<sup>+</sup>10]. **Differential** [MMMT09]. **Digital** [BNW<sup>+</sup>10, LP15, MCN12, SSC16]. **Digital-Signal** [SSC16]. **direct** [ZBR12]. **Directional** [KG17]. **Discovery** [MCL<sup>+</sup>13]. **Discrete** [GdLIG<sup>+</sup>14, GPP08]. **distributed** [HZW<sup>+</sup>13]. **Domain** [DDH<sup>+</sup>11, NSS<sup>+</sup>11]. **Domain-Specific** [DDH<sup>+</sup>11]. **don't** [MBJJ11]. **don't-care-based** [MBJJ11]. **DORGA** [NW11]. **Double** [LGD<sup>+</sup>14]. **Double-Precision** [LGD<sup>+</sup>14]. **DPA** [LOM10]. **Driven** [DSK15, LRA13, MWL<sup>+</sup>15, Ste10, EA11]. **driver** [LKJ<sup>+</sup>11]. **DSP** [CBFM14]. **DSPs** [DGP10]. **Dual** [HF14]. **Dual-Rail** [HF14]. **Dynamic** [BHI15, CTH16, CW09, DVH<sup>+</sup>15, FKS<sup>+</sup>12, KP14, LP15, VMV15, NSS<sup>+</sup>11]. **Dynamically** [BBND10, DGP<sup>+</sup>15, HHSC10, MSSM10, NNY12, TL11, ZBB<sup>+</sup>16, HLL08, HH13, IYY<sup>+</sup>11]. **Dynamics** [CH10].

**ECC** [DL09, GS10]. **Edition** [DH08]. **editor** [AN09]. **Editorial** [CDM15, DH08, GSCB15, WBAM10]. **Editors** [SJT09]. **Effect** [HLC<sup>+</sup>15]. **Efficient** [BMR16, BGSL17, DD15, FT17, FK08, HU10, KSCC10, PBPLA17, RLY<sup>+</sup>15, RLM<sup>+</sup>17, SLH<sup>+</sup>10, Tho15, CA11]. **Electromagnetic** [SGM09]. **Electron** [TZWZ15]. **Element** [MVGB15]. **Elementary** [LGD<sup>+</sup>14]. **Elimination** [NCJ<sup>+</sup>15]. **Elliptic** [GPP08, KBM09, SG15]. **Embedded** [BHI15, Kap16, KBT09, WHQ<sup>+</sup>08]. **Emulation** [CSK17]. **EmulatoR** [KGS<sup>+</sup>12]. **Enabling** [MWL<sup>+</sup>15, OVI<sup>+</sup>12]. **encoded** [KVK<sup>+</sup>11]. **Energy** [SMOP15]. **Energy** [DSK15, KLD16, LP15, CA11]. **energy-efficient** [CA11]. **Energy-Reliability** [DSK15]. **Engines** [XCG<sup>+</sup>09, YXC<sup>+</sup>11]. **Enhanced** [JCCM09, ZCL15, ZCL16]. **Enhancement** [ABCC09]. **Enhancing** [GKM<sup>+</sup>12, MCN12]. **Entropy** [FK08]. **Environment** [MCL<sup>+</sup>13]. **Equations** [GFL<sup>+</sup>15]. **Error** [DVK15, PD15]. **ETA** [PEM<sup>+</sup>09]. **Evaluating** [LAL13, WGGR16]. **Evaluation** [LOM10, NJLW14, SMOP15]. **Evaluations** [KGS<sup>+</sup>12]. **Evolution** [CBC<sup>+</sup>12]. **Evolvable** [DS15]. **Execution** [DSK15]. **Exotic** [FT17]. **Experiment** [QRDC<sup>+</sup>15]. **Exploitation** [INF<sup>+</sup>14, MAK<sup>+</sup>12]. **Exploiting** [BDGH15, CA11, EAGEG09, LCS14, LZF<sup>+</sup>10, PVB13]. **Exploration** [EWL15, UNBR14, HLL08, LKJ<sup>+</sup>11]. **Exploring** [JTLC09, MWL<sup>+</sup>15, SPS12]. **Exponentiation** [dDELVP13]. **Expressions** [LT09]. **Extended** [DGP10]. **Extending** [GdLIG<sup>+</sup>14]. **Extensible** [WS16]. **Extension** [GB11, GFBF12, MWK<sup>+</sup>12]. **Extraction** [GNM<sup>+</sup>15].

