Title word cross-reference

#2 [Cer85].

10 [GLM+10], 11 [SY11]. 2
[EAA+16, GG92, HD72], 2n [QG89, QG90].
3 [CBA94, Fly92, GG92, GKM94, LMIC07,
LDY+16, WSSO12], 5/8 [Sch11]. $\text{862m}$
[Nic17]. 64 [LK16]. * [LNS93]. +
[Omi88, Omi89a], $\text{MT}$ [HRB13]. 2
[AK98, QJ97], A [Lyo83]. A* [MD97]. A2
[Bie95]. $\alpha$ [ABC+16]. $b$ [LK11]. $B^+$ [TB91].
c [SWQ+14]. d [FPS17, PRM16]. f [LG78].
$H^2$ [DRS12]. $H_2A$ [CBB05]. $K$
[Yuv75, APV07, CLS5, CC91, CLC92,
DKRT15, Die96, FPS17, Gui78, HC14,
LLG+17, PT10a, PT16, RRS07, SS90b]. L
[OOB12], $L_p$ [CJ19, HFF+17]. $\text{SL}_2(\mathbb{F}_2^*)$
[SGGB00]. N [BRM+09, BS91b, BS91a,
CM01, Gir87, Ven86, WS93, War14, Coh97,
Coh98, LHC05, QG89, QG90]. $O(1)$ [FKS84].
$O(\log \log n)$ [MN90]. $O(\log W)$ [LS07b].
$O(N)$ [HG77, MN90]. $p^n$ [Ack74]. $\pi$
[FFGL10]. q [OWZ14]. $\text{SL}_2$ [MT16]. $Z/p$
[Mue04].

-approximate [SWQ+14]. -ary
[CC91, CLC92, Gui78, RRS07]. -Bit
[QG89, QG90, LK16, LK11]. -Body
[WS93, War14]. -codes [Bie95]. -dimension
[LHC05]. -dimensional [Yuv75].
-Functions [OOB12]. -gram
[Coh98, Ven86]. -Grams [Coh97, BRM+09].
-Hash [BS91b, BS91a]. -Independence
[PT16, PT10a]. -mer [HC14]. -min-wise
[FPS17]. -Nearest [CL5]. -partitions
[DKRT15]. -Pipeline [PRM16]. -probe
[SS90b]. -Round [GLM+10, SY11]. -tree
[Omi89a, Lyo83]. -trees [CM01].
-verarbeitung [Nie75]. -wise [Die96].

0 [BC15, ITP14, NSS+06, WYY05d]. ’07 [ACM07]. ’08 [ACM08b].


access-pattern-driven [ZO13]. Accessed [Ols69]. Accesses [Pan05]. Accessing [Cha88, Oro83, FK89]. accommodation [HO72]. Accountable [XHZ+19]. Accumulated [Nyb96]. accumulating [ZHWO1]. Accumulators [CHK08, PTT16, CHK10]. Accuracy [YWH09, HKL07]. Accurate [PCV94, SL16, NTW09, TYSK10]. Achieving [Lar88b, Lyo85]. ACM [ACM94d, ??69, ACM75c, ACM75b, ACM75a, ACM76, ACM77b, LFP82, ACM82, ACM83b, ACM84b, ACM85b, ACM85a, ACM86b, ACM86a, ACM87, ACM88a, ACM88b, ACM89b, ACM89a, ACM88c, SDA90, ACM90, ACM91c, ACM91d, ACM91a, ACM91b, ACM91e, ACM96, ACM97a, ACM97b, ACM98, ACM90, ACM01, ACM02, ACM03a, ACM04, ACM05, ACM07, ACM08a, ACM08b, ACM11, ACM12, Ano92, BIP92, BJ93, CLM89, FMA02, GMJ90, Van10, HF13, IEE02, Jen76, Kar98, LL08, Mat09, Nav85, Rie89, ACM77a, Shm00, SW94b, Sto92, YR87, ACM81, ACM91b, BV99, Lie81].

