A Complete Bibliography of ACM Transactions on Storage

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Title word cross-reference

+ [GSL+05]. 3 [GYX+22, LWC+22,
PDZ+23, XWL+18, ZWM+20]. = [GSL+05].
3 [CNJ+20]. GF(2^n) [LBOX12].

-D [ZWM+20]. -Tree [CNJ+20].
0 [WXS16, ZZL13].
1394 [HKP09].

2008 [Bak08]. 2009 [SW09]. 2012 [BF12].
[BP17, MT17]. 2017
[DdL18, KW17, PWS17]. 2018
[AR18, YP19]. 2019

[ADZ20, MT20, MW20]. 2020
[GZ21, LH21, NW21]. 2021
[AY21, BL22, CK22, Noh22]. 2022
[DP22, SZ23]. 2023 [GN23].

6 [ES14, LS12, PBV11, XXL+11].

Abstractions [GR21]. Abundant
[ZCJ+21]. Academic [CWY+15].
Accelerate [SXJ+24]. Accelerates
[ZHSL+23]. Accelerating [LGL22, WCC15].
Acceleration [ZT20]. Access
[CHA+11, CSOL18, DFP+15, EHW23,
HCL13, JDXD13, LRE22, WZH+20,
WCC15, MKLC06]. Accesses [WM16].
Accessibility [YYC+18]. Accessing
[YCY+20]. accountability [YC07].
Accumulative [ZD21]. ACE [MMP+19].
Behavior [ASM12]. Behaviors [HCO†17].
benchmarking [AADAD09, TJJW08].
BetrFS [JYZ+15]. Better
[WKRP06, WWJ+23, ZRWW20]. between
[CCL†18]. Beyond [ESI4, IV15].
Bidirectional [SWY18]. Big [SVG+20].
Big-data [SVG+20]. Billions [MBTM†22].
Binary [CNJ†20]. bit [ASS05]. bit-rate
[ASS05]. Black [KCLK21]. Black-Box
[KCLK21]. Block
[BCBS23, FCZ†23, HHHF17, KMM†12, LWLS23, LZY†24, LV17, RHC15, SBMW17, ZLL†20, ZLHH23, AWCo9, LCZ05].
Block-Level [KMM†12, LZY†24]. Blurred
[LSS16]. Boosting [EHW23, PDZ†23].
Both [CSOL18, DJC07, JDXD13].
Bottlenecks [XOZ†20]. Bounded
[IBC†21]. bounds [EA08]. Box [KCLK21].
Bridging [GSL†05, KDS20, SYK†11].
Bringing [WOJ†18]. BTRFS [RBM13].
BUD [MQRY11]. Buffer
[KPY17, LBN14, SLZ†23, WLC†22, DJC07, MQRY11, WHE12]. Buffer-Controlled
[WLC†22]. Buffering [CSOL18]. buffers
[THTT08]. Bug [LZL†23]. Bugs [KXK†20].
Building [LCR†21, RDCS07, YWH†17, ZYWXX22].
Byte
[CST†24, CNJ†20, CYW†17, WCC15].
Byte-Addressable
[CST†24, CNJ†20, WCC15, CYW†17].

CA [BBK†09]. CA-NFS [BBK†09]. Cache
[EFM17, EEFM22, EHW23, FCZ†23, HWZ†18, HWF†16, LBN14, LSDW17, LXC†22, PDZ†23, SS14, SLZ†23, STC23, WZH†20, WCC21, YRYR21, DJC07, GB07, PDZ†23].
Cacheline [KSKN18]. Caches
[YP†23, MTH†08, VMF†06]. CacheSack
[YP†23]. Caching
[CDW†22, CLZ†21, HC17, JSC20, KSDK14, LB14, MBTM†22, SCJS18, XXD19, CHLK11, CHHH12, WSZ†10].
caching-oriented [CHHH12].
Calibrated
[TSWT22]. Can [RPA†21, WM16].
Capacities [HHS†20]. Case
[AWK†20, VTHB18, SZS†12]. Cases
[KCLK21]. Causality [MRH09].
Causality-based [MRH09]. CCFs
[LPC†17]. CDF [QFS†17]. Center
[LCZ†19, SFX21]. Centers
[BYY†22, HLZ†17]. centric
[BAM†21, SLXH23]. CGraph [ZZL†19a].
Challenges [GS06, VTHB18]. Change
[KSDK14, KPY17, XK24]. Channel
[KPY17, LSZ19]. Chaos [WOJ†18].
characteristic [XS09]. Characteristics
[YGJS21, HJZK08]. Characterization
[CHA†11, GLSB18, JPC†20, KAS18, LWC†22]. Characterizing
[MTD†15, XOZ†20, XWL†18]. Charge
[LWC†22]. Charge-Trap [LWC†22].
Cheap [HF05]. Checker [MDAD†14].
Checkers [GZH†18]. Checking
[FQS†14, TPM†11]. Chief [Aga23, Noh18].
Chip [KCC13]. Chip-Level [KCC13].
Choices [MH22]. Choosing [ZJX11]. Class
[KAG†22, WQR13, JWK†10, STZ10].
Classification [WCXY15]. Classifying
[JAM†16].clfB [KSKN18]. clfB-tree
[KSKN18]. Client
[CLZ†21, HA17, HC17, HCO†17].
Client-Side [HA17]. CLOCK [LKE18].
Clones [ZCZ†21, Rod08]. Closed
[ES14, IV15]. Closed-Form [ES14, IV15].
Cloud [BCQ†13]. Co-Design
[BCQ†13]. Cluster [SVG†20, SKM†18].
Clusters
[HZQX13, YRYR21, QJM†09, WB05]. Co
[SVG†20, TIM†18, XWD19]. Code
[PDZ17, ZLQ†20, HSZ19, YHJ13, ZZS21, ZLL†22, ZSV09].
Cloud-of-Clouds [BCQ†13]. Clouds
[BCQ†13]. Cluster [SVG†20, SKM†18].
Clusters
[HZQX13, YRYR21, QJM†09, WB05]. Co
[SVG†20, TIM†18, XWD19]. Code
[PDZ17, ZLQ†20, HSZ19, YHJ13, ZZS21, ZSV09].
Cloud-of-Clouds [BCQ†13]. Clouds
[BCQ†13]. Cluster [SVG†20, SKM†18].
Clusters
[HZQX13, YRYR21, QJM†09, WB05]. Co
LFH, LFJ, PB14, Tri15, XXL, YYY, YFH20, LS09, PBV11, HCL13.
Coding [CZD, ZT20, TB09].
Commercial [KLE20]. Commodity [KLK+22]. common [SZS+12].
communication [GSL+05]. Compaction [YWH+17, ZD21]. Compactions [SXJ+24].
Compositional [CN+18]. Compound [LSDW17]. Compounds [CBH+17].
Comprehensive [KSL+23, ZT20, JHZK08].
Compressed [May22]. Compression [JSC20, KMM+12, XZP+23, SHWH12].
Computational [CHA+11, KKR20].
Compute [CDW+22]. Compute-Storage [CDW+22]. computer [HWH+06, HBL+06, MTH+08].
Computing [CDW+22, DFB+20, LZL+23].
Concurrent [WCW+22, ZLZ+19a].
Conference [GR19, YP19]. congestion [BBK+09]. congestion-aware [BBK+09].
Conjunctive [TL+23]. conquer [Tos09].
Conquest [WKR06]. Conscious [LPC+17, ZZZ+22]. Consensus [AGL+18].
Consensus-Based [AGL+18].
conservation [CK05]. Conserve [HZQX13].
Considerations [KSCM23]. Consistency [GAADAD21, HZN+19, KLE20, LLYS23, MNP+19, PAL+17, WWW+18, FSM+12].
Consistency-aware [GAADAD21].
Consistent [HA13, YV05]. Consolidated [XZJ11]. Constructing [VMF+06].
Consumption [CPW+15]. Container [LSDW17, LDZ23, ZDZ+21].
Container-Based [LSDW17]. content [KR10]. Context [GHKW15, ZJJQ+15].
Contributing [CCB07]. contributor [JHZK08]. Control [FLY21, KZK05, ZSW+06]. Controlled [WLC+22]. Controlling [ZWW+23].
Cooperative [LKB+17, ZZW+17, TCL12]. Copy [ZCJ+21].
Copy-on-Abundant-Write [ZCJ+21]. Core [FCZ+23]. CORES [WLL+19].
Correct [CN+18, LRE22]. Correction [QFS+17]. correlations [LCZ05].
corruption [BADAD+08]. CosafaS [ZZW+17]. Cosmos [KLP+20]. Cost [DFB+20, HC17, LCR+21, TGL+18].
Crash [CN+18, HZN+19, LLYS23, MNP+19, PAL+17, WKC06].
Curve [HWZ+18]. Custom [AWK+20]. Customizable [LJFS17].

