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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 [YB18]. 2.0 [AZM<sup>+</sup>19]. 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].

8 [MPZ<sup>+</sup>20].

**A-Port** [PVA<sup>+</sup>09]. **Abstraction** [IBH<sup>+</sup>15]. **Abstractions** [IPC14].  
**Academic** [MWL<sup>+</sup>15]. **Accelerated** [MHS<sup>+</sup>19, MCC10, BE19].  
**Accelerating** [JLB<sup>+</sup>08, TZWZ15, VL11, ZG16]. **Acceleration**  
 [CAPA<sup>+</sup>09, CBR<sup>+</sup>14, CZ09, KLC11, MCD<sup>+</sup>18, PFC15, PBPLA17, TK16,  
 WTS19, WMG<sup>+</sup>10, XCG<sup>+</sup>09, YOY17, YBS16, ZBR12]. **Accelerator**  
 [CNZ<sup>+</sup>18, LDJ<sup>+</sup>17, YEC<sup>+</sup>09, YGH<sup>+</sup>18, ZZJB13, YXC<sup>+</sup>11]. **Accelerators**  
 [GZY<sup>+</sup>18, JRHK15, UNBR14]. **Access** [LYZ<sup>+</sup>18]. **Accesses** [PFC15].  
**Accumulator** [WS16]. **Accuracy** [DHL<sup>+</sup>18, KY18, LP15, UNBR14].  
**Accurate** [AVCP20, CSK17, DLBM18, JM14]. **Adaptation** [FL20].  
**Adaption** [BHI15]. **Adaptive** [CNE<sup>+</sup>15, INF<sup>+</sup>14, JCG<sup>+</sup>12, NNY12,  
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**Adders** [HU10]. **Adding** [PSM<sup>+</sup>14]. **Addition** [CAPA<sup>+</sup>09, OBD13].  
**Addition-Related** [OBD13]. **Adjustable** [ZWM19]. **Adjustment** [NW11].  
**adventure** [RD11]. **Aerial** [CZ09]. **Aerospace** [WGGR16]. **AES**  
 [DGP10, HF14]. **against** [LOM10]. **Agent** [GMBC17]. **Agreement**  
 [ADSH18]. **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**  
 [BPDF11, CCF<sup>+</sup>18, CFBS15, CKG<sup>+</sup>10, JCGW20, MMT09, PPR<sup>+</sup>10,  
 RGGW10, RGCL16, RSMK16, 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**  
 [AZM<sup>+</sup>19, CFBS15, CKG<sup>+</sup>10, GKM<sup>+</sup>12, KBM09, KCC<sup>+</sup>14, LZP<sup>+</sup>10,  
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 [NSS<sup>+</sup>11]. **Approach** [CM14, KM10, LYZ<sup>+</sup>18, MWK<sup>+</sup>12, NBS13, SBC15].  
**Approaches** [MVGB15, SAD10]. **ARC**  
 [BAG15, DB15, GSCB15, SB15, WBAM10]. **ARC'08** [CWBD09].  
**Architecture** [ADSH18, ATJZ16, BCE<sup>+</sup>10, CXG<sup>+</sup>12, DS15, EWL15, FT17,  
 GMBC17, IZO<sup>+</sup>10, IBH<sup>+</sup>15, KLD16, KSCC10, KAL14, LGW<sup>+</sup>14, MPZ<sup>+</sup>20,  
 OWMZ11, PFC15, PB18, SBC10, SB15, Tak17, VL11, WS16, XJD<sup>+</sup>16,  
 ZCL16, DW13, LKJ<sup>+</sup>11, Oli12]. **Architectures** [BBND10, BDX<sup>+</sup>19,  
 CBC<sup>+</sup>12, DSB09, GC13, JTLC09, KY18, LAL13, LFN<sup>+</sup>18, YB18, HLL08].  
**Area** [DD15, KY18, Tho15]. **Area-Efficient** [DD15, Tho15]. **ARISE**  
 [VTN09]. **Arithmetic** [SCC10]. **Array** [SLH<sup>+</sup>10, ZCL16]. **Arrays**  
 [DPHT19, SCC10, ZH12]. **Artificial** [KAL14]. **ASIC** [BYB18]. **ASIP**  
 [EWL15]. **Assembly** [BGSL17]. **Assignment** [SB08]. **Associative** [DD15].  
**Assurance** [KMK<sup>+</sup>10]. **Asymmetric** [SDG12]. **Atmospheric** [GFL<sup>+</sup>15].  
**Attack** [SGM09]. **Attacks** [GER19, KGT19, ZQ19]. **Authenticated**

[ADSH18]. **Automata** [BDX<sup>+</sup>19, MHS09]. **Automated** [DD18, RMSK16, SCC10]. **Automatic** [AZM<sup>+</sup>19, YB18, 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, GWPK20, GDHG11, GHO17, HLN<sup>+</sup>10, JCG<sup>+</sup>12, JTLC09, Kap16, KBT09, KD10, KGS<sup>+</sup>12, LBRS16, LZ19, LT09, LL12, MVGB15, NNY12, OVI<sup>+</sup>12, PPR<sup>+</sup>10, RC10, SLH<sup>+</sup>10, SB15, SP20, TYB18, USY17, WGGR16, YOY17, ZCL16, ZBC<sup>+</sup>09, ZNA<sup>+</sup>18, ZBB<sup>+</sup>16, AHAM<sup>+</sup>19, DLCJ20, EA11, GZY<sup>+</sup>18, HLL08, LZF<sup>+</sup>10, LFN<sup>+</sup>18, MBJJ11, Ste10, WTS19, YXC<sup>+</sup>11, ZBR12, ZQ19, KP14, UNBR14, ZZJB13]. **Behavior** [PVA<sup>+</sup>09]. **Benchmarks** [MWL<sup>+</sup>15, PB18]. **Benefits** [PSM<sup>+</sup>14]. **between** [LW08, MWL<sup>+</sup>15, TOS17]. **Big** [RMSK16]. **Binary** [ADSH18, PFC15]. **Biomedical** [KCC<sup>+</sup>14, YBS16]. **Bit** [UCR<sup>+</sup>19]. **Bit-Serial** [UCR<sup>+</sup>19]. **Bits** [DVK15]. **Bitstream** [BPDF11, SMOP15]. **BLASTP** [JLB<sup>+</sup>08, MH15]. **Block** [BDGH15, CBFM14, TYB18]. **Block-Based** [CBFM14]. **Blocks** [FK08, PMKM11]. **Boltzmann** [KAL14]. **bottleneck** [KSG11]. **Bound** [MHS09, RLM<sup>+</sup>17]. **BRAM** [AZM<sup>+</sup>19]. **BRAMs** [DGP10]. **Branch** [RLM<sup>+</sup>17]. **Broadcast** [PSM<sup>+</sup>14]. **Buses** [HBA<sup>+</sup>15].