ACM-SIAM [ACM94d, SDA90, SDA91, ACM97a, ACM05, ACM08a, Kar98].


LY72, MLP07, MPL09, RW07.
Addressable [RSK17, Koh80, BB07].
Addressed [SVCC01].
Addressing [Bay74, Bra84a, Bra86, Buc63, Fab74, Fel87, 
Gon77, Gon80, JC88a, Joh61, Kno71, Kno88, 
KRG79, KRJ80, Lit80, Litxxa, LH03b, 
LH03a, Mot84, MC86, Pet57, RJ7K79, SS62, 
SD76, Som99, Tra63, CKW93, Lin63, NK16, 
TT81, Wan05, van73].
Adelaide [Bar83].
Advancing [Pag85, Wog89].
Administration [Fis87].
Adressing [Bra85].
Advanced [Ano93d, CE95, HDCM11, Hsi83].
Advances [Buc82, AFK90, Bel00, Bra90, 
Bri92, CR68a, CP87, Cop95a, Cop95b, 
Dam90a, Dam91, Dav91, De 95, Fei91, Fra04, 
GQ95, He949, IRM93, JB94, LC06, MV91c, 
PSN95, QV95, Rue93, SP90, SZ93, 
Sho05, Sti93, Van06, Wie99, Yum02].
Advantage [WSSO12].
Adversaries [LN93].
Advisor [Cer85].
Aegean [Rei88, Rei88].
Aeronautical [KCF84].
Aeronautics [Fis87].
Aerospace [Fis87].
AES [ABO17, BOY11, BOS11, G5K08, Sasi1, JNPP14].
AES-like [JNPP14].
affects [HL05].
Again [DRS12].
Against [DL17, ASBi616, JL14, JG95, 
MSP12, Sho00b].
Age [Cro98].
Agent [BSH12, DF01].
Aggregation [BJL16, PT10b].
Agreement [BG10, YLSZ19].
Agrometeorological [WM93].
Ahead [Meh90, Moh93].
AID [Dost87b].
Airport [ICD88, ICD90].
Akon [Fis87].
al. [SPLHCB14].
Alaska [IEE01].
Albuquerque [ACM75c, ACM75a, IE919a].
Algebra [Bra84b, KTMO83b, KTMo83c, 
EBD91, FP89a].
Algebraic [ACM94d, EjKMP80, Jen76, Lak96, Lev95, 
Mar71, Ng79, WX01, vdHyH12, BF08, GS89, 
LS06, Pons87, Cohl94, AAGG16].
Algebras [CT96].
Algo [FR69].
Algo-Based [FR69].
Algorithm [ANS97, ANS05, AKS78, ABH+73, 
AEMR09, BH90, BI87, Bou12, Boy98, 
CS85a, jCPB+12, CdM89, CW09, CT12, 
Coh98, CHM92a, CHM92b, CM93, Dev93, 
DCM18, FL73, FFPV84, FCHD88, FCHD89, 
FCH2, Fro81, Get01, Han90, HCKW90, 
HR96, HW08, HG77, HC13, Jen97, JRPK07, 
KMM+06, KRRJ07, Leb87, LLL11, LLW10, 
MXL+12, Man12, MHB90, MV01, MH00, 
NP91, OG94a, OOB17, OL91, Omi91, OL92, 
Pap94, PCY95, Pes96, Pit87, PVM97, Reg82, 
SS01, Sol93, Spe92, Sta99, TRN86, TTY93, 
Toy93, TSP+11, WGO0, WWZ90, WZJS10, 
WS93, WVT90, Wt97, Wt71, WDTY91, 
WYT93, WL12, ZG90a, ZJM94b, ZPS90, 
ZPS93a, AS89, AT18, AGJA06, ATAKS07, 
CLS95, CLW98, DHPK97, FH79, FHC89, 
Gai82, GBY90, HL11b, HL94, ISO97, 
ISH88, JWM+18, Kim99, LEHN02, 
MCC01, MKSiA98, OT89, PCV94].
algorithm [SB95, SM94, Si02b, WM93, 
War14, Wie86, YCJ12, ZJM94a, ZJM94c, 
ZPS93b, ACZ16, Sta94, TKI99].
Algorithms [Meh77, Meh86, Wir75, Wir83, Zel91].
Algorithmics [Mat93].
Algorithms [ACM94d, ACM91c, ACM97a, ACM05, 
ACM08a, ANS97, AHU83, AI06, Ano95a, 
IA91, IA94, AT90, AT93, AT91, BS97, 
Bur76b, CF19, CV86, CRR18, CT96, 
DG85a, DG85b, Dev86, DS97, FM96, FW09, 
FM85, Ger86a, Ger86b, Gon84, GBY91, 
GI77, Gra88, Gra99, GC95, GKH, GK82, 
Gui76a, Gui76b, GG80, GSB49, Har88, HS78, 
HL91, KR81, LLLC17, LS99, Lom93, LTS90, 
LU93b, Mag95, MF92, ML94, MLxx, Mat09, 
MS88a, MO92a, OG94b, OL95, PS93, Pip94, 
PV19, Pre97a, PB85, QG99, QG90, Reg85, 
Riv74b, RNR13, Sam76, SD99c, SD99a, 
Sed83b, Sed88, Sed90, Sed92, Sed93, SD76, 
SG88, SK98, Shn00, TR02, TY91, Vit81b, 
VCS85, Wai88, WFHC92, Wie87b, Wir86, 
XCC09, Yen91, ZG90b, Al08, BMS+17, 
BMQ98, Cra85, DG96, DJRZ06, DJRN09].
algorithm [DC94, EVF06, FJ13, GK05, Gui76c, HK95,
KCB81, LC06, Lit77b, LLW10, Ngu06, Pip79, QV89, QG95, Rog95, Rog99, Rue93, Sas11, Sch01b, SZ93, SvEB84, Web72, WC94, Yao91, vW94, AT90, CKB83a, CO82a, De 95, GQ95, Kan90, QJ97, SRRL98, Zob70a, Zob70b.