D [GYX+22, LWC+22, PDZ+23, SPADAD05, XWL+18, ZWM+20].
D-GRAID [SPADAD05]. D2D [HM05].
Data [ASM12, AT13, BYX+22, BAM+21, CWG+19, CWY+15, CLBB21, DFP+15, DMS+16, EKB+16, HLZ+17, HCL13, IJK+17, JSC20, JDX+13, JAM+16, KKL17, KDS20, KH20, LKB+17, LCZ+19, LDZ23, MEK+14, PYY19, SXF21, SSWC14, WCW+22, WH15, YYC+18, YPLG11, ZB16, ZWM+20, ZWW+23, ZCJ+20, ZT20, ZYS+22, AS05, ABLM07, BADAD+08, BFHR09, EM05, EA08, HKC06, LZYK+06, SZ05, SVG+20].
Data-centric [BAM+21].
Data-Intensive [CWY+15]. Database [SWY18, ZLZ+19b, DRK08, THHT08].
databases [MNT06]. Datacenter [SSVG13, YPU+23]. datasets [SHWH12, VMF+06].
david [AAADAD12].
decentralized [TCL12]. Decoupled
Decoupling [ZRRW20].

Deduplicated
[HHK+20, KK+22, NSK+21, ZYS+22].

Deduplication
[CGW+19, LXN+15, LTT+20, LDZ+23, MSM+17, MJW+14, PPL+16, QL+17, XPZ+23, YLR+22, ZDZ+21, SKM+18, MB+12, KR+10].

Deduplication-Based
[CGW+19, MJW+14, ZDZ+21]. Deep
[STC+23, WBZ+19]. Defenses [LLT+20].

Deferred [HZQX13]. Defined [LCZ+19].

Defining [EA+08]. DEFUSE [LRE+22].

degradation [JB+05]. Deletion [DMS+16].

Delta
[WTZ+23, XPZ+23, ZLQ+22, SHWH12].

DeltaFS [ZCJ+20]. density [PBV11].

Dependable [BCQ+13]. Dependent [SPR19].

Deployment [KAG+22, WXH+16]. DepSky [BCQ+13].

depth [LWLS+23], Derrick [JGW+23].

Descriptive [LGL22]. Design
[CCC+18, CPW+15, HWC+12, IBC+21, KSCM+23, LSDW+17, LCLX+19, MH+22, QL+17, SS+14, SCW+20, TIM+18, XPZ+23, YCY+20, ZZL+13, CHHH+12, GS+06, SVG+20, WKRP+06, WKG+06, XDD+19]. desktop [VMF+06].

Detection
[LLZ+23, LDZ+23, LXZ+23, XPZ+23].

Determining [ZWM+20]. Determinism
[KLC+23, LPS+23]. Development
[CMN+18, DKJS+21, ZJ+06]. Device
[KSL+23, LL+14, QZL+23, SCJS+18, SSHY+16, ZZJ+11, HBL+06].

Devices
[CSY+14, GHWK+15, JPC+20, KLE+20, KL+22, ZWH+17, BLN+09, CHLK+11, GR+09, KH+10, LZYK+06]. DFS [JBLF+10].

DIDACache [SCJS+18]. Differential
[BKPM+10]. differentiation [KK+05]. Diiffs
[May+22]. digital [GSL+05]. dimensional
[ZYS+22]. Direct [CSOL+18].

Direct-Access [CSOL+18]. directed
[LLZ+05]. Directories [ZCJ+20].

Directory [ZJP+18]. Disaggregated
[CDW+22, LHZ+23, ZHZL+23].

Disaggregation [GLSB+18]. Discovery
[LG+22]. Disk
[ASD+15, HWF+16, IHHE+11, JDY+13, Kas+18, LCZ+19, MTD+15, PB+14, SSVG+13, SYK+11, TGL+18, WXH+16, WLX+22, WMCJ+16, XXL+11, ZWM+20, ZWF+22, ABLM+07, BFHR+09, DEH+08, GW+10, GS+06, HM+05, LS+12, MJW+12, MHH+08, NQX+06, SG+07, SZ+05, TB+09, VJG+08, WKRP+06, WB+05].