**Fabric** [BHB14, WHQ<sup>+</sup>08, SPS12]. **Fabrics** [KA17]. **Factor** [LRA13]. **Factored** [KAL14]. **Fast** [BAG15, CSK17, HU10, JM14, NW11, UNBR14, SSF<sup>+</sup>13]. **Fault** [BKT14, JCG<sup>+</sup>12, RLY<sup>+</sup>15]. **Fault-Tolerant** [BKT14, RLY<sup>+</sup>15]. **FEM** [BGSL17]. **Field** [AC14, CAPA<sup>+</sup>09, SCC10]. **Field-Programmable** [AC14, SCC10]. **Filter** [BPCC09]. **Filtering** [LP15]. **Filters** [CNE<sup>+</sup>15]. **Financial** [TB10]. **Fine** [RBR16]. **Fine-Grained** [RBR16]. **Fingerprint** [XJD<sup>+</sup>16]. **Finite** [NJLW14, SLH<sup>+</sup>10, GDHG11]. **Finite-Difference** [NJLW14]. **FIR** [LP15]. **First** [LAA<sup>+</sup>17]. **Fixed** [RGCL16, WL10, WMG<sup>+</sup>10]. **Fixed-** [WL10]. **flexibility** [LW08]. **Flexible** [DS15, LBRS16]. **Flight** [QRDC<sup>+</sup>15]. **Floating** [HU10, OBD13, RC10, USY17, WL10, WS16, dDELVP13]. **Floating-Point** [HU10, OBD13, USY17, WL10, WS16, dDELVP13]. **Floorplan** [KSCC10]. **Floorplanning** [MSSM10]. **Flow** [BNW<sup>+</sup>10, BMR16, BHB14, GKM<sup>+</sup>12, KA17, RLY<sup>+</sup>15, SCC10, ZG16]. **Footprint** [CW09]. **FPGA** [ABCC09, BCE<sup>+</sup>10, BAG15, BPDF11, BDGH15, CA11, Che11, CW09, CSK17, CZ09, DW13, DVK15, DL09, FRS<sup>+</sup>15, FLM<sup>+</sup>17, GP13, GFBF12, GMBC17, GSJC13, GRG08, GHO17, HF14, HGSL11, HCOB13, IPC14, JCG<sup>+</sup>12, JRHK15, JCCM09, JM14, KLD16, KLC11, KM10, Kap16, KBM09, KVK<sup>+</sup>11, KMK<sup>+</sup>10, KAL14, KA17, KGS15, KBT09, KD10, LA17, LCS14, LW08, LZF<sup>+</sup>10, LGD<sup>+</sup>14, LAL13, LDJ<sup>+</sup>17,

LT09, LKJ<sup>+11</sup>, MAK<sup>+12</sup>, MCN12, MHS09, NNY12, PWP<sup>+16</sup>, PDH11, PABI09, PMKM11, PBPLA17, RC10, SLH<sup>+10</sup>, SB15, SC08, SV09, TL11, Tho15, TB10, USY17, UNBR14, WYZ16, WHQ<sup>+08</sup>, WGGR16, WGGR17, XCG<sup>+09</sup>, YXC<sup>+11</sup>, YOY17, ZBR12, ZZJB13, ZBC<sup>+09</sup>, ZBB<sup>+16</sup>].

**FPGA-Array** [SLH<sup>+10</sup>]. **FPGA-Aware** [LCS14]. **FPGA-Based** [UNBR14, ZZJB13, CZ09, GHO17, JCG<sup>+12</sup>, Kap16, KBT09, LT09, NNY12, RC10, SB15, USY17, WGGR16, YOY17, ZBB<sup>+16</sup>, YXC<sup>+11</sup>, ZBR12].