**Cache** [KD19, SDG12]. **Cache-coherent** [KD19]. **CAD** [KA17, LKJ<sup>+</sup>11, LGW<sup>+</sup>14, MWL<sup>+</sup>15, MPZ<sup>+</sup>20]. **Calculus** [GWPK20]. **Calculus-Based** [GWPK20]. **Cannot** [BYB18]. **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** [BFBN<sup>+</sup>20, VG14]. **CGRA** [VL11]. **CGRAs** [CM14]. **Chain** [PABI09]. **Channel** [SG15, GER19]. **Characterization** [WMG<sup>+</sup>10]. **Check** [DL09]. **Checking** [PD15]. **Checkpointing** [AB20]. **Chief** [Che19]. **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, EAAAA19, KS20, LL12, WSC09, GL08]. **Circuit-Switched** [LL12]. **Circuitry** [GGR<sup>+</sup>18]. **Circuits** [BMR16, CBC<sup>+</sup>12, DL09, SC08, SV09, Ste10, WBR16, WBR18]. **Classification** [ZWM19]. **clock** [LW08]. **Clocking** [DB15]. **Cloud** [BDX<sup>+</sup>19, BE19, KGT19, EAAAA19]. **Clouds** [RHLK18]. **cluster** [GNM<sup>+</sup>15]. **Clustering** [LRA13, EA11]. **Clusters** [FK08, OKA19]. **CNN** [LFN<sup>+</sup>18, MCD<sup>+</sup>18, YGH<sup>+</sup>18]. **CNN-based** [LFN<sup>+</sup>18]. **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]. **COFFE** [YB18]. **Coherency** [SDG12]. **coherent** [KD19]. **Column** [VL11]. **Column-Oriented** [VL11]. **Combinatorial** [WSC09]. **Combined** [PP10]. **Commercial** [FL16, 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]. **Compensation** [DNL19]. **Compilation** [BPDF11, MWK<sup>+</sup>12, UAS16]. **Compile** [PPR<sup>+</sup>10]. **Compile-Time** [PPR<sup>+</sup>10]. **Compiler** [HLC<sup>+</sup>15, ZG16]. **Complex** [YB18]. **Complexity** [FRS<sup>+</sup>15]. **Component** [SCC10]. **Components** [ATJZ16, DC16]. **Composing** [LLO<sup>+</sup>14]. **Comprehensive** [JCG<sup>+</sup>12, GP13]. **Compression** [GRG08, PP10, PBBP18, 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** [AJYH18, Bec14, CH10, CKG<sup>+</sup>10, EAGEG09, HNS<sup>+</sup>10, JCG<sup>+</sup>12, MH15, RGGW10, RDB<sup>+</sup>18, USY17, UAS16, UCR<sup>+</sup>19, 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** [AHAM<sup>+</sup>19, CTH16]. **Congestion-estimation** [AHAM<sup>+</sup>19]. **Conjugate** [RC10]. **Connected** [ATJZ16]. **Consideration** [TL11]. **Considering** [SC08]. **Constant** [HCOB13]. **constrained** [MHS<sup>+</sup>19]. **Constraint** [MWK<sup>+</sup>12]. **Constraints** [BAMR10, INF<sup>+</sup>14, LP15]. **Construction** [YFW<sup>+</sup>17]. **Context** [AB20, BMR16, NW11]. **Context-Switch** [BMR16]. **Continuous** [GGR<sup>+</sup>18]. **Control** [NW11, ZG16]. **Control-Intensive** [ZG16]. **Controller** [GdLIG<sup>+</sup>14]. **Converter** [DNL19]. **Convolution** [WTS19]. **Convolutional** [BYB18, LDJ<sup>+</sup>17, LFN<sup>+</sup>18, MHS<sup>+</sup>19, PBBP18]. **Coordination** [ASGY12, PMC<sup>+</sup>14]. **Coprocessor** [GS10]. **CORDIC** [ZCL15, ZCL16]. **CORDIC-Based** [ZCL16]. **Core** [IZO<sup>+</sup>10, WPSI18, WMG<sup>+</sup>10, SGNB08]. **Correlation** [GSJC13]. **COSMIC** [GGR<sup>+</sup>18]. **Cost** [DPHT19, TL11, PDH11, ZH12]. **Countermeasure** [MMMT09]. **Counters** [LT09]. **Counting** [FK08, PBPLA17]. **Covert** [GER19]. **Covert-** [GER19]. **CPU** [CCF<sup>+</sup>18, MCD<sup>+</sup>18]. **CPUs** [TOS17]. **Creative** [MCL<sup>+</sup>13]. **Cross** [BDX<sup>+</sup>19, YGH<sup>+</sup>18]. **Cross-layer** [YGH<sup>+</sup>18]. **Cross-Platform** [BDX<sup>+</sup>19]. **Cryo** [TZWZ15]. **Cryo-Electron** [TZWZ15]. **Cryptographic** [BDGH15, SGM09]. **Cryptography** [GFBF12, KBM09, SG15]. **Curve** [ADSH18, GPP08, KBM09, SG15]. **Curve25519** [SG15]. **Custom** [GRG08, LCS14, PBBP18, TOS17]. **Customizable** [MPZ<sup>+</sup>20]. **Customized** [LFN<sup>+</sup>18]. **cuts** [KVK<sup>+</sup>11]. **Cycle** [CSK17]. **Cycle-Accurate** [CSK17].

**D** [BPCC09, JB15, LP15, SPS12, TZWZ15]. **Data**

[GKM<sup>+</sup>12, IABV15, LYZ<sup>+</sup>18, PVB13, RMSK16, USY17, WAT15, CA11].  
**Data-Flow** [GKM<sup>+</sup>12]. **Data-Level** [PVB13, CA11]. **Databases** [VL11].  
**Datacenters** [BE19]. **Dataflow** [ZG16]. **Datapath** [SBC15, WHQ<sup>+</sup>08].  
**Datapath-Oriented** [WHQ<sup>+</sup>08]. **DBSCAN** [SB15]. **DCT** [CA11]. **Debug**  
 [JCGW20, WHQ<sup>+</sup>08]. **Debugging** [IPC14, JCGW20, KS20]. **Decision**  
 [OKA19]. **Decoders** [DLCJ20, CA11]. **Decomposition** [ZCL16].  
**Decompression** [KBT09, PP10]. **Deconvolutional** [LFN<sup>+</sup>18]. **Deep**  
 [BPF<sup>+</sup>18, CPW18, LDJ<sup>+</sup>17, RHLK18]. **Deep-Learning** [BPF<sup>+</sup>18]. **Deeply**  
 [LFN<sup>+</sup>18]. **defect** [RD11]. **Defenses** [ZQ19]. **Deflection** [KG17].  
**Deflection-Routed** [KG17]. **Defragmentation** [FKS<sup>+</sup>12]. **Delay**  
 [LOM10, MHK<sup>+</sup>08, SC08, WYZ16]. **Delayed** [FL20]. **Delays**  
 [GNM<sup>+</sup>15, WSC09]. **Demands** [RUC11]. **Dense** [RC10, RMSK16].  
**DEpendability** [KGS<sup>+</sup>12, WGGR17]. **Dependable** [Ste10]. **Dependency**  
 [JCGW20]. **Deployment** [BDX<sup>+</sup>19]. **Depth** [CCF<sup>+</sup>18]. **Design**  
 [BKT14, BMR16, DLCJ20, DL09, EWL15, GWPK20, GHO17, IPC14, JSC14,  
 JB15, KMK<sup>+</sup>10, MKP09, MHS<sup>+</sup>19, NBS13, SJT09, SBC15, Tak12, UNBR14,  
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 [AHL<sup>+</sup>14, FK08]. **Designs**  
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**Detection** [AVCP20, ATJZ16, PD15, YGH<sup>+</sup>18, KSG11]. **Development**  
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 [FKS<sup>+</sup>12, RGCL16, WMG<sup>+</sup>10]. **Dictionary** [GRG08]. **Difference**  
 [NJLW14, SLH<sup>+</sup>10]. **Differential** [MMMT09]. **Digital**  
 [BNW<sup>+</sup>10, DNL19, LP15, MCN12, SSC16]. **Digital-Signal** [SSC16]. **direct**  
 [ZBR12]. **Directional** [KG17]. **Discovery** [MCL<sup>+</sup>13]. **Discrete**  
 [GdLIG<sup>+</sup>14, GPP08]. **Distributed** [OKA19, HZW<sup>+</sup>13]. **DL** [GZY<sup>+</sup>18]. **Do**  
 [BYB18]. **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, YGH<sup>+</sup>18, EA11]. **driver** [LKJ<sup>+</sup>11]. **DSL**  
 [SP20]. **DSL-Based** [SP20]. **DSP** [CBFM14]. **DSPs** [DGP10]. **Dual** [HF14].  
**Dual-Rail** [HF14]. **Dynamic** [AZM<sup>+</sup>19, BHI15, CTH16, CW09, DVH<sup>+</sup>15,  
 FKS<sup>+</sup>12, KP14, KS20, 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, Che19].  
**Editor-in-Chief** [Che19]. **Editorial**  
 [CDM15, Che19, DH08, GSCB15, WBAM10]. **Editors** [SJT09]. **Edwards**  
 [ADSH18]. **Effect** [HLC<sup>+</sup>15]. **Efficiency** [BYB18, DPHT19, PBBP18].  
**Efficient**  
 [BMR16, BGSL17, DD15, DLBM18, FT17, FK08, HU10, KSCC10, KD19,  
 LYZ<sup>+</sup>18, MCD<sup>+</sup>18, PBPLA17, RLY<sup>+</sup>15, RLM<sup>+</sup>17, SLH<sup>+</sup>10, Tho15, CA11].  
**Electrical** [KGT19]. **Electrical-level** [KGT19]. **Electromagnetic** [SGM09].