Disk-Resident [WLX+22].

disk/persistent [WKRP+06].
disk/persistent-RAM [WKRP+06]. Disks
[GNB+16, JAM+16, STC+23, ZSH+23, JZH+08, LL+05, MQRY+11].

DISP [EM+05]. Distilling [ZDZ+21].

Distinguished [Noh+19]. Distributed
[AWK+20, AGL+18, GAAD+17, LCL+23, MH+22, PP+16, TLM+23, XCK+14, YLAD+23, ZL+19a, ZLL+19, ZHZL+23, ZZZ+19b, ZCW+21, EM+05, HD+08, MMR+09, SCW+20]. Distribution
[LWD+22, YZ+16, ZWM+20]. Divide
[Tos+09, GSL+05]. divide-and-conquer
[Tos+09]. DM [STC+23]. DM-SMR [STC+23].

Does [GAAD+17, MR+16, SG+07].

dominant [JHZK+08]. Donag [May+22].

DPMS [SCW+20]. DRAM [SLZ+23].

Drive [LCMZ+15, SSVG+13, SHDA+17, WBD+19, WCX+15, GS+06].

Drive-Managed [SHDA+17]. driver
[CHLK+11]. driver-layer [CHLK+11]. Drives
[CHL+16, GYX+22, Kas+18, LCZ+19, LXC+22, SLZ+23, WLD+21, XCD+19, ZYW+22, BFHR+09, CHHH+12, GW+10, HM+05].

DudeTx [LZ+18]. duplicate [BJD+06].

Durability [GAAD+21]. Durable
[HA+17, LZC+18]. Dynamic
[ABL+07, EKB+16, FLY+21, NB+13, QJM+09, ZB+16, THT+08].

Editor [Ano+23, Noh+18]. Editor-in-Chief
[Ano+23, Noh+18]. Editorial
[BP+11, Lon+12, Raj+05, BK+10]. Editors
[Noh+21]. effective [DFB+20, LCR+21].
Efficiency [HA13, HCL13, LLH+18]. Efficient [CK05, CWY+15, CZD+17, DFP+15, EFM17, GAADAD21, HKC06, IJK+17, JSC20, KSGP17, KLI17, LXNL15, LCLX19, LLYS23, LZYK+06, LSS16, LBOX12, May22, MRZ+09, MEK+14, PSX+21, PP16, S05, SSHY16, TCI12, WLX+22, XPZ+23, XMRF+13, YCM+20, YWH+17, YPLG11, ZJP+18, ZB16, ZL+20, ZLLH23, DBF+20, EM05, LSI2, MQRY11, WKC06, ZSXZ07].

EIC [Ano20]. Elastic [CZD]. Encryption [GAADAD21, KYL]. Enabling [AAADAD12]. Enclosures [EM05, LS12, MQRY11, WKC06, ZSXZ07].


Emulator [KSL+23]. Enabled [WOJ+18, ZCW+21, SCW+20]. Enabling [FCZ+23, LCLX19, SFW+20, TGL+18].


End-to-end [YXZ+23]. Endurance [BYY+22, JMS22, LCMZ15, PKI+18]. Energy [CWY+15, CPW+15, DFB+20, HQX13, LCMZ15, LLH+18, EA08, LLZA05, MQRY11, STZ10].


Evidence [GSS+18, YZ16]. Evolution [DKJS21, LADAL14]. Evolving [KH20].


Experience [YS17, YPU+23]. Exploitation [WLC+22, WCJ+24]. Exploiting [CST+24, GAR+22, HZQX13, JDXD13, JPY20, JWK+10, LSKK16, SWY+18, XCR+18, DJC07, MKC06].

Exploration [WLC+22]. Explorations [WCJ+24]. Exploratory [LCZ+19].

Ext3cow [PB05]. Extensible [ZZS+22]. Extending [LPS+23, WSSZ07].

Extensions [WQR13]. external [GAR+22]. Extract [GW10].

Fabrics [GLS18]. face [JMS20]. Fail [GSS+18, LXZ+23]. Fail-Slow [GSS+18, LXZ+23]. Failed [XXL+11].

Failure [HGZ+22, PB14, ZLL+19, ZWF22, JHJK08, SG07]. Failures [LL14, MTD+15, RPA+21, SSVG13, JHJK08]. Family [LL14].

FAST [AR18, AY21, Bak08, BF12, BP17, DP22, GN23, KW17, MW20, NW21, SZ15, ST14, CST+24, CSY+14, GAR+22, GHWK15, HHH+21, HZK+18, KLK+22, LRE22, LCR+21, MDAD+14, SSVG13, TPF+11, WJX+16, WLX+22, WCCZ21, XPM+23, YCM+20, ZLL19, ZT20, WCJ+24, ADAD07, SW09, ZJX+23].

FAST’10 [BK10]. FASTSync [WTZ+23]. Fault [GAADAD17, KLY+20, ASS05, EM05, LSZ09]. fault-tolerant [ASS05, EM05].


AEMWC+12, CST+24, CGW+19, CYW+17,
CSOL18, CCC+18, DMS+16, GAADAD17, GR09, GZH+18, HGFZ22, HZ+19, JMH20, JZY+15, JPC+20, KKK+20, KFPS20, LRE22, LRR+22, LADAD14, LSZ19, MDAD+14, MH22, MHS20, MLZG19, MMP+19, SFW+20, SLH23, VAM+19, WCC15, WQR13, YOL+18, YZJ+17, ZZW+17, ZJP+18, ZCJ+21, ZQJ+15, ZRRW20, ZHS23, ZCW+21, ABDL07, AADAD09, AWC09, BBK+09, CCB07, FSM+12, JB05, JBLF10, JWK+10, MKLC06, PB05, STZ10, SSR+10, TPM+11, TJJW08, THW08, VFNN10, WKP16, WSSZ07, WKOC06, XS09, YCY+20, ZIJ+06.

File-System


KW17, MT17, MW20, PWS17, SZ15, ST14, XS18, YP19, ADAD07, Bak08, BF12, SW09].

Issues [GZXZ23, GS06]. Iterative [ZZL+19a].


Kangaroo [MBTM+22]. Kernel [GZXZ23, JYZ+15]. Key [DKJS21, IBC+21, JSC20, KAG+22, KLC+23, LHJ+23, PSX+21, QZL+23, SCJS18, SXJ+24, WCCZ21, YYR21, YLRL22, YWH+17, ZD21, ZYWX22, HF05].

Key-Value [PSX+21, IBC+21, JSC20, KAG+22, LHJ+23, SCJS18, SXJ+24, YYR21, KVC].