**FPGAs** [AB14, AKA09, BKT14, BAMR10, BNW<sup>+10</sup>, BPCC09, BHB14, CAPA<sup>+09</sup>, CBFM14, CXG<sup>+12</sup>, CPN<sup>+09</sup>, CFBS15, DH08, DDH<sup>+11</sup>, DD15, DGP<sup>+15</sup>, DGP10, DB15, HU10, HBA<sup>+15</sup>, KG17, LLO<sup>+14</sup>, LOM10, LGW<sup>+14</sup>, MHK<sup>+08</sup>, MMT09, MVGB15, MSSM10, PANBI11, PVA<sup>+09</sup>, PVB13, RVHP16, RLM<sup>+17</sup>, SGM09, SSF<sup>+13</sup>, SPS12, SB08, Ste10, SSC16, SMOP15, VMV15, WSC09, WAT15]. **FPL** [BGSL17, YFW<sup>+17</sup>, CDM15, CS17, LAA<sup>+17</sup>]. **FPT'12** [AC14]. **Framework** [ASGY12, CKG<sup>+10</sup>, JCG<sup>+12</sup>, JRHK15, RGGW10, UAS16, VTN09, WGGR16, HLL08, SSF<sup>+13</sup>, SPS12]. **Frequent** [PBPLA17, ZZJB13]. **FSM** [GDHG11]. **Full** [CPN<sup>+09</sup>]. **Full-System** [CPN<sup>+09</sup>]. **Fully** [KAL14]. **Function** [LGD<sup>+14</sup>]. **Functional** [RUC11]. **Functions** [NCJ<sup>+15</sup>, SAD10].

**Game** [MCL<sup>+13</sup>]. **Gap** [MWL<sup>+15</sup>, TOS17]. **Gate** [SCC10]. **Gaussian** [SBC10, TL08, Tho15]. **General** [GFBF12]. **Generated** [HLC<sup>+15</sup>, LP15]. **Generating** [BMR16, GNM<sup>+15</sup>]. **Generation** [BS15, LGW<sup>+14</sup>, MWK<sup>+12</sup>, SCC10, TL08, GL08]. **Generator** [GHO17, SBC10, SSC16, Tho15]. **Generators** [RVHP16]. **Global** [GFL<sup>+15</sup>, JSC14]. **GPP** [TB10]. **GPU** [TB10]. **GPUs** [BNW<sup>+10</sup>, CFBS15]. **Gradient** [RC10]. **Grain** [IZO<sup>+10</sup>]. **Grained** [RBR16, VL11, XJD<sup>+16</sup>]. **Graph** [CM14, FRS<sup>+15</sup>, MVGB15, ZG16]. **Graph-Based** [MVGB15]. **graphics** [BG08]. **GRNG** [Tho15]. **GROK** [GNM<sup>+15</sup>]. **GROK-LAB** [GNM<sup>+15</sup>]. **Guest** [AN09, CDM15, DH08, GSCB15, WBAM10, SJT09].

**Hadamard** [Tho15]. **Hard** [AB14]. **Hardware** [AV13, BPDF11, BS15, CBC<sup>+12</sup>, CBR<sup>+14</sup>, CZ09, DS15, GPP08, HHSC10, HLC<sup>+15</sup>, HLN<sup>+10</sup>, IBH<sup>+15</sup>, KBT09, MOG<sup>+13</sup>, MCC10, PD15, PSM<sup>+14</sup>, SBC10, TL08, TOS17, WL10, YBS16, ZG16, BG08, HH13, SC11]. **Hardware-Accelerated** [MCC10]. **Hardware-Based** [HLN<sup>+10</sup>]. **Hardware/Software** [HHSC10, HH13, SC11]. **Hash** [IABV15]. **Healing** [BHI15]. **healthier** [ZH12]. **Heap** [BAG15]. **Heap-Based** [BAG15]. **heterogeneity** [LKJ<sup>+11</sup>]. **Heterogeneous** [ASGY12, AHL<sup>+14</sup>, BPCC09, CNE<sup>+15</sup>, GFL<sup>+15</sup>, KSCC10, KP14, OVI<sup>+12</sup>, TZWZ15, UAS16, PMKM11, SPS12]. **Hiding** [MMMT09, THK12]. **Hierarchies** [YFW<sup>+17</sup>]. **High** [BGSL17, BS15, CH10, CKG<sup>+10</sup>, EAGEG09, HNS<sup>+10</sup>, HLC<sup>+15</sup>, IPC14, MH15, NBS13, RC10, SPM<sup>+10</sup>, SGM09, SSC16, TB10, USY17, WBC16, ZBC<sup>+09</sup>, MAK<sup>+12</sup>, PANBI11]. **High-Level** [CKG<sup>+10</sup>, HLC<sup>+15</sup>, IPC14, NBS13, WBC16]. **High-Order** [BGSL17].