**Electron** [TZWZ15]. **Element** [MVGB15]. **Elementary** [LGD<sup>+</sup>14].  
**Elimination** [NCJ<sup>+</sup>15]. **Elliptic** [GPP08, KBM09, SG15]. **Embedded**  
 [BHI15, Kap16, KBT09, WPSI18, WHQ<sup>+</sup>08]. **Emulation** [CSK17].  
**EmulatoR** [KGS<sup>+</sup>12]. **Enable** [AZM<sup>+</sup>19, AB20, RDB<sup>+</sup>18]. **Enabling**  
 [MWL<sup>+</sup>15, OVI<sup>+</sup>12]. **encoded** [KVK<sup>+</sup>11]. **Encryption** [SMOP15]. **End**  
 [BPF<sup>+</sup>18]. **End-to-End** [BPF<sup>+</sup>18]. **Energy**  
 [DSK15, DLBM18, DPHT19, KLD16, LP15, CA11]. **Energy-Efficient**  
 [DLBM18, 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, TYB18]. **Ensembles** [OKA19].  
**Entropy** [FK08]. **Environment** [MCL<sup>+</sup>13]. **Equations** [GFL<sup>+</sup>15]. **Error**  
 [DVK15, PD15, ZNA<sup>+</sup>18]. **Estimation**  
 [DHL<sup>+</sup>18, DNL19, WPSI18, AHAM<sup>+</sup>19]. **ETA** [PEM<sup>+</sup>09]. **Evaluating**  
 [LAL13, PB18, WGGR16]. **Evaluation**  
 [BDX<sup>+</sup>19, KY18, LOM10, NJLW14, SMOP15]. **Evaluations** [KGS<sup>+</sup>12].  
**Evolution** [CBC<sup>+</sup>12]. **Evolvable** [DS15]. **Exact** [OROS<sup>+</sup>19]. **Example**  
 [SP20]. **Execution** [DSK15]. **Exotic** [FT17]. **Experiment** [QRDC<sup>+</sup>15].  
**Exploitation** [INF<sup>+</sup>14, MAK<sup>+</sup>12]. **Exploiting**  
 [BDGH15, CA11, EAGEG09, GER19, LCS14, LZ<sup>+</sup>10, MCD<sup>+</sup>18, PVB13].  
**Exploration** [BPF<sup>+</sup>18, 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** [AVCP20, BAG15, BPF<sup>+</sup>18, BDX<sup>+</sup>19, CSK17,  
 HU10, JCGW20, JM14, NW11, UNBR14, YGH<sup>+</sup>18, ZWM19, SSF<sup>+</sup>13, SP20].  
**Fault** [BKT14, JCG<sup>+</sup>12, RLY<sup>+</sup>15]. **Fault-Tolerant** [BKT14, RLY<sup>+</sup>15].  
**FCCM'16** [Bak18]. **FeatherNet** [MHS<sup>+</sup>19]. **Feel** [AB20]. **FEM** [BGSL17].  
**Field** [AC14, CAPA<sup>+</sup>09, DPHT19, SCC10]. **Field-Programmable**  
 [AC14, DPHT19, SCC10]. **FIFOs** [GWPK20]. **Filter** [BPCC09]. **Filtering**  
 [LP15]. **Filters** [CNE<sup>+</sup>15]. **Financial** [TB10]. **Fine**  
 [KD19, RBR16, ZNA<sup>+</sup>18]. **Fine-Grained** [RBR16, ZNA<sup>+</sup>18, KD19].  
**Fingerprint** [XJD<sup>+</sup>16]. **Finite** [NJLW14, SLH<sup>+</sup>10, GDHG11].  
**Finite-Difference** [NJLW14]. **FINN** [BPF<sup>+</sup>18]. **FINN-R** [BPF<sup>+</sup>18]. **FIR**  
 [LP15]. **First** [LAA<sup>+</sup>17]. **Fixed** [RGCL16, WL10, WMG<sup>+</sup>10]. **Fixed-**  
 [WL10]. **flexibility** [LW08]. **Flexible** [DS15, LBRS16, LZ19, MCD<sup>+</sup>18].  
**FlexSaaS** [CNZ<sup>+</sup>18]. **Flight** [QRDC<sup>+</sup>15]. **Floating**  
 [FL16, HU10, OBD13, RC10, USY17, WL10, WS16, dDELVP13].  
**Floating-Point** [FL16, 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]. **Fourier** [SP20]. **FPGA**  
 [AZM<sup>+</sup>19, AVCP20, ABCC09, AB20, BCE<sup>+</sup>10, BAG15, BPDF11, BFBN<sup>+</sup>20,