KV [CZD+17, HAL+23, LCLX19, LCR+21]. KV-Store [CZD+17]. KVRangeDB [QZL+23].

Labels [KDS20]. Large [DFB+20, DKJS21, GSS+18, Hal16, IJK+17, MMES21, MEK+14, WBB+19, XLY+21, ZWH+19, AWC09, CK05, HDW+08, HHK+21, LBOX12, SZ05, VMF+06].

Large-Scale [Hal16, MMES21, MEK+14, DFB+20, DKJS21, WBB+19, XLY+21, CK05, HDW+08]. Latencies [YLH+17]. Latency [HC17, LGK+22, PKI+18, EA08, ZSW+06].

Latency- [HC17]. Latent [Hil23, SDGS10]. Launch [JPB17]. Layer [KCC13, WCXY15, CHLK11, CLP09, JGW+23, SPP11, WCR+06].


log-based [WKC06]. Log-Structured [KLC+23, ZD21, ZZL+19b]. Logging [HGZ+22, MT09]. LoneStar [GNB16].

Long [ASM12, YYC+18, SKM+18, GCMV09]. Long-Term [ASM12, JAM+16, YYC+18, SKM+18, GCMV09].

Loops [SPR19]. Loves [KPS+20]. Low [LGK+22, TGL+18, Tri15].

Low-Complexity [Tri15]. Low-cost [TGL+18]. LRCs [KSCM23]. LSM [HAL+23, IBC+21, KLL+24, LCR+21, SXJ+24, TGL+18].

LSM-Tree [HAL+23, TGL+18]. LSM-tree-based [IBC+21, LCR+21, SXJ+24]. Lustre [CLZ+21].


Making [SZS+12]. Managed [SHDA17, JGW+23]. Management [EEFM22, LGL+22, LKB+17, LUX+22].
PKI+18, SLZ+23, WLX+22, WLD21, YLR12, YHJ13, ZCL+21, CK05, CHHH12, DJC07, GR09, HBL+06, LLZA05, MRZ+09, NDR08, TCL12, WB05, WHE12.


Massive [GNB16, PWS17, YCY+20, ZCJ+20].

Maximizing [CBH+17]. mean [SG07].


Membrane [SSR+10]. Memories [ZHSH23]. Memory [BAM+21, CNJ+20, CHL16, CZD+17, CSOL18, ECC+18, FCZ+23, GYX+22, HSL+18, HCCK18, HWC12, JCG+16, KAG+22, KSCIC14, KLL+24, KCC13, LBN14, LKE18, LRZ+22, LHZ+23, IWC+22, LSS16, MCR18, MTH+08, PWLW21, PSX+21, SCW+20, SSHY16, SWY18, WLL+22, WCC15, WQR13, WH15, XK24, YCM+20, ZD21, ZCL+21, ZHZL23, ZCW+21, CK05, CLP09, GZXZ23, HKC06, JWK+10, LLZA05, SZZ+12, WKC06, YRY21].

Memory-Based [CHL16].

Memory-Mapped [PSX+21, SSHY16].

MEMS [BLN09, HBB+06, HBL+06, KH10, RDCS07]. MEMS-based [BLN09, HBB+06, HBL+06, KH10, RDCS07].


Metadata [CST+24, CYW+17, LGL22, WCC15, ZRRW20, ABDL07]. Method [QFS+17, WWJ+23, ZWF22]. MFTL [HWC12]. Microarchitecture [JCG+16].

Microarchitecture-Aware [JCG+16].

Migration [KKD+22, LKE18, LV17, MHS20, ZWG+23, SZ05].

Migration-optimized [LKE18].


misbehaviors [YSEY10]. Miss [HWZ+18]. Missteps [LXZ+23]. Mitigating [LSZ19].

Mitigation [WWJ+23]. Mixed [PB14, TGL+18, VJG08]. Mixed-media [VJG08]. MLC [HCCK18, HWC12].

Mobile [JPC+20, LH10]. Modeling [HWZ+18, KCLK21, NQX06, SHDA17, HBL+06]. Models [Des14, YLADAD23].

Modern [JMH12, GW10]. Modes [PB14].

Monitoring [MD+15, WBZ+19, YXX+23].

MOSFETs [ST06]. Movement [JAM+16].

MSST [DH16, MT17]. MTTDL [LV15, ES14].

Multi [CLBB21, KPY17]. Multi-Channel [KPY17]. Multi-objective [CLBB21].

Multicollective [MKLC06]. Multicore [CW+22].

MultiLanes [KHW+16].

Multiresolution [GGE+05]. Multistream [HA13, GB07].

Mutations [ZJP+18].

Namespace [CST+24, WD+06]. NAND [CLHK10, JCG+16, LSDKK16, IWC+22, PDZ+23, PKI+18, XLW+18, YLH+17].

NANDFlashSim [JCG+16].

Nap [WLL+22]. NCQ [YSEY10]. NDP [SX17].

Near [LJFS17, LFH+17, SXF21, YLH+17].

Near-Data [SX17]. Near-Optimal [LFH+17].

Near-Perfect [YLY+17].

Near-precise [LJFS17]. Need [WZ+20].

Nested [WLL+19]. Network [JB05, SSOT17, TTM+18, WZT+23, BBK+09, GSL+05, YCO07]. networks [GGE+05]. Next [JMS22, PKI+18].

Next-Generation [PKI+18]. NFS [BBK+09, CBH+17]. Nil [GAR+22].

Nil-external [GAR+22]. Nimble [ZCJ+21].

Nine [TZZW08]. Niobe [MTJ+08]. Node [SKM+18].

Non [BAM+21, YCM+20].

Non-Volatile [YCM+20, BAM+21].

Nondeterministic [SSW14]. Nonvolatile [KLL+24, BNN14, MTH+08, WCC15]. NOR [CLHK10]. note [BON12]. Novel [HSL+18].

NUMA [WLL+22]. NVLSM [ZD21].

NVM [CYW+17, LKB+17, WoW+18, XS18].
NVMe [GLSB18, KSL+23, LCR+21, LPS+23, LLYS23, LGKK22].
NVMe-over-Fabrics [GLSB18].
NVMeVirt [KSL+23]. NVMM [CLZ+21].
NVMM-Oriented [CLZ+21]. NVMs [CST+24]. NVRAM [KSKN18, LV17].