**High-Performance** [CH10, EAGEG09, HNS<sup>+</sup>10, MH15, SPM<sup>+</sup>10, SSC16, TB10, USY17, PANBI11]. **High-Speed** [BS15, ZBC<sup>+</sup>09]. **high-throughput** [MAK<sup>+</sup>12]. **HMAC** [MAK<sup>+</sup>12]. **Homogeneous** [LAL13]. **Hoplite** [KG17]. **Hybrid** [DS15, RGCL16]. **HyperTransport** [SGNB08].

**I/O** [RGCL16, MHS09]. **ICFPT** [AN09]. **iDEA** [CBFM14]. **Identification** [DVH<sup>+</sup>15, GHO17]. **Idle** [NCJ<sup>+</sup>15]. **II** [SMOP15]. **III** [SMOP15]. **Image** [BAG15, CZ09]. **Images** [TZWZ15]. **Impact** [HBA<sup>+</sup>15, KLD16]. **Implementation** [AV13, BAG15, GRG08, HF14, LGD<sup>+</sup>14, MKP09, OBD13, RC10, SV09, SAD10, CA11, SSF<sup>+</sup>13]. **Implementations** [BDGH15, FLM<sup>+</sup>17]. **Implemented** [PVB13]. **Implementing** [BKT14, BNW<sup>+</sup>10, SG15]. **Imprecise** [SBC15]. **Improve** [LZF<sup>+</sup>10, SDG12]. **Improved** [GHO17, JCCM09]. **Improving** [YKBS10]. **incremental** [GL08]. **Independent** [PMC<sup>+</sup>14]. **Index** [BAG15]. **Index-Aware** [BAG15]. **Information** [GSJC13]. **Infrastructure** [HBA<sup>+</sup>15, HH13]. **Input** [CAPA<sup>+</sup>09, FK08]. **Insertion** [LOM10]. **Instance** [RLM<sup>+</sup>17]. **Instance-Specific** [RLM<sup>+</sup>17]. **Instruction** [GB11]. **Instruction-Set** [GB11]. **Instructions** [LCS14]. **Integration** [GS10, JRHK15, LRA13, YBS16]. **Intensive** [ZG16]. **Interconnect** [FK08, RBR16, SPS12]. **Interface** [JB15, RUC11]. **Internal** [HBA<sup>+</sup>15]. **International** [AC14, DH08, VG14]. **Intra** [GNM<sup>+</sup>15, HF14]. **Intra-cluster** [GNM<sup>+</sup>15]. **Intra-Masking** [HF14]. **Intrinsic** [MHK<sup>+</sup>08]. **Introduction** [AC14, Bec14, BL08, CS17, Che16, Che11, CWBD09, DC16, GC13, Hüb12, SJT09, VG14, AN09]. **Invariant** [PD15]. **IP** [IZO<sup>+</sup>10]. **IR** [ZG16]. **Isolated** [MMMT09]. **Issue** [AC14, CWBD09, DC16, Hüb12, VG14]. **Itemset** [ZZJB13]. **Itemsets** [PBPLA17]. **iterative** [BC11].

**JIT** [BPDF11]. **JITPR** [SSF<sup>+</sup>13]. **Join** [YOY17].

**Kernel** [FLM<sup>+</sup>17, PWP<sup>+</sup>16]. **Kernels** [JB15]. **Key** [GFBF12]. **KLT** [DB15]. **Knowledge** [GNM<sup>+</sup>15].

**Lab** [MCN12, GNM<sup>+</sup>15]. **LambdaRank** [YXC<sup>+</sup>11]. **Language** [CKG<sup>+</sup>10]. **Large** [CSK17, KM10, MWL<sup>+</sup>15]. **Large-Scale** [CSK17]. **Latencies** [BAMR13]. **Latency** [THK12]. **Layer** [IBH<sup>+</sup>15]. **LDPC** [CA11]. **Learning** [MCN12]. **Least** [FLM<sup>+</sup>17, PWP<sup>+</sup>16]. **Length** [LRA13, EA11]. **Level** [ASGY12, CKG<sup>+</sup>10, DS15, DL09, GSJC13, HLC<sup>+</sup>15, IPC14, NBS13, PVB13, WBC16, CA11]. **Leveraging** [SC11]. **libraries** [KVK<sup>+</sup>11]. **Library** [WL10]. **Lightweight** [RD11]. **Line** [IABV15]. **Line-Rate** [IABV15]. **Linear** [WGGR17, ZBR12]. **Linux** [MSF16]. **Lists** [WAT15]. **Lithographic** [CZ09]. **Load** [THK12, RD11]. **load-time** [RD11]. **Local** [JSC14]. **Logarithm** [GPP08]. **Logarithmic** [BPDF11]. **Logarithmic-Time** [BPDF11]. **Logic** [DGP10, IZO<sup>+</sup>10, MHS09, PABI09, WBC16, MBJJ11, PMKM11]. **Long** [UHU09]. **Loop** [DSB09]. **Loops** [PMC<sup>+</sup>14, PFC15]. **Low**