BDGH15, BE19, BYB18, CA11, Che11, CW09, CCF<sup>+18</sup>, CSK17, CZ09, DW13, DVK15, DHL<sup>+18</sup>, DNL19, DL09, EAAAAA19, FRS<sup>+15</sup>, FLM<sup>+17</sup>, GP13, GWPK20, GFBF12, GMBC17, GSJC13, GER19, GRG08, GHO17, GZY<sup>+18</sup>, HF14, HGLS11, HCOB13, IPC14, JCG<sup>+12</sup>, JRHK15, JCCM09, JM14, KLD16, KLC11, KM10, Kap16, KBM09, KVK<sup>+11</sup>, KMK<sup>+10</sup>, KY18, KAL14, KA17, KGS15, KBT09, KD10, KS20, LA17, LCS14, LW08, LZF<sup>+10</sup>, LGD<sup>+14</sup>, LAL13, LDJ<sup>+17</sup>, LFN<sup>+18</sup>, LT09, LKJ<sup>+11</sup>, MCD<sup>+18</sup>, MAK<sup>+12</sup>, MCN12, MPZ<sup>+20</sup>, MHS09, NNY12, PWP<sup>+16</sup>, PDH11, PABI09, PMKM11, PB18, PBPLA17, RC10, SLH<sup>+10</sup>, SB15, SC08, SV09, TL11, Tho15, TB10, USY17, UNBR14, WTS19, WYZ16, WHQ<sup>+08</sup>, WGGR16, WGGR17, XCG<sup>+09</sup>, YXC<sup>+11</sup>, YB18, YOY17, YGH<sup>+18</sup>, ZBR12, ZZJB13, ZQ19]. **FPGA** [ZBC<sup>+09</sup>, ZNA<sup>+18</sup>, ZBB<sup>+16</sup>]. **FPGA-accelerated** [BE19]. **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, ZNA<sup>+18</sup>, ZBB<sup>+16</sup>, GZY<sup>+18</sup>, WTS19, YXC<sup>+11</sup>, ZBR12, ZQ19]. **FPGAs** [AB14, AKA09, AHAM<sup>+19</sup>, AJYH18, BKT14, BAMR10, BNW<sup>+10</sup>, BPCC09, BHB14, CAPA<sup>+09</sup>, CBFM14, CPW18, CXG<sup>+12</sup>, CPN<sup>+09</sup>, CFBS15, DH08, DLCJ20, DDH<sup>+11</sup>, DD15, DGP<sup>+15</sup>, DGP10, DB15, FL16, HU10, HBA<sup>+15</sup>, KG17, KGT19, LLO<sup>+14</sup>, LOM10, LGW<sup>+14</sup>, MHK<sup>+08</sup>, MMMT09, MVGB15, MSSM10, MHS<sup>+19</sup>, OKA19, PANBI11, PVA<sup>+09</sup>, PVB13, RVHP16, RLM<sup>+17</sup>, RDB<sup>+18</sup>, RHLK18, SGM09, SSF<sup>+13</sup>, SPS12, SB08, Ste10, SDM<sup>+18</sup>, SSC16, SMOP15, TYB18, VMV15, WSC09, WAT15]. **FPL** [BGSL17, YFW<sup>+17</sup>, CDM15, CS17, LAA<sup>+17</sup>]. **FPT'12** [AC14]. **Framework** [ASGY12, BPF<sup>+18</sup>, CKG<sup>+10</sup>, JCG<sup>+12</sup>, JRHK15, LZ19, RGGW10, UAS16, VTN09, WPSI18, WGGR16, HLL08, SSF<sup>+13</sup>, SPS12]. **Free** [AB20, GWPK20]. **Frequent** [PBPLA17, ZZJB13]. **FRoC** [AZM<sup>+19</sup>]. **FSM** [GDHG11]. **FT** [WTS19]. **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]. **Gaps** [BYB18]. **Gate** [DPHT19, SCC10]. **Gaussian** [SBC10, TL08, Tho15]. **General** [AJYH18, GFBF12]. **General-Purpose** [AJYH18]. **Generalized** [ZWM19]. **Generated** [HLC<sup>+15</sup>, LP15]. **Generating** [BMR16, GNM<sup>+15</sup>]. **Generation** [BS15, LGW<sup>+14</sup>, MWK<sup>+12</sup>, SP20, SCC10, TL08, GL08]. **Generator** [GHO17, SBC10, SSC16, Tho15]. **Generators** [RVHP16]. **Genomes** [AVCP20]. **Global** [GFL<sup>+15</sup>, JSC14]. **GPP** [TB10]. **GPU** [TB10]. **GPUs** [AJYH18, BNW<sup>+10</sup>, CFBS15]. **Gradient** [RC10]. **Grain** [IZO<sup>+10</sup>]. **Grained** [RBR16, VL11, XJD<sup>+16</sup>, ZNA<sup>+18</sup>, KD19]. **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** [ADSH18, AV13, BPDF11, BS15, CBC<sup>+</sup>12, CBR<sup>+</sup>14, CZ09, DD18, DLCJ20, DS15, GPP08, HHSC10, HLC<sup>+</sup>15, HLN<sup>+</sup>10, IBH<sup>+</sup>15, KBT09, MOG<sup>+</sup>13, MCC10, PD15, PSM<sup>+</sup>14, SBC10, SP20, TL08, TOS17, WL10, YBS16, ZG16, BG08, HH13, SC11]. **Hardware-Accelerated** [MCC10]. **Hardware-Based** [HLN<sup>+</sup>10]. **Hardware/Software** [HHSC10, HH13, SC11]. **Hash** [IABV15]. **Healing** [BHI15]. **healthier** [ZH12]. **Heap** [BAG15]. **Heap-Based** [BAG15]. **heterogeneity** [LKJ<sup>+</sup>11]. **Heterogeneous** [ASGY12, AHL<sup>+</sup>14, BPCC09, CNE<sup>+</sup>15, CCF<sup>+</sup>18, GFL<sup>+</sup>15, KSCC10, KP14, OVI<sup>+</sup>12, TZWZ15, UAS16, YB18, PMKM11, SPS12]. **Hiding** [MMMT09, THK12]. **Hierarchies** [YFW<sup>+</sup>17]. **High** [BGS17, BS15, CH10, CKG<sup>+</sup>10, DHL<sup>+</sup>18, EAGEG09, HNS<sup>+</sup>10, HLC<sup>+</sup>15, IPC10, MH15, MPZ<sup>+</sup>20, NBS13, OROS<sup>+</sup>19, PBBP18, RC10, SPM<sup>+</sup>10, SGM09, SSC16, TB10, USY17, WBC16, WBR18, ZBC<sup>+</sup>09, MAK<sup>+</sup>12, PANBI11]. **High-Accuracy** [DHL<sup>+</sup>18]. **High-Efficiency** [PBBP18]. **High-Level** [CKG<sup>+</sup>10, HLC<sup>+</sup>15, IPC14, NBS13, OROS<sup>+</sup>19, WBC16]. **High-Order** [BGS17]. **High-Performance** [CH10, EAGEG09, HNS<sup>+</sup>10, MH15, SPM<sup>+</sup>10, SSC16, TB10, USY17, WBR18, MPZ<sup>+</sup>20, PANBI11]. **High-Speed** [BS15, ZBC<sup>+</sup>09]. **high-throughput** [MAK<sup>+</sup>12]. **Highly** [DLBM18]. **HLS** [JCGW20]. **HMAC** [MAK<sup>+</sup>12]. **Homogeneous** [LAL13]. **Hoplite** [KG17]. **HopliteBuf** [GWPK20]. **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, SDM<sup>+</sup>18]. **Images** [TZWZ15]. **Impact** [HBA<sup>+</sup>15, KLD16]. **Implementation** [AV13, BAG15, DNLI9, 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** [BYB18, LZF<sup>+</sup>10, SDG12]. **Improved** [GHO17, JCCM09]. **Improving** [LZ19, YKBS10]. **In-Circuit** [KS20]. **In-Depth** [CCF<sup>+</sup>18]. **In-the-Cloud** [BDX<sup>+</sup>19]. **Incremental** [GGR<sup>+</sup>18, GL08]. **Independent** [PMC<sup>+</sup>14]. **Index** [BAG15]. **Index-Aware** [BAG15]. **Inference** [BYB18, GZY<sup>+</sup>18, MCD<sup>+</sup>18, OKA19, RHLK18]. **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, WBR18, YGH<sup>+</sup>18]. **Instruction-Set** [GB11]. **Instructions** [LCS14]. **Integration** [GS10, JRHK15, LRA13, YBS16]. **Intensive** [ZG16]. **Interactions** [KD19]. **Interconnect** [FK08, RBR16, SPS12]. **Interconnects** [KS20]. **Interface** [JB15, RUC11]. **Internal** [HBA<sup>+</sup>15]. **International** [AC14, DH08, VG14]. **Interrupt** [AB20]. **Intra** [GNM<sup>+</sup>15, HF14]. **Intra-cluster** [GNM<sup>+</sup>15]. **Intra-Masking** [HF14]. **Intrinsic** [MHK<sup>+</sup>08]. **Introduction** [AC14, Bak18, Bec14, BE19, BL08, CS17, Che16, CPW18,



Che11, CWBD09, DC16, GC13, Hüb12, SJT09, VG14, AN09]. **Introspection** [GGR<sup>+</sup>18]. **Invariant** [PD15]. **IP** [IZO<sup>+</sup>10]. **IPs** [EAAAA19]. **IR** [ZG16]. **Isolated** [MMMT09]. **Issue** [AC14, CWBD09, DC16, Hüb12, VG14]. **Itemset** [ZZJB13]. **Itemsets** [PBPLA17]. **Iterative** [LZ19, BC11].

**JIT** [BPDF11]. **JITPR** [SSF<sup>+</sup>13]. **Join** [YOY17]. **Junction** [TYB18]. **Junction-Based** [TYB18].

**KAPow** [DHL<sup>+</sup>18]. **Kernel** [FLM<sup>+</sup>17, FL20, PWP<sup>+</sup>16]. **Kernels** [JB15]. **Key** [ADSH18, GFBF12]. **KLT** [DB15]. **Knowledge** [GNM<sup>+</sup>15].