Object-based [ZWG+23]. objective [CLBB21]. Objects [LSDW17, MBTM+22].
Observations [XWL+18]. Obtaining [GW10]. Octopus [ZCW+21]. off [NDR08].
off-loading [NDR08]. Offline [GNB16].
Offloading [CDW+22]. Offs [LCMZ15].
One [WZH+20, ZRRW20, ZZS+22].
One-sided [ZZS+22].
One-Time-Access-Exclusion [WZH+20].
One-to-One [ZRRW20]. Online [KMM+12, TCJ+11]. only [SZS+12]. Open [LSZ19]. Open-Channel [LSZ19].
OpenSSD [KLP+20]. Operating [SSR+10].
Operation [ASD15, TB09]. Operations [YCY+20]. Optical [YYC+18].
Optimal [AT13, GB07, HLZ+17, LFH+17, LFJ+17, NSKY12, Tos09, WSY+10]. Optimality [KYL+20].
Optimization [CLBB21, JYZ+15, KCC13, MJW+14, STC23, YPU+23, YJZ+17, HDW+08, WCR+06].
Optimize [YCY+20]. Optimized [CDW+22, EK8+16, HL+23, WLL+19, YFHW20, KAG+22, LKE18, SHWH12].
Optimizing [CYW+17, KH10, STZ10, SYK+11, TSWT22, DRK08]. Oracle [KFS+20]. OrcFS [YOL+18].
Orchestrated [YOL+18]. Order [WOJ+18].
Ordered [WCCZ21]. Organization [TB09].
Oriented [CLZ+21]. CHHH12, LHZ+23.
OS-Level [KHW+16]. OSDI [BL22, LH21, AW23]. OSDI18 [ADV19].

Other [YZJ+17]. Ouroboros [LV17].
Owner [TLM+23]. Owner-free [TLM+23].

Page [KLC+17, LKE18, PDZ+23, YYM+18].
Page-state-aware [PDZ+23]. Paired [KLC17].
Pannier [LSDW17]. PARAl [WQ0+07]. Parallel
[MGZ+22, KCC13, MQRY11]. Parallelism
[BLN09, CHL16, XCR18].
Parallelism-aware [BLN09]. Parallelizing [SPR+19]. Parity
[WJ+24, MJW+12, TCJ+11].
Parity-based [WJ+24, MJW+12, TCJ+11]. Partial
[ZL+20]. Paths [May+22]. Path
[DMS+16, ZJE+18]. Pattern
[KPY+17, LXC+22]. Pattern-Based
[LXR+22]. Pattern-Change-Aware
[KPY+17]. Patterns [SKM+18, MKLC06].
PBS [ZLL+20]. PCIe [LLS+23]. PCM
[LLH+18]. Penalty [PWLW21]. Penalty-
PWLW21. Per-File [DMS+16]. Perfect
[YLH+17]. Performance
[CST+24, CBH+17, CSY+14, Des14, EHW+23, FCZ+23, GSS+18, GLS+18, HGZ+22, HCO+17, JPB17, KKZ+05, KPY+17, KCLK21, KCC13, LB14, LSKK16, LLZ+05, LCMZ15, LCLX19, LZL+23, LFH+17, LWC+22, MJW+14, PDZ+23, PAL+17, QFS+17, SHDA17, SYK+11, TSW+22, TGL+18, VAM+19, WMCJ+16, XYL+11, XCK+14, YGJS+1, YFHW20, ZJ+11, ZRRW20, ZDE+21, ZWH+23].