[DS15, FRS<sup>+</sup>15, HBA<sup>+</sup>15, KBM09, KCC<sup>+</sup>14, KGS15, ZBC<sup>+</sup>09, ZH12].  
**Low-Complexity** [FRS<sup>+</sup>15]. **Low-cost** [ZH12]. **Low-Level** [DS15].  
**Low-Overhead** [KGS15]. **Low-Power** [KBM09, KCC<sup>+</sup>14, ZBC<sup>+</sup>09].  
**Low-Speed** [HBA<sup>+</sup>15]. **LUT** [FK08, HF14, JCCM09].

**Machine** [KAL14, GDHG11]. **Management**  
[BBND10, KP14, LP15, HZW<sup>+</sup>13]. **Manager** [OWMZ11]. **Mapping**  
[BBND10, CTH16, CNE<sup>+</sup>15, CM14, CBR<sup>+</sup>14, JSC14, JCCM09, MCL<sup>+</sup>13,  
KVK<sup>+</sup>11]. **Mapping-Scheduling** [CBR<sup>+</sup>14]. **Masking** [HF14]. **Massively**  
[JB15]. **Matching** [XJD<sup>+</sup>16]. **Matrices** [RC10]. **Matrix** [DDB<sup>+</sup>10, BC11].  
**Matrix-Vector** [DDB<sup>+</sup>10, BC11]. **Maximum** [RLY<sup>+</sup>15]. **Mean** [FLM<sup>+</sup>17].  
**Means** [TK16]. **Measurement** [WSC09]. **Mechanism** [SLH<sup>+</sup>10, SMOP15].  
**Memories** [AL16, BDGH15, DD15, LLO<sup>+</sup>14]. **Memory**  
[BAMR10, BAMR13, CW09, HF14, JB15, KLD16, MSF16, PFC15, RGCL16,  
THK12, WBR16, YFW<sup>+</sup>17, BC11, LJS11]. **Mercury** [JLB<sup>+</sup>08]. **Merged**  
[GRG08]. **Merging** [JCCM09, KD10, LCS14]. **Meshes** [BGSL17]. **Method**  
[NJLW14]. **Methodology** [DGP<sup>+</sup>15, LBRS16]. **Methods**  
[KSCC10, SLH<sup>+</sup>10, BC11]. **Metrics** [RGCL16]. **MHz** [WBR16].  
**Microarchitectural** [LA17]. **Microarchitecture** [WBR16]. **MicroBlaze**  
[MSF16]. **Microcoded** [GRG08, PWP<sup>+</sup>16]. **Microkernel** [IBH<sup>+</sup>15].  
**Microscopy** [TZWZ15]. **Middleware** [KGS15]. **Mining**  
[PBPLA17, ZZJB13]. **Minor** [CM14]. **Mixed** [AB14]. **mobile** [NSS<sup>+</sup>11].  
**MOdel** [KGS<sup>+</sup>12, AHL<sup>+</sup>14, LAL13, MOG<sup>+</sup>13, MVGB15, SPM<sup>+</sup>10, YBS16,  
AGY<sup>+</sup>11, DW13, HGLS11, PDH11]. **MOdel-Based** [KGS<sup>+</sup>12]. **Modeling**  
[GdLIG<sup>+</sup>14, PVA<sup>+</sup>09, SC08]. **Models** [JTLC09]. **MODES** [KGS<sup>+</sup>12].  
**Modifications** [SDG12]. **Modular** [AL16, IPC14, NBS13, OWMZ11].  
**Module** [KD10, SGM09]. **Module-Based** [KD10]. **Modulo** [BAMR10].  
**Molecular** [CH10]. **Monitoring** [BCE<sup>+</sup>10]. **Monte** [TB10]. **MPI**  
[SPM<sup>+</sup>10]. **MPSoC** [BHI15, PSM<sup>+</sup>14]. **MPSoCs** [DSK15, KP14, OVI<sup>+</sup>12].  
**MRAM** [ZBC<sup>+</sup>09]. **Multi**  
[CAPA<sup>+</sup>09, GMBC17, HGLS11, JSC14, LLO<sup>+</sup>14, WMG<sup>+</sup>10]. **Multi-Agent**  
[GMBC17]. **Multi-Application** [JSC14]. **Multi-Core** [WMG<sup>+</sup>10].  
**Multi-FPGA** [HGLS11]. **Multi-Input** [CAPA<sup>+</sup>09]. **Multi-Ported**  
[LLO<sup>+</sup>14]. **Multicontext** [VL11]. **Multicore** [MSF16, SDG12]. **Multicores**  
[AHL<sup>+</sup>14, CFBS15]. **Multidimensional** [SB15]. **MultiFactor** [KLC11].  
**Multigigabit** [PP10]. **multilevel** [AGY<sup>+</sup>11, HGLS11]. **multilevel-PGAS**  
[AGY<sup>+</sup>11]. **Multimedia** [DSK15]. **Multiple** [MHK<sup>+</sup>08]. **Multiplication**  
[DDB<sup>+</sup>10, BC11]. **Multiplier** [HCOB13]. **Multipliers** [HU10].  
**Multiported** [AL16]. **Multiprocessor** [CPN<sup>+</sup>09]. **Multiprocessors**  
[PPR<sup>+</sup>10]. **Multivariate** [SBC10, TL08]. **mutate** [GL08]. **MXP** [LA17].  
**NCBI** [MH15]. **Near** [DD15]. **Near-Associative** [DD15]. **Net**  
[EA11, LRA13]. **Net-Length** [LRA13]. **Net-length-based** [EA11].  
**Network** [CTH16, GMBC17, JSC14, KAL14]. **Network-on-Chip**