**Lab** [MCN12, GNM<sup>+</sup>15]. **LambdaRank** [YXC<sup>+</sup>11]. **Language** [CKG<sup>+</sup>10, SDM<sup>+</sup>18]. **Large** [CSK17, KM10, MWL<sup>+</sup>15]. **Large-Scale** [CSK17]. **Latencies** [BAMR13]. **Latency** [THK12]. **Layer** [IBH<sup>+</sup>15, YGH<sup>+</sup>18]. **Layout** [KY18]. **LDPC** [CA11]. **Leakier** [GER19]. **Learning** [AHAM<sup>+</sup>19, BPF<sup>+</sup>18, CPW18, MCN12, RHLK18]. **Least** [FLM<sup>+</sup>17, FL20, PWP<sup>+</sup>16]. **Length** [LRA13, EA11]. **Level** [ASGY12, CKG<sup>+</sup>10, DD18, DS15, DL09, GSJC13, HLC<sup>+</sup>15, IPC14, NBS13, OROS<sup>+</sup>19, PVB13, WBC16, CA11, KGT19]. **Leveraging** [SC11]. **libraries** [KVK<sup>+</sup>11]. **Library** [FL16, WL10]. **Licensing** [EAAAA19]. **Lightening** [DLBM18]. **LightNNs** [DLBM18]. **Lightweight** [RD11]. **Line** [IABV15]. **Line-Rate** [IABV15]. **Linear** [WGGR17, ZBR12]. **Linux** [MSF16]. **Lists** [WAT15]. **Lithographic** [CZ09]. **Load** [DLBM18, THK12, RD11]. **load-time** [RD11]. **Local** [JSC14]. **Logarithm** [GPP08]. **Logarithmic** [BPDF11]. **Logarithmic-Time** [BPDF11]. **Logic** [AZM<sup>+</sup>19, DGP10, IZO<sup>+</sup>10, MHS09, PABI09, WBC16, KD19, MBBJ11, PMKM11]. **Long** [GER19, UHU09]. **Loop** [DSB09, DPHT19]. **Loops** [PMC<sup>+</sup>14, PFC15]. **Low** [DHL<sup>+</sup>18, DS15, DPHT19, 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** [DPHT19, ZH12]. **Low-Level** [DS15]. **Low-Overhead** [DHL<sup>+</sup>18, KGS15]. **Low-Power** [KBM09, KCC<sup>+</sup>14, ZBC<sup>+</sup>09]. **Low-Speed** [HBA<sup>+</sup>15]. **LUT** [FK08, HF14, JCCM09, LZ19]. **LUT-Based** [LZ19].

**Machine** [AHAM<sup>+</sup>19, KAL14, GDHG11]. **Magnetic** [TYB18]. **Major** [FL16]. **Management** [BBND10, KP14, LP15, HZW<sup>+</sup>13]. **Manager** [OWMZ11]. **Mapping** [BBND10, CTH16, CNE<sup>+</sup>15, CM14, CBR<sup>+</sup>14, JSC14, JCCM09, LZ19, MCL<sup>+</sup>13, KVK<sup>+</sup>11]. **Mapping-Scheduling** [CBR<sup>+</sup>14]. **MARTE** [GdLIG<sup>+</sup>14]. **Masking** [HF14]. **Massively** [JB15]. **Matching** [XJD<sup>+</sup>16]. **Matchings** [BFBN<sup>+</sup>20]. **Matrices** [RC10]. **Matrix** [DDB<sup>+</sup>10, UCR<sup>+</sup>19, BC11]. **Matrix-Vector** [DDB<sup>+</sup>10, BC11]. **Maximum** [BFBN<sup>+</sup>20, RLY<sup>+</sup>15]. **Mean** [FLM<sup>+</sup>17, FL20]. **Means** [TK16]. **Measure** [BYB18]. **Measurement** [WSC09]. **Mechanism** [SLH<sup>+</sup>10, SMOP15]. **Memories** [AL16, BDGH15, DD15, LLO<sup>+</sup>14]. **Memory** [BAMR10, BAMR13, CW09, HF14, JB15, KLD16, LYZ<sup>+</sup>18, MSF16, PFC15,

RGCL16, THK12, WBR16, YFW<sup>+17</sup>, BC11, LJS11]. **Mercury** [JLB<sup>+08</sup>].  
**Merged** [GRG08]. **Merging** [JCCM09, KD10, LCS14]. **Meshes** [BGSL17].  
**Message** [Che19]. **Method** [NJLW14]. **Methodology** [DGP<sup>+15</sup>, LBRS16].  
**Methods** [AHAM<sup>+19</sup>, KSCC10, SLH<sup>+10</sup>, BC11]. **Metrics** [RGCL16]. **MHz**  
 [WBR16]. **Microarchitectural** [LA17]. **Microarchitecture** [WBR16].  
**Microarchitectures** [CCF<sup>+18</sup>]. **MicroBlaze** [MSF16]. **Microcoded**  
 [GRG08, PWP<sup>+16</sup>]. **Microkernel** [IBH<sup>+15</sup>]. **Microscopy** [TZWZ15].  
**Middleware** [KGS15]. **Minimum** [KY18]. **Minimum-Width** [KY18].  
**Mining** [PBPLA17, ZZJB13]. **Minor** [CM14]. **Mitigating** [KGT19]. **Mixed**  
 [AB14]. **mobile** [NSS<sup>+11</sup>]. **MOdel**  
 [KGS<sup>+12</sup>, AHL<sup>+14</sup>, DLCJ20, FL20, LAL13, MOG<sup>+13</sup>, MVGB15, SPM<sup>+10</sup>,  
 YBS16, AGY<sup>+11</sup>, DW13, HGLS11, PDH11]. **MOdel-Based**  
 [KGS<sup>+12</sup>, DLCJ20]. **Modeling** [GdLIG<sup>+14</sup>, PVA<sup>+09</sup>, SC08]. **Modelling**  
 [MPZ<sup>+20</sup>, YB18]. **Models** [JTLC09, KY18]. **Modern** [AHAM<sup>+19</sup>, CCF<sup>+18</sup>].  
**MODES** [KGS<sup>+12</sup>]. **Modifications** [SDG12]. **Modular**  
 [AL16, IPC14, NBS13, OWMZ11]. **Module**  
 [DHL<sup>+18</sup>, KD10, SGM09, ZNA<sup>+18</sup>]. **Module-Based** [KD10, ZNA<sup>+18</sup>].  
**Modulo** [BAMR10, OROS<sup>+19</sup>]. **Molecular** [CH10]. **Monitoring**  
 [BCE<sup>+10</sup>, GGR<sup>+18</sup>]. **Monte** [TB10]. **MPI** [SPM<sup>+10</sup>]. **MPSoC**  
 [BHI15, PSM<sup>+14</sup>]. **MPSoCs** [DSK15, KP14, OVI<sup>+12</sup>]. **MRAM** [ZBC<sup>+09</sup>].  
**Multi**  
 [CAPA<sup>+09</sup>, GMBC17, HGLS11, JSC14, KGT19, LLO<sup>+14</sup>, LYZ<sup>+18</sup>, WMG<sup>+10</sup>].  
**Multi-Agent** [GMBC17]. **Multi-Application** [JSC14]. **Multi-Core**  
 [WMG<sup>+10</sup>]. **Multi-FPGA** [HGLS11]. **Multi-Input** [CAPA<sup>+09</sup>].  
**Multi-Pattern** [LYZ<sup>+18</sup>]. **Multi-Ported** [LLO<sup>+14</sup>]. **Multi-Tenant**  
 [KGT19]. **Multicontext** [VL11]. **Multicore** [MSF16, SDG12]. **Multicores**  
 [AHL<sup>+14</sup>, CFBS15]. **Multidimensional** [SB15]. **MultiFactor** [KLC11].  
**Multigigabit** [PP10]. **multilevel** [AGY<sup>+11</sup>, HGLS11]. **multilevel-PGAS**  
 [AGY<sup>+11</sup>]. **Multimedia** [DSK15]. **Multiple** [MHK<sup>+08</sup>]. **Multiplication**  
 [DDB<sup>+10</sup>, UCR<sup>+19</sup>, BC11]. **Multiplier** [HCOB13]. **Multipliers** [HU10].  
**Multiported** [AL16]. **Multiprocessor** [CPN<sup>+09</sup>]. **Multiprocessors**  
 [PPR<sup>+10</sup>]. **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**  
 [BYB18, CTH16, GWPK20, GMBC17, GZY<sup>+18</sup>, JSC14, KAL14, MHS<sup>+19</sup>].  
**Network-on-Chip** [CTH16, JSC14]. **Networks**  
 [AB14, BPF<sup>+18</sup>, CSK17, KD10, LDJ<sup>+17</sup>, LL12, MVGB15, PVA<sup>+09</sup>,  
 PBBP18, SP20, TKH<sup>+19</sup>, HZW<sup>+13</sup>, LW08]. **Networks-on-Chip**  
 [AB14, CSK17]. **NEURAghe** [MCD<sup>+18</sup>]. **Neural**  
 [BPF<sup>+18</sup>, BYB18, GZY<sup>+18</sup>, KAL14, LDJ<sup>+17</sup>, MHS<sup>+19</sup>, PBBP18, TKH<sup>+19</sup>].  
**Next** [LGW<sup>+14</sup>]. **Nine** [NW11]. **Nine-Context** [NW11]. **NoC**  
 [KG17, KP14]. **NoC-Based** [KP14]. **NoCs** [GWPK20]. **Normalised**