Perspective [LSS+16]. Persistent
[CNJ+20, CSOL+18, CCC+18, CLZ+21, GZX+23, HJW15, KSKN18, LRZ+22, LSS+16, LTV+23].
MCR18, SCW+20, WLL+22, ZD21, ZCL+21, ZHZL+23, ZHSH+23, ZCW+21, ZHW19.
Persistent-memory-related [GZXZ+23).
Persistent-Program [WKRP+06]. Persisting [WWW+18]. Perspective
[CPW+15, HCQ+17, SLXH+23, WWW+18].
Phase [KSDC+14, XK24]. Pipelining [LYL+21]. Placement
[CLBB21, IJK+17, MEK+14, MMR+09].
Plan [NSKY+21]. Platform [IFY+19]. PM
HAL+23. PM-Based [HAL+23]. Policy
[EFM+17, WZH+20, CHLKL+11, WSZ+10]. Portable [AEMWC+12]. Portably
[THWD+08]. Possession [EEK+16, ZB16]. possible [GS+06]. Post [XPZ+23].
Post-Deduplication [XPZ+23]. postal [GSL+05]. POTSHARDS [SGMV+09].
Power
[KAG+22, YHJ+13, NDR08, WOQ+07]. power-aware [WOQ+07].
Power-optimized [KAG+22] powered
[KH+10]. Practical
[KSCP+23, KCLK+21, LXZ+23, MHS+20, NDR08, MTJ+08, MB+12, EM+05]. Practice
[HLZ+17, MB+23]. PRE [MQR+11].
PRE-BUD [MQR+11]. Precise [LJF+17]. Predictable
[LGKK+22]. Predicting
[Hal+16]. Prediction [ZWF+22]. Predictive
[EA+08, WM+16]. Prefetching
[JXDK+13, LXC+22, GB+07, MQR+11]. presence
[DE+08]. Preservation
[YYC+18]. PRESIDIO [YPG+11].
Preventing [HSW+09, YSEY+10]. Primary
[PP+16]. Principled [YLD+23].
Priorities [DK+21]. Private [DFP+15].
Proactively [MT+15]. Process [SWY+18].
Process-in-Memory [SWY+18].
Processing [FCZ+23, HSL+18, PYY+19, SFX+21, ZZL+19a, HDW+08].
Processing-in-Memory [HSL+18].
Production [GSS+18, XOZ+20].
Programming [GR+21, HCCK+18, LPS+23]. Programs
[FCZ+23]. protect [SDG+10].
Protecting [MT+15]. Protection
[KLP+20, SS+14]. Provable
[EEK+16, ZB+16]. Provably [CNS+18].
Provably-Correct [CNS+18]. Provenance
[XMR+13, HSW+09]. Provide [HZN+19].
Providing [KHW+16]. Provisioning
[III+17]. PSA [PD+23]. PSA-Cache
[PD+23]. Pumping [LLH+18]. Pyramid
[HCL+13].
QoS [HCP+09]. Queries
[QZL+23, TLM+23, Tos+09]. Query
[SWY+18]. Queueing [III+17].
Queueing-Based [III+17]. quFiles
[VFN+10]. Quick [MHS+20]. quickly
[GW+10].
RACE [ZZS+22]. races [THWD+08]. Rack
[YYC+18]. Rack-based [YYC+18]. RAID
[IV+15, BKPM+10, DE+08, ES+14, GN+16, HHH+21, HM+05, IHHE+11, KZZ+07, LS+12, MR+16, PB+11, PB+14, TR+15, WXS+16, WOQ+07, XSL+11, ZZL+13]. RAID-0
[WXS+16, ZZL+13]. RAID-6
[IV+15, LS+12, PB+11, XSL+11]. RAIDs
[TC+11, WCJ+24]. RAIDShield
[MD+15]. RAIL [LGKK+22]. RAM
[CCC+18, WKR+06, ZLL+19]. RAM-Based
[CCC+18]. Random [ME+14, WXL+22]. randomization
[WB+05]. Range
[QZL+23, Tos+09]. Rapid [KLP+20]. rate
[ASS+05]. rates [SG+07]. Ratio [HW+18].
RB [WWW+18]. RB-Tree [WWW+18].
RDMA [LH+23, LL+23, SCW+20, WCC+21, ZCW+21, ZZS+22].
RDMA-Based [WCC+21].
RDMA-conscious [ZZS+22].
RDMA-Enabled [SCW+21, SCW+20].
RDMA-oriented [LH+23]. Reactions
[GAAD+17]. Read
[KPY+17, MJW+14, QFS+17, TGL+18].
Read-Performance [MJW+14].
Read-Write [KPY+17]. Read/Write
Regenerating [HBP11, LFH17, Reconfigurable [NCP+22, SFX21], Records [WLL+19], Recover [RPA+21], Recoverable [KSCM23, YCM+20, SGMV09], Recovery [AGL+18, CNS+18, HGZ+22, HKH+21, XYL+11, YFH20, ZLL19, HF05, WKC06], Redis [PWLW21], Reduce [JAM+16], Reducing [HBP11, LKB+17, WZH+20], Reduction [LIH+18, EA08], Redundancies [HZQX13], Redundancy [FLY21, GAADAD17, IHHE+11, DEH+08], redundant [TB09], Reed [Tri15], Regenerating [HBP11, LFH17], regeneration [YV05], REGISTOR [PYY19], regulatory [PB05], Rekeying [QLL17], Rekeying-Aware [QLL17], related [GZXZ23], Reliability [ES14, Hal16, HM05, IV15, Iii23, JMHS20, LWC+22, MMES21, WMCJ16, BKPM10, DEH+08, MJW+12, TB09], Reliable [CWY+15, HCL13], remapping [CLP09], Remote [WCCZ21, ZB16], removable [CHL+11], Reordering [JPB+17, AW09], Reorganization [ZCJ+20], Repair [HLZ+17, HBP11, LYL+21, LFH+17, LFJ+17], Repairable [KYL+20], Reparo [HHK+21], Replacement [HWF+16, LKE18, SZ05], Replacing [LRZ+22], Replay [HHFD17], replica [MMR+09, YV05], Replicated [AT13, GAR+22], Replication [CZD+17, NB13, EA08, MTJ+08, SHWH12], Repositories [ASM12], Reprogramming [GYX+22], Request [SYK+11, ZFX+18, BLN09], ReRAM [HSL+18], ReRAM-Based [HSL+18], Research [KSL+23], Resemblance [XPZ+23], Resident [WLX+22], resilient [YLR+22], resizing [ZHW19], Resource [CCC+18, VAM+19, CK05], Response [AT13], restartable [SSR+10], Rethinking [AWC09, BKPM10], Retrieval [AT13, Tos09], Reuse [YYM+18], Reviewers [Noh19, Noh21], Revisiting [KAU12], Right [YZJ+17, VFNN10], robin [ZSXZ07], Robust [EEF+22, GZH+18, VD17], RocksDB [DKJS21], ROS [YYC+18], round [ZSXZ07], round-robin [ZSXZ07], RRAM [SWY18], RRAM-Based [SWY18], runtime [FSM+12], SAN [CSY+14], SATA [HM05], Scalability [JGW+23], Scalable [ASS05, DFB+20, HHFD17, KLK+22, MEK+14, WLX+22, XK24, YHJ13], Scale [GSS+18, Hal16, MMES21, MEK+14, SVVG13, VTHB18, WXH+16, ZCJ+20, CK05, DFB+20, DJKS21, HDW+08, WBZ+19, YR21, WXY+16], Scaling [ZLZ+13, ZSXZ07], Scan [WLL+19], Scan-Optimized [WLL+19], Schedulability [YLADAD23], scheduler [YSEY10], Scheduling [ZFX+18, BLN09, VJG08], Scheme [HCCK18, HHK+21, HC17, JSC20, JDXD13, KL17, PDZ+23, WZT+23, DEH+08, DJC07, Tos09, WHE12], Schemes [HCL13], Science [CHA+11], Scientific [ASM12, LGL22, VMF+06], SCMFS [WQR+13], Scrubbing [IHHE11], SD [PB14], search [GGE+05], Searchable [TLM+23], Section [AY21, AW23, ADV19, ADZ20, BL22, CK22, DP22, GN23, GR19, KKR20, LH21, MT20, NW21, Noh22, SZ23], Sector [LL14, PB14, GW10, SDG10], Sector-Disk [PB14], Secure [BCQ+13, DMS+16, YCM+20, EM05, HSW09, LBOX12, MT09, SGMV09], Security [SLXH23, HM05, NQX06], Seeding [NSKVY21], Seek [SYK+11], Seek-Optimizing [SYK+11], Selecting [WSZ+10], Self
[CDW+22, JGW+23, HF05, THTT08].
self-tuning [THTT08].
Semantics [KDS20, WDQ+06, WSSZ07].
Semi [ZWF22, BFHR09]. semi-structured [BFHR09]. Semi-supervised [ZWF22].
sensor [GGE05, WOQ22]. Separating [PG22, WSSZ07].
Shingle-Aware [JGW+23].

[CDW+22, JGW+23, HF05, THTT08].

SmartFVM [KLK15].
Smart [GWK15].
SmartCon [GWK15].
SmartFVM [KLK15].
Smartphones [KAU12].

SmartCache [SHDA17, STC23, WLD21, XDD19, ZYW22].

Sketching [HHS10].
Sliding [SKM18].
Size [EFM22, LS12].

Server [FLY21, MHS20, WLZ+22, ASS05, STZ10].
Server-based [FLY21]. server-class [STZ10].

Servers [SXF22].
Service [CLBB17, LZY+24, SSWC14, ZXJ11, ZLLH23, KFPS20]. Services [ZPQ+22, VJG08].

Slicing [SHDA17, STC23]. Slow [HL14].