[CTH16, JSC14]. **Networks** [AB14, CSK17, KD10, LDJ<sup>+</sup>17, LL12, MVGB15, PVA<sup>+</sup>09, HZW<sup>+</sup>13, LW08]. **Networks-on-Chip** [AB14, CSK17]. **Neural** [KAL14, LDJ<sup>+</sup>17]. **Next** [LGW<sup>+</sup>14]. **Nine** [NW11]. **Nine-Context** [NW11]. **NoC** [KG17, KP14]. **NoC-Based** [KP14]. **Normalised** [FLM<sup>+</sup>17]. **Novel** [EWL15, VL11, SPS12]. **Number** [RVHP16, SBC10, TL08, Tho15]. **Numerical** [SLH<sup>+</sup>10, USY17].

**O** [RGCL16, MHS09]. **Octavo** [LA17]. **ODoST** [YBS16]. **OFDM** [SAD10]. **off** [LW08]. **Offs** [SAD10]. **On-Chip** [LL12, GNM<sup>+</sup>15]. **onto** [SSF<sup>+</sup>13]. **open** [SGNB08]. **open-source** [SGNB08]. **OpenCL** [TK16]. **Operating** [AHL<sup>+</sup>14, IBH<sup>+</sup>15]. **Operation** [NBS13]. **Operations** [PSM<sup>+</sup>14]. **Operators** [OBD13]. **Opportunities** [DVH<sup>+</sup>15]. **Optical** [BNW<sup>+</sup>10, NW11]. **Optimal** [DSB09]. **Optimization** [BPCC09, CXG<sup>+</sup>12, DSK15, DDH<sup>+</sup>11, KSCC10, LP15, LT09, WYZ16, MBJJ11]. **Optimizations** [HLC<sup>+</sup>15]. **Optimized** [GS10, LDJ<sup>+</sup>17, SBC10, YFW<sup>+</sup>17]. **Optimizing** [BAMR13, BC11, Kap16, WGGR16, WGGR17]. **Option** [JTLC09]. **Options** [FT17]. **Order** [BGSL17, WBR16]. **Oriented** [TL11, VL11, WHQ<sup>+</sup>08]. **Oscillator** [YKBS10, ZH12]. **Out-of-Order** [WBR16]. **Over-Clocking** [DB15]. **Overclocking** [SBC15]. **Overhead** [KGS15]. **Overlays** [LA17]. **own** [RD11].