[FLM<sup>+</sup>17, FL20]. **Novel** [AHAM<sup>+</sup>19, DNL19, EWL15, VL11, SPS12]. **NPN** [ZWM19]. **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]. **On-cloud** [EAAAA19]. **Online** [DHL<sup>+</sup>18, GGR<sup>+</sup>18]. **Only** [BDX<sup>+</sup>19]. **onto** [SSF<sup>+</sup>13]. **Open** [FL16, SGNB08]. **Open-Source** [FL16, SGNB08]. **OpenCL** [TK16, WTS19]. **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, LZ19, LP15, LT09, WYZ16, YB18, MBJJ11]. **Optimizations** [HLC<sup>+</sup>15]. **Optimized** [GS10, LDJ<sup>+</sup>17, SBC10, YFW<sup>+</sup>17]. **Optimizing** [BAMR13, BC11, Kap16, LFN<sup>+</sup>18, UCR<sup>+</sup>19, WGGR16, WGGR17]. **Option** [JTLC09]. **Options** [FT17]. **Order** [BGSL17, WBR16, WBR18]. **Oriented** [TL11, VL11, WHQ<sup>+</sup>08]. **Oscillator** [YKBS10, ZH12]. **Out-of-Order** [WBR16, WBR18]. **Over-Clocking** [DB15]. **Overclocking** [SBC15]. **Overhead** [DHL<sup>+</sup>18, KGS15]. **Overlays** [JCGW20, LA17]. **own** [RD11].

**Packing** [AKA09]. **Papers** [LAA<sup>+</sup>17]. **Parallel** [AV13, BAG15, JB15, SB15, SDM<sup>+</sup>18, SSC16, TZWZ15, YOY17]. **Parallelism** [INF<sup>+</sup>14, KLD16, PVB13, CA11]. **Parallelized** [LZ19]. **Parallelizing** [WAT15]. **parameters** [DW13]. **Parametric** [SC08]. **Parser** [LBR16]. **Parser-Based** [LBR16]. **Partial** [EAGEG09, GFBF12, GGR<sup>+</sup>18, RDB<sup>+</sup>18, PDH11]. **Partial-Reconfiguration** [GGR<sup>+</sup>18]. **Partially** [HHSC10, KMK<sup>+</sup>10, HH13]. **Particle** [BG08, CNE<sup>+</sup>15]. **Partition** [BS15]. **Partitioning** [LYZ<sup>+</sup>18, TL11]. **Pattern** [LYZ<sup>+</sup>18]. **Pay** [EAAAA19]. **Pay-per-use** [EAAAA19]. **Pentium(R)** [LYS<sup>+</sup>08]. **Per-Module** [DHL<sup>+</sup>18]. **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, WPSI18, WBR18, WGGR17, BC11, GP13, HGSL11, MPZ<sup>+</sup>20, PANBI11]. **Performance-Oriented** [TL11]. **Perl** [LT09]. **Perturb** [GL08]. **PEs** [GRG08]. **PGAS** [AGY<sup>+</sup>11]. **Physical** [INF<sup>+</sup>14, MVGB15, SMOP15]. **PIMap** [LZ19]. **Pinch** [DGP10]. **Pipelined** [KAL14, SV09, YOY17]. **pixel** [Oli12]. **Placement** [FRS<sup>+</sup>15, GSJC13, HHSC10, MVGB15, MSSM10, Ste10, GL08]. **Platform** [BDX<sup>+</sup>19, KSG11, KD19, NNY12]. **Platform-aware** [KSG11]. **Platforms** [CCF<sup>+</sup>18, CBR<sup>+</sup>14, GFL<sup>+</sup>15, GKM<sup>+</sup>12, RMSK16, SAD10]. **Point** [FL16, HU10, KD10, OBD13, RC10, USY17, WL10, WS16, dDELVP13]. **Point-to-Point** [KD10]. **Polar** [DLCJ20]. **Policy** [SDG12]. **Port** [PVA<sup>+</sup>09]. **Portability** [KGS15]. **Portable** [WS16, ZBR12]. **Ported** [LLO<sup>+</sup>14].

**Positive** [AVCP20]. **POWer** [KGS<sup>+12</sup>, CXG<sup>+12</sup>, DHL<sup>+18</sup>, KBM09, KCC<sup>+14</sup>, KP14, LAL13, MMMT09, SLH<sup>+10</sup>, UNBR14, WGGR17, ZBC<sup>+09</sup>, EA11, LW08, KGS<sup>+12</sup>]. **power-aware** [EA11]. **Power-Efficient** [SLH<sup>+10</sup>]. **POWer-EmulatoR-** [KGS<sup>+12</sup>]. **POWER-MODES** [KGS<sup>+12</sup>]. **Practical** [OROS<sup>+19</sup>]. **Precision** [FL16, LGD<sup>+14</sup>, WL10, Oli12]. **Predicting** [MOG<sup>+13</sup>]. **Prediction** [HNG09, AHAM<sup>+19</sup>, HGLS11]. **Preemption** [RDB<sup>+18</sup>]. **Preserving** [PVA<sup>+09</sup>, RHLK18]. **Pricing** [FT17, JTLC09, KLC11]. **Primitives** [HLN<sup>+10</sup>]. **Priority** [BAG15, KVK<sup>+11</sup>]. **Privacy** [RHLK18]. **Privacy-Preserving** [RHLK18]. **Problem** [GB11, GPP08]. **Problems** [KM10]. **Process** [DB15, RDB<sup>+18</sup>, SB08, LKJ<sup>+11</sup>, SC11]. **Processing** [BDX<sup>+19</sup>, BHB14, IABV15, Kap16, LP15, MVGB15, SDM<sup>+18</sup>, SSC16, WAT15, YEC<sup>+09</sup>, ZBB<sup>+16</sup>]. **Processor** [CBFM14, KCC<sup>+14</sup>, KD19, LA17, MWK<sup>+12</sup>, PWP<sup>+16</sup>, Tak17, WBR16, YEC<sup>+09</sup>, Tak12]. **Processor-logic** [KD19]. **Processors** [FLM<sup>+17</sup>, GFBF12, VTN09, WPSI18, WBR18, IYY<sup>+11</sup>, LJS11]. **Production** [UHU09]. **Productivity** [KGS15]. **Profiling** [EWL15]. **Profiling-Based** [EWL15]. **Program** [PD15]. **Program-Invariant** [PD15]. **Programmability** [GKM<sup>+12</sup>]. **Programmable** [AC14, CAPA<sup>+09</sup>, DPHT19, GS10, OWMZ11, SCC10]. **Programming** [MWK<sup>+12</sup>, SPM<sup>+10</sup>, WGGR17, AGY<sup>+11</sup>]. **Protected** [BDGH15, SG15]. **Protection** [EAAAA19]. **Protein** [JLB<sup>+08</sup>]. **Protocol** [ADSH18]. **ProtoFlex** [CPN<sup>+09</sup>]. **Provably** [GWPK20]. **PUF** [GHO17]. **PUFs** [MKP09]. **Pulsar** [WTS19]. **Pulses** [PEM<sup>+09</sup>]. **Purpose** [AJYH18, GFBF12, GPP08, LGD<sup>+14</sup>]. **Purposes** [BHI15].