Sketch [HL14]. SkyLight [ASD15].
SLAS [XXZ07].

SLC [HCC18, HCC18]. SLC-Like [HCC18].

Slicing [MEK+14].

SlimCache [JSC20].
SLO [LJFS17]. Slow [GSS+18, LZX+23].
Small [SYK+11].

Smart [GWK15].
SmartCon [GWK15].

SmartFVM [KLK15].
Smartphones [KAU12].

SMR [SHDA17, STC23, WLD21, XDD19, ZYW22].

SMR-aware [STC23].

Snapshots [DS16]. soft [WCR+06].

Software [LCZ+19, LBOX12].
Software-Defined [LCZ+19].

SolarDB [ZL+19].
Solid [HL16, GXY+22, LXC+22, SS14, SLZ+23, WCXY15, XCR18, ZWH+17, CHHH12].

Solid-State [CHL16, LXC+22, SS14, WCXY15, XCR18, SLZ+23, CHHH12].
Solomon [Tri15].
Solution [KDS20, Noh22].

Solving [THWD08].

SOPA [WSZ+10].
Sorting [WH15].

Space [HLC13, KSGP17, LRE22, VAM+19].
spatial [JDC07].

Special [AR18, AY21, AW23, ADV19, ADZ20, BP17, BL22, CK2, DP22, DH16, DdL18, GZ21, GN23, GR19, KRR20, KW17, LH11, MT20, MT17, MW20, NW21, Noh22, SZ15, SZ23, ST14, XZ18, YP19, ADAD07, Bak08, BF12, SW09, PWS17].

Spectrum [VTHB18].

Speculation [SPR19].

Speculative [ZL+20].

SSD [BKPM10, Des14, JMHS20, JSS22, KPY17, LPG+17, MIR16, PYY19, QFS+17, WXS16, WLC+22, WMCJ16, YJG21].

SSD-Based [WMCJ16, YJG21].

SSD-Conscious [LL14].

SSF [BKPM10, Des14, JMHS20, JSS22, KPY17, LPG+17, MIR16, PYY19, QFS+17, WXS16, WLC+22, WMCJ16, YJG21].

SSDPlayer [YS17].

SSDs [CPW+15, HHL+21, IBC+21, KCLK21, LSK16, LCR+21, LSZ19, MME21, SPP11, WCJ+24, WHE12, XDD19, YLH+17].

Stack [SSOT17, TIM+18, WOJ+18, BADAD+08].

STAIR [LL14].

State [CHL16, GXY+22, LXC+22, SS14, WCXY15, XCR18, ZWH+17, CHHH12, HF05, PDZ+23, SLZ+23].

Statistical [WM16].

Status [WBZ+19].

Storage [AWK+20, AAB+23, AGL+18, AT13, BW16, BN16, BCQ+13, CDW+22, CHA+11, CWY+15, CCC+18, CLBB21, CSY+14, DFB+20, FLY21, GAADAD17, GAR+22, GR09, GCD+22, GR21, GHWW15, GLSB18, HAI16, HHS+20, HAI16, HDW+08, HC17, HCO+17, HWC12, HWZ+18, HZQX13, HCL13, IHHE11, IJ+17, ILI+23, HW+16, KLE20, KAG+22, KCM20, KSDC14, KRR20, KSL+23, KMM+12, KSD0, KFPS20, KLP+20, KLT+22, LB14, LKB+17, LXL15, LJFS17, LCLX19, LYL+21, LWLS23, LZL+23]
LFJ+17, LPG+17, LPR+19, MMES21, MJV+14, MHL+15, MEK+14, NSKY21, NCP+22, PSX+21, PWS17, PP16, PYY19, QL17, SBMW17, SCW+20, SSHY16, SSOT17, SSWC14, SWY+18, SFW+20, TSWT22, VTHB18, VDI17, WBZ+19, WCW+22, WLC+22, WLL+19, WM16, WOJ+18, WQR13, WZT+23, XMRF+13, XDX19, XCK+14, XS18, YP19, YYC+18, YLADAD23, YOL+18, YPLG11, YHJ13, ZSW+06, ZJX11, ZLL+19a, ZLL+20, ZLHL+23, ZWG+23, ZLQ+22, ZFX+18.

**Storage** [ZT+20, ZLL+19b, AAADAD12, BLN09, BADAD+08, BJ06, CK05, CHLK11, CCB07, DEH+08, DRK08, EM05, GGE+05, GSL+05, HSB+16, HBL+06, HCK06, HKP09, HM05, JB05, JHZK08, JBLF10, JWK+10, KRD0, KXZ05, KH10, KAU12, LCZ05, LSZ09, LBOX12, MMR+09, MTH+08, MRZ+09, NDR08, RDCS07, SPADAD05, SGMV09, TZJW08, VMF+06, WCR+06, YC07]. **Storage-as-a-Service** [CLBB21]. **Store** [CZD+17, DJS21, HJW15, KH20, LCR+21, LHZ+23, PSX+21, WCCZ21, ZD21, ZYWX22]. **Stores** [HAL+23, KAG+22, KLC+23, SXJ+24, YWH+17]. **Storing** [BFHR09]. **Strategies** [LB14]. **Strategy** [WXS16, CLHK10, XS09]. **Stream** [BYY+22, HDW+08, SHWH12]. **stream-informed** [SHWH12].

**stream-processing** [HDW+08]. **Streaming** [ZCJ+20, ASS05, RDCS07]. strictly [Tos09].

**Strip** [LSZ09]. **Strip-based** [LSZ09].

**Stripe** [WXH+16]. striped [ZSXZ07].

**Strong** [GAADAD21, KLC+23, YC07].

**Structure** [SWY+18, ZHW+19]. **Structured** [KLC+23, WXS16, ZD21, ZLL+19b, BFHR09]. **Structures** [ZYS+22, LZYK+06].

**Study** [GCD+22, HGZ+22, KLCD14, LCZ+19, LADADL14, MMES21, SLXH23, VTHB18, ZT20, ABDL07, JHZK08, MB12, TZJW08]. **Subsystems** [LBN14]. subsystem [JHZK08]. **Subsystems** [SYK+11, HKP09, SZ05].