**Packing** [AKA09]. **Papers** [LAA<sup>+</sup>17]. **Parallel** [AV13, BAG15, JB15, SB15, SSC16, TZWZ15, YOY17]. **Parallelism** [INF<sup>+</sup>14, KLD16, PVB13, CA11]. **Parallelizing** [WAT15]. **parameters** [DW13]. **Parametric** [SC08]. **Parser** [LBR16]. **Parser-Based** [LBR16]. **Partial** [EAGEG09, GFBF12, PDH11]. **Partially** [HHSC10, KMK<sup>+</sup>10, HH13]. **Particle** [BG08, CNE<sup>+</sup>15]. **Partition** [BS15]. **Partitioning** [TL11]. **Architecture** [EWL15]. **Decompression** [PP10]. **MARTE** [GdLIG<sup>+</sup>14]. **Software** [HHSC10, HH13, SC11]. **Pentium(R)** [LYS<sup>+</sup>08]. **Perfecto** [HLL08]. **Performance** [CH10, CKG<sup>+</sup>10, EAGEG09, HNG09, HNS<sup>+</sup>10, LP15, MH15, PDH11, SPM<sup>+</sup>10, SDG12, SSC16, TL11, Tak17, TB10, TOS17, USY17, UNBR14, WGGR17, BC11, GP13, HGLS11, PANBI11]. **Performance-Oriented** [TL11]. **Perl** [LT09]. **Perturb** [GL08]. **PEs** [GRG08]. **PGAS** [AGY<sup>+</sup>11]. **Physical** [INF<sup>+</sup>14, MVGB15, SMOP15]. **Pinch** [DGP10]. **Pipelined** [KAL14, SV09, YOY17]. **pixel** [Oli12]. **Placement** [FRS<sup>+</sup>15, GSJC13, HHSC10, MVGB15, MSSM10, Ste10, GL08]. **Platform** [KSG11, NNY12]. **Platform-aware** [KSG11]. **Platforms** [CBR<sup>+</sup>14, GFL<sup>+</sup>15, GKM<sup>+</sup>12, RMSK16, SAD10]. **Point** [HU10, KD10, OBD13, RC10, USY17, WL10, WS16, dDELVP13]. **Point-to-Point** [KD10]. **Policy** [SDG12]. **Port** [PVA<sup>+</sup>09]. **Portability** [KGS15]. **Portable** [WS16, ZBR12]. **Ported** [LLO<sup>+</sup>14]. **POWER** [KGS<sup>+</sup>12, CXG<sup>+</sup>12, KBM09, KCC<sup>+</sup>14, KP14, LAL13, MMMT09, SLH<sup>+</sup>10, UNBR14, WGGR17, ZBC<sup>+</sup>09, EA11, LW08, KGS<sup>+</sup>12]. **power-aware** [EA11].

**Power-Efficient** [SLH<sup>+</sup>10]. **POWER-EmulatoR-** [KGS<sup>+</sup>12].  
**POWER-MODES** [KGS<sup>+</sup>12]. **Precision** [LGD<sup>+</sup>14, WL10, Oli12].  
**Predicting** [MOG<sup>+</sup>13]. **Prediction** [HNG09, HGLS11]. **Preserving**  
 [PVA<sup>+</sup>09]. **Pricing** [FT17, JTLC09, KLC11]. **Primitives** [HLN<sup>+</sup>10].  
**Priority** [BAG15, KVK<sup>+</sup>11]. **Problem** [GB11, GPP08]. **Problems** [KM10].  
**Process** [DB15, SB08, LKJ<sup>+</sup>11, SC11]. **Processing**  
 [BHB14, IABV15, Kap16, LP15, MVGB15, SSC16, WAT15, YEC<sup>+</sup>09, ZBB<sup>+</sup>16].  
**Processor** [CBFM14, KCC<sup>+</sup>14, LA17, MWK<sup>+</sup>12, PWP<sup>+</sup>16, Tak17, WBR16,  
 YEC<sup>+</sup>09, Tak12]. **Processors** [FLM<sup>+</sup>17, GFBB12, VTN09, IYY<sup>+</sup>11, LJS11].  
**Production** [UHU09]. **Productivity** [KGS15]. **Profiling** [EWL15].  
**Profiling-Based** [EWL15]. **Program** [PD15]. **Program-Invariant** [PD15].  
**Programmability** [GKM<sup>+</sup>12]. **Programmable**  
 [AC14, CAPA<sup>+</sup>09, GS10, OWMZ11, SCC10]. **Programming**  
 [MWK<sup>+</sup>12, SPM<sup>+</sup>10, WGGR17, AGY<sup>+</sup>11]. **Protected** [BDGH15, SG15].  
**Protein** [JLB<sup>+</sup>08]. **ProtoFlex** [CPN<sup>+</sup>09]. **PUF** [GHO17]. **PUFs** [MKP09].  
**Pulses** [PEM<sup>+</sup>09]. **Purpose** [GFBB12, GPP08, LGD<sup>+</sup>14]. **Purposes**  
 [BHI15].