**Quantized** [BPF<sup>+18</sup>]. **Quasi** [TB10]. **Quasi-Monte** [TB10]. **Query** [ZBB<sup>+16</sup>]. **Queue** [BAG15]. **Quipu** [MOG<sup>+13</sup>].

**R** [BPF<sup>+18</sup>, PP10]. **R3TOS** [IBH<sup>+15</sup>]. **Radiations** [SGM09]. **Radio** [PEM<sup>+09</sup>]. **Rail** [HF14]. **RAiSD** [AVCP20]. **RAiSD-X** [AVCP20]. **RAMs** [TYB18]. **Random** [LOM10, RVHP16, SBC10, TL08, Tho15]. **Randomized** [DL09]. **RankBoost** [XCG<sup>+09</sup>]. **Ranking** [KY18]. **Rapid** [HNG09, RGGW10, WPSI18]. **RAT** [HNG09]. **Rate** [IABV15]. **RAW** [GC13, RVHP16]. **RC** [HNG09]. **Real** [ABCC09, BHB14, GNM<sup>+15</sup>, HHSC10, INF<sup>+14</sup>, IBH<sup>+15</sup>, RDB<sup>+18</sup>, RMSK16, RHLK18]. **Real-Time** [ABCC09, BHB14, HHSC10, INF<sup>+14</sup>, IBH<sup>+15</sup>, RDB<sup>+18</sup>, RMSK16, RHLK18]. **Realizable** [RGCL16]. **Realizable-Utilization** [RGCL16]. **Recipes** [DGP10]. **Recoding** [ZCL15]. **Recognition** [DDH<sup>+11</sup>]. **reconfigurability** [SC11]. **Reconfigurable** [ASGY12, ADSh18, AV13, ATJZ16, BBND10, Bec14, BHI15, BDX<sup>+19</sup>, BHB14, CBC<sup>+12</sup>, CNZ<sup>+18</sup>, CTH16, CNE<sup>+15</sup>, CH10, CBR<sup>+14</sup>, CKG<sup>+10</sup>, DC16, DGP<sup>+15</sup>, DSB09, DDB<sup>+10</sup>, EAGEG09, FT17, FKS<sup>+12</sup>, GFL<sup>+15</sup>, GKM<sup>+12</sup>, GC13, GdLIG<sup>+14</sup>, HCOB13, HHSC10, HNS<sup>+10</sup>, HLN<sup>+10</sup>, IZO<sup>+10</sup>, IBH<sup>+15</sup>, JCG<sup>+12</sup>, JTLC09, KMK<sup>+10</sup>, KCC<sup>+14</sup>,

LYS<sup>+08</sup>, MH15, MKP09, MWK<sup>+12</sup>, MSSM10, NNY12, NBS13, NJLW14, Oli12, PP10, PD15, PFC15, RGGW10, RGCL16, RMSK16, RUC11, SPM<sup>+10</sup>, SJT09, SAD10, TL11, THK12, TL08, UAS16, UCR<sup>+19</sup>, UHU09, VL11, VTN09, VG14, WL10, WMG<sup>+10</sup>, ZBB<sup>+16</sup>, dDELVP13, AGY<sup>+11</sup>, BG08, GDHG11, HLL08, HH13, IYY<sup>+11</sup>, KSG11, ZH12]. **Reconfiguration** [BDX<sup>+19</sup>, DS15, EAGEG09, GFBF12, GGR<sup>+18</sup>, HNS<sup>+10</sup>, JSC14, KD10, KS20, LCS14, LZF<sup>+10</sup>, NW11, NCJ<sup>+15</sup>, PPR<sup>+10</sup>, RLY<sup>+15</sup>, RDB<sup>+18</sup>, VMV15, ZBC<sup>+09</sup>, NSS<sup>+11</sup>, PDH11]. **Reconstruction** [TZWZ15]. **ReCoSoC** [Hüb12]. **ReCoSoC'12** [VG14]. **Recovery** [ZNA<sup>+18</sup>]. **Recursive** [PWP<sup>+16</sup>]. **ReDCrypt** [RHLK18]. **Reduce** [PSM<sup>+14</sup>]. **Reducing** [BAMR10, TOS17]. **Reduction** [CW09, SLH<sup>+10</sup>]. **References** [BAMR13]. **Regular** [LT09]. **Regulator** [AV13]. **Related** [OBD13]. **relating** [DW13]. **Reliability** [DSK15, GHO17]. **Reliable** [IBH<sup>+15</sup>, JCG<sup>+12</sup>]. **Relocatable** [HHSC10]. **Remote** [BCE<sup>+10</sup>, MCN12, VMV15]. **Repair** [GGR<sup>+18</sup>]. **Replacing** [HBA<sup>+15</sup>]. **ReShape** [NBS13]. **Reshaping** [BHI15]. **Resilient** [INF<sup>+14</sup>]. **Resistant** [HF14]. **Resolution** [ABCC09, SGM09]. **Resource** [MHS<sup>+19</sup>, HZW<sup>+13</sup>]. **Resource-constrained** [MHS<sup>+19</sup>]. **Resources** [MOG<sup>+13</sup>]. **Restricted** [KAL14]. **resynthesis** [MBJJ11]. **Retargetable** [UAS16]. **Reusable** [JRHK15]. **Reuse** [LYZ<sup>+18</sup>]. **RIFFA** [JRHK15]. **Ring** [YKBS10, ZH12]. **RIPL** [SDM<sup>+18</sup>]. **RIVER** [BHB14]. **RNA** [MCC10]. **Road** [UHU09]. **robotics** [NSS<sup>+11</sup>]. **Robust** [ABCC09]. **Robustness** [LZF<sup>+10</sup>, YKBS10]. **Rotation** [ZCL15]. **Routability** [AHAM<sup>+19</sup>, JCCM09, LRA13, PB18, DW13, EA11]. **Routability-Driven** [LRA13, EA11]. **Routability-prediction** [AHAM<sup>+19</sup>]. **Routed** [KG17]. **Router** [LL12]. **routers** [GP13]. **Routing** [CW09, FRS<sup>+15</sup>, IZO<sup>+10</sup>, KA17, SB08, WYZ16, GL08, LKJ<sup>+11</sup>, RD11]. **RTL** [DVH<sup>+15</sup>]. **RTR** [ZBC<sup>+09</sup>]. **Run** [DNL19]. **Run-Time** [DNL19]. **Runtime** [EAGEG09, FRS<sup>+15</sup>, LCS14, NCJ<sup>+15</sup>, PPR<sup>+10</sup>, ZBC<sup>+09</sup>].

**Safe** [AB20, BHI15]. **Samsung** [KCC<sup>+14</sup>]. **SARFUM** [BCE<sup>+10</sup>]. **SAT** [KM10]. **SATTA** [DGP<sup>+15</sup>]. **SCA** [HF14]. **SCA-Resistant** [HF14]. **Scala** [SP20]. **Scalability** [Tak17]. **Scalable** [CPN<sup>+09</sup>, MBJJ11, OWMZ11, SLH<sup>+10</sup>, ZBR12]. **Scalar** [TOS17]. **Scale** [CSK17]. **Scaling** [AZM<sup>+19</sup>, NNY12, LKJ<sup>+11</sup>]. **Scavenger** [YFW<sup>+17</sup>]. **SCF** [ASGY12]. **Scheduling** [BAMR10, CBR<sup>+14</sup>, HHSC10, HNS<sup>+10</sup>, OROS<sup>+19</sup>, WBR18]. **Scheme** [EAAAA19]. **Schemes** [OBD13, SV09]. **Science** [UHU09]. **Scientific** [RUC11]. **SDK** [TK16]. **SDM** [LL12]. **Search** [CNZ<sup>+18</sup>, WTS19, XCG<sup>+09</sup>, YXC<sup>+11</sup>]. **Searching** [PEM<sup>+09</sup>]. **Secondary** [MCC10]. **Secondary-Structure** [MCC10]. **Section** [Bak18, Bec14, BE19, CS17, CPW18, Che11, GC13]. **Secure** [GFBF12, KGT19, MKP09, VMV15]. **Security** [BCE<sup>+10</sup>, BE19, HLN<sup>+10</sup>, KGS<sup>+12</sup>, SJT09, SMOP15]. **Segmentation** [LFN<sup>+18</sup>]. **Selection** [AVCP20, CNZ<sup>+18</sup>]. **Self**