**Summary** [LWC+22]. **SUPA** [KPY17].

**Supercomputer** [XOZ+20].

**Supercomputers** [YXZ+23]. supervised [ZFW22]. supplementary [TCJ+11].


**System** [CST+24, CWG+19, CSOL18, CCC+18, GAADAD17, GZH+18, JYZ+15, KCDM20, LRE22, LADADL14, MDAD+14, MH22, MHL+15, MMP+19, QL17, SFW+20, WCC15, WM16, WQR13, YCY+18, YCM+20, YOL+18, YZJ+17, ZZW+17, ZJP+18, ZCJ+21, ZLL+19a, ZRW+20, ZLL+20, ZHSH+23, ZFX+18, ZCW+21, AEMWC+12, ABDL07, AAADAD09, BBK+09, CCB07, FSM+12, HZN+19, JBLF10, JW+11, NQX06, PB05, STZ10, SPADAD05, SGMV09, SSR+10, TZZW08, WKRP06, WSSZ07, ZLJ+06, GR09, SCW+20].

**Systematic** [LFJ+17]. **Systematically** [MMP+19]. **Systems** [AWK+20, AAB+23, BN16, CWY+15, CYW+17, CCC+18, GR21, GNB16, GSS+18, H16, HGZ+22, HWC12, HBP11, HCL13, IHHE11, ILK+17, I112, JMSH20, KSDC14, KXX+20, KSL+23, KKD+22, KLP+20, LHZ+23, LZZ+23, LSZH, MMES21, MJW+14, MKE+14, PWS17, PB14, SSWC14, SLXH23, VAM+19, VTHB18, WBZ+19, YP19, YLADAD23, YH13, ZLQ+15, ZDZ+21, ZWG+23, AAADAD12, BJ06, CK05, DEH+08, HDW+08, HSB+16, HLC+23, HCP06, HM05, KR06, KZK05, KH10, LSZ09, MMR+09, MQLR11, MTH+08, MRZ+09, RDCS07, SSR+10, TPM+11, WK06].

**SYSTOR** [YP19, DDL18].

**Tail** [LGK22, YLH+17]. **Tails** [IBC+21].
Targets [PKI+18]. TDDFS [CWG+19].
Technical [GR19].
Technique [KX24, MKLC06].
Techniques [WM16, ZT20]. Technology [PWS17].
Temperature [SSVG13].
Templates [ZWM+20].
Temporal [LSKK16, MHL+15, DJC07]. Term [ASM12, JAM+16, YYC+18, SKM+18, SGMV09].
Testing [MMP+19].
TH [SCW+20].
TH-DPMS [SCW+20]. Thanking [Noh21].
Their [YGSJ21]. them [SDG10]. Theory [HLZ+17, MBTM+22, YPU+23]. Thermal [GS06].
Thread [YLADAD23]. Three [JGW+23]. Three-layer [JGW+23].
Threshold [LWC+22]. throughput [ZSW+06]. Tier [CWG+19]. Tier-Aware [CWG+19]. Tiered
[GR21, IJK+17, ZHSH23]. Tiering [KSDC14, XDD19].
Time [AT13, EHW23, WZH+20, KH20, PB05, VFNN10, WCR+06].
time-shifting [PB05]. Tiny [MBTM+22, YLY+17]. Tiny-Tail
[YLH+17]. TinyLFU [EFM17]. TLC
[GYX+22]. Tolerance
[GAADAD17, KYL+20, LSZ09]. tolerant
[ASS05, EM05]. Tolerating [LI14]. Tools
[Hal16]. TOS [Noh19, Noh21]. TPFS
[ZSH+23]. Tracing [VTHB18]. Trade
[HCL13, LCMZ15]. Trade-Offs [LCMZ15].
Tradeoffs [CPW+15]. Traffic
[HBP11, WZH+20]. Transactional
[FQS+14]. Transactions [HZN+19, LRC+18, LSS16, SBMW17, ZHLZ23].
transfers [AWC09]. Translation
[KCC13, LRZ+22, WCXY15, XCR18, ZWH+17, CLP09, SPP11]. Transparent
[FCZ+23, KMM+12, CCB07]. Trap
[LWC+22]. Traversal [HSL+18]. Treating
[SSOT17]. Tree [CNJ+20, HAL+23, KLL+24, RBM13, YWH+17, ZD21, IBC+21, KSKN18, LCR+21, SXJ+24, TGL+18, CNJ+20, WWW+18, KSKN18]. Trees
[ZB16, Rod08]. Triage [KKZ05]. TriCache
[FCZ+23]. TrueErase [DMS+16]. trust
[TCL12]. Tunable [WB05, YLRL22].
tuning [HTHT08]. Turbo [MTH+08].
Twitter [YR21]. Twizzler [BAM+21]. Two [SXF21, YS17]. TxFS [HZN+19].

Ultra [CST+24, HHK+21, WCJ+24].
Ultra-Fast [CST+24, WCJ+24].
Ultra-large [HHK+21]. Umbrella [GR09].
un-Block [BCBS23]. Understanding
[CHA+11, GZXX23, HCO+17, SG07, SDG10, SXF21, ZWH+17]. unexpected
[YSEY10].
unification [WDG+06].
Unified
[KPY17, LBNN14, VG08]. Union [CCC+18].
UnistorFS [CCC+18]. Universal [STC23].
Unix [WDG+06]. unrecoverable
[DEH+08]. Unstructured [PYY19].
Update [ZB16]. Updates
Ursa [YHJ+13]. Usage [JPC+20, MCR18].
Use [KCLK21]. USENIX
[AR18,AY21,AW23,ADAD07,Bak08,BF12,BP17,BL22,CK22,DP22,GZ21,GN23,GR19,KW17,LH21,MT20,MW20,NW21,SZ15,SZ23,ST14]. User
[BN16,FCZ+23,LRE22,VAM+19].
User-Friendly [BN16]. User-Space
[VAM+19]. User-Transparent [FCZ+23].
Using [AAB+23, HWB+06, HBL+06, KAG+22, KDS20, LV17, PMLW21, SPR19, SXJ+24, WCCZ21, XXL+11, YLADAD23, ZD21, CCB07, HKP09, HM05, JMS22, KKZ05, SHWH12]. utility [VG08].
utility-based [VG08]. Utilization
[LDZ+23, VAM+19, ZDZ+21, DRK08].
Utilizing [KR10].

v [JMS22]. Valid [LDZ+23]. Validation
[ZHCL23]. Value
[KLC+23, PSX+21, QZL+23, WCCZ21, YWH+17, ZD21, DKJS21, IBC+21, JSC20, KAG+22, LHZ+23, SCJS18, SXJ+24, YR21, ZYWX22]. Values [LPG+17].
variable [ASS05]. Vectorized [CBH+17].
Verifying [FSM+12]. Versatile [LCMZ15].
Versatility [WDG+06]. Version [KLE20].
versioning [MRH09]. Versus [IHHE11].
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