**Quasi** [TB10]. **Quasi-Monte** [TB10]. **Query** [ZBB<sup>+</sup>16]. **Queue** [BAG15].  
**Quipu** [MOG<sup>+</sup>13].

**R** [PP10]. **R3TOS** [IBH<sup>+</sup>15]. **Radiations** [SGM09]. **Radio** [PEM<sup>+</sup>09]. **Rail**  
 [HF14]. **Random** [LOM10, RVHP16, SBC10, TL08, Tho15]. **Randomized**  
 [DL09]. **RankBoost** [XCG<sup>+</sup>09]. **Rapid** [HNG09, RGGW10]. **RAT** [HNG09].  
**Rate** [IABV15]. **RAW** [GC13, RVHP16]. **RC** [HNG09]. **Real**  
 [ABCC09, BHB14, GNM<sup>+</sup>15, HHSC10, INF<sup>+</sup>14, IBH<sup>+</sup>15, RMSK16].  
**Real-Time** [ABCC09, BHB14, HHSC10, INF<sup>+</sup>14, IBH<sup>+</sup>15, RMSK16].  
**Realizable** [RGCL16]. **Realizable-Utilization** [RGCL16]. **Recipes**  
 [DGP10]. **Recoding** [ZCL15]. **Recognition** [DDH<sup>+</sup>11]. **reconfigurability**  
 [SC11]. **Reconfigurable**  
 [ASGY12, AV13, ATJZ16, BBND10, Bec14, BHI15, BHB14, CBC<sup>+</sup>12,  
 CTH16, CNE<sup>+</sup>15, CH10, CBR<sup>+</sup>14, CKG<sup>+</sup>10, DC16, DGP<sup>+</sup>15, DSB09,  
 DDB<sup>+</sup>10, EAGEG09, FT17, FKS<sup>+</sup>12, GFL<sup>+</sup>15, GKM<sup>+</sup>12, GC13, GdLIG<sup>+</sup>14,  
 HCOB13, HHSC10, HNS<sup>+</sup>10, HLN<sup>+</sup>10, IZO<sup>+</sup>10, IBH<sup>+</sup>15, JCG<sup>+</sup>12, JTLC09,  
 KMK<sup>+</sup>10, KCC<sup>+</sup>14, LYS<sup>+</sup>08, MH15, MKP09, MWK<sup>+</sup>12, MSSM10, NNY12,  
 NBS13, NJLW14, Oli12, PP10, PD15, PFC15, RGGW10, RGCL16, RMSK16,  
 RUC11, SPM<sup>+</sup>10, SJT09, SAD10, TL11, THK12, TL08, UAS16, UHU09,  
 VL11, VTN09, VG14, WL10, WMG<sup>+</sup>10, ZBB<sup>+</sup>16, dDELVP13, AGY<sup>+</sup>11,  
 BG08, GDHG11, HLL08, HH13, IYY<sup>+</sup>11, KSG11, ZH12]. **Reconfiguration**  
 [DS15, EAGEG09, GFBB12, HNS<sup>+</sup>10, JSC14, KD10, LCS14, LZF<sup>+</sup>10, NW11,  
 NCJ<sup>+</sup>15, PPR<sup>+</sup>10, RLY<sup>+</sup>15, VMV15, ZBC<sup>+</sup>09, NSS<sup>+</sup>11, PDH11].  
**Reconstruction** [TZWZ15]. **ReCoSoC** [Hüb12]. **ReCoSoC'12** [VG14].  
**Recursive** [PWP<sup>+</sup>16]. **Reduce** [PSM<sup>+</sup>14]. **Reducing** [BAMR10, TOS17].  
**Reduction** [CW09, SLH<sup>+</sup>10]. **References** [BAMR13]. **Regular** [LT09].

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