[AHL<sup>+</sup>14, AV13, Bec14, BKT14, BHI15, GGR<sup>+</sup>18, HCOB13, LZF<sup>+</sup>10, NJLW14, OBD13, PMC<sup>+</sup>14, WSC09, DGP<sup>+</sup>15]. **Self-Adaption** [BHI15]. **Self-Adaptive** [PMC<sup>+</sup>14, DGP<sup>+</sup>15]. **Self-Alignment** [OBD13]. **Self-Aware** [BKT14, NJLW14]. **Self-Awareness** [AHL<sup>+</sup>14, Bec14]. **Self-Healing** [BHI15]. **Self-Measurement** [WSC09]. **Self-Monitoring** [GGR<sup>+</sup>18]. **Self-Reconfigurable** [HCOB13]. **Self-Reconfiguration** [LZF<sup>+</sup>10]. **Self-Tuning** [AV13]. **Semisynthetic** [GL08]. **sensing** [ZH12]. **Separable** [LP15]. **Separation** [WBC16]. **Sequence** [JLB<sup>+</sup>08]. **Sequences** [PBPLA17]. **Serial** [UCR<sup>+</sup>19]. **Set** [GB11]. **SHA** [MAK<sup>+</sup>12]. **SHA-256** [MAK<sup>+</sup>12]. **Shared** [MSF16]. **Shifter** [WAT15]. **Shifting** [DSB09]. **SHMEM** [AGY<sup>+</sup>11]. **Side** [GER19, SG15]. **Side-Channel** [SG15, GER19]. **Signal** [BHB14, DDH<sup>+</sup>11, SSC16]. **signatures** [LJS11]. **Significant** [LAA<sup>+</sup>17]. **Silicon** [UHU09, WHQ<sup>+</sup>08]. **Simulation** [CZ09, MVGB15, RGGW10, TB10]. **Simulations** [CH10, CPN<sup>+</sup>09, MHS09, SLH<sup>+</sup>10, SC08]. **Single** [CSK17, LKJ<sup>+</sup>11]. **single-driver** [LKJ<sup>+</sup>11]. **Skew** [SB08]. **Sliding** [CFBS15, SSC16]. **Sliding-Window** [CFBS15, SSC16]. **SMP** [MSF16]. **SoC** [LBR16]. **SoCs** [MCD<sup>+</sup>18, WGGR16]. **Soft** [AB14, AJYH18, CBFM14, DVK15, Kap16, LA17, PD15, TOS17, WPSI18, WBR16, WBR18, YEC<sup>+</sup>09, LJS11]. **Soft-Error** [DVK15, PD15]. **Soft-Processor** [LA17]. **Software** [HHSC10, HH13, SC11]. **solver** [ZBR12]. **Solving** [GFL<sup>+</sup>15, GPP08, KM10]. **Sorting** [SP20]. **Source** [DC16, FL16, SGNB08]. **Space** [JCG<sup>+</sup>12, LZF<sup>+</sup>10, LT09, HLL08]. **Sparse** [DDB<sup>+</sup>10]. **Spatial** [SGM09, ZG16]. **Special** [Bak18, Bec14, BE19, CS17, CPW18, CWBD09, DH08, DC16, GPP08, Hüb12, LGD<sup>+</sup>14, VG14, Che11, GC13, AC14]. **Special-Purpose** [GPP08, LGD<sup>+</sup>14]. **Specialization** [DVH<sup>+</sup>15]. **Specific** [DDH<sup>+</sup>11, PMKM11, RLM<sup>+</sup>17, WYZ16, LJS11]. **Speculation** [CTH16, THK12]. **Speed** [BS15, HBA<sup>+</sup>15, NW11, ZBC<sup>+</sup>09]. **SQL** [ZBB<sup>+</sup>16]. **Squares** [FLM<sup>+</sup>17, FL20, PWP<sup>+</sup>16]. **SRAM** [AL16, LZF<sup>+</sup>10, Ste10]. **SRAM-Based** [AL16, LZF<sup>+</sup>10, Ste10]. **SRCS'12** [Bec14]. **SRP** [KCC<sup>+</sup>14]. **staged** [KVK<sup>+</sup>11]. **Stall** [GWPK20]. **Stall-Free** [GWPK20]. **Standard** [KA17]. **State** [ZG16, GDHG11]. **States** [BAMR13]. **Static** [CW09, LAL13]. **Statistical** [CXG<sup>+</sup>12, MOG<sup>+</sup>13, SB08]. **Stealing** [RLM<sup>+</sup>17]. **Stencil** [JB15]. **Step** [BPDF11]. **Stereo** [JM14]. **Stopping** [AB20]. **Storage** [DLBM18]. **Storage-** [DLBM18]. **Strategies** [MCL<sup>+</sup>13]. **Strategy** [KMK<sup>+</sup>10]. **Stratix** [SMOP15, SMOP15]. **Stream** [PBPLA17]. **Streaming** [DD18, PVB13, RMSK16]. **Streams** [USY17]. **Strongly** [ATJZ16]. **Structure** [LGD<sup>+</sup>14, MCC10]. **Structures** [DL09]. **Study** [BNW<sup>+</sup>10, NSS<sup>+</sup>11]. **Substream** [BFBN<sup>+</sup>20]. **Substream-Centric** [BFBN<sup>+</sup>20]. **Super** [ABCC09]. **Super-Resolution** [ABCC09]. **Supercomputer** [DDB<sup>+</sup>10]. **Supercomputing** [UHU09, AGY<sup>+</sup>11]. **SuperDragon** [TZWZ15]. **Superscalar** [WBR18]. **Support** [GdLIG<sup>+</sup>14, MSF16, PSM<sup>+</sup>14, PBPLA17]. **Supporting** [DNL19, SSF<sup>+</sup>13]. **Suppression** [MHK<sup>+</sup>08]. **Survey** [GB11, GZY<sup>+</sup>18, PDH11]. **Switch**

[BMR16]. **Switched** [AL16, LL12]. **Switching** [AB20]. **Symbol** [BDX<sup>+</sup>19]. **Symbol-Only** [BDX<sup>+</sup>19]. **Symmetric** [GFBF12]. **Symmetries** [ZWM19]. **Symposium** [DH08]. **Synchronous** [GKM<sup>+</sup>12, PVA<sup>+</sup>09]. **Synergies** [MCD<sup>+</sup>18]. **Synthesis** [BAMR10, BAMR13, BPCC09, DD18, GdLIG<sup>+</sup>14, HLC<sup>+</sup>15, OROS<sup>+</sup>19, RBR16, WBC16, PANBI11]. **Synthesis-Generated** [HLC<sup>+</sup>15]. **Synthesizable** [KA17, WHQ<sup>+</sup>08]. **System** [AVCP20, CPN<sup>+</sup>09, GSJC13, GS10, IBH<sup>+</sup>15, JM14, JB15, LGW<sup>+</sup>14, MSF16, TZWZ15, WBR16, ZBR12]. **System-Level** [GSJC13]. **System-on-Chip** [GS10]. **SystemC** [HLL08]. **SystemC-based** [HLL08]. **Systems** [ASGY12, Bec14, BKT14, BHI15, CNE<sup>+</sup>15, CH10, GMBC17, GdLIG<sup>+</sup>14, HHSC10, HLN<sup>+</sup>10, INF<sup>+</sup>14, Kap16, KMK<sup>+</sup>10, KBT09, MH15, MCN12, NBS13, NJLW14, PMC<sup>+</sup>14, PVA<sup>+</sup>09, RGGW10, SJT09, VG14, ZQ19, ZNA<sup>+</sup>18, HGLS11, HH13, PDH11, ZH12]. **Systems-on-Chip** [GdLIG<sup>+</sup>14, VG14]. **Systolic** [ZCL16].

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