Applications
[AT93, BKST18, BG07, Bur81, CZLC12a, CZLC12b, CK15, CJ19, DR06, Deb03, DK02, DK15, DadH92, DR09, Fel50, FM85, HK12b, IEE80a, IEE95, KMM +06, Kna89, Lev89, LDY +16, LK93, MK11, Pon87, RP91, Rey14, RNT90, Ter87, TZ12, TS76, TS84, Val15, Vau06, Wee12, WVT90, YZ00, AG10, AR94, BZL +15, DFMR15, HKNW07, KKP92, LLC89, LK11, LG78, MJ08, MV91a, NY89b, NY89a, NX90, NW07, PW08, PSN95, RRS07, Shi17, SS16, Sie89, Ano92].

Applied
[CS93b, GNP05].

Applying
[Cer87, Cer88, CHY93, CLYY95, CHY97].

Approach
[BH93, CCH09, CK12, DL79, DC94, JV16, LT09, LQH18, MY80, RH95, Sch79a, SR98, SK98, Tsa96, ZO93, BJ07, BCCL10, DAC +13, GS89, JHL +15, NW07, PGV93e, PGV94, QZD +18, QD02, TK99].

APPROX
[DJRZ06, DJNR09].

Approximate
[AMA94, ARA94, LLC89, BCR04].

Arbres
[Kar82].

Architectural
[GLS17].

Architecture
[BCH87, HCJC06, Hsi83, Jou85, KP81, KCR11, KTMoor83a, MK11, WG94, XBH06, ZHB06, ABO +17, BOY11, HLH13, LMP +08, MBK00, RG89].

Architecture-conscious
[ZHB06].

Architectures
[ACM91c, BRW93, DR92, Kie85, MKAA17, MKASJ18, RNT90, Bis12, BMQ98, GK05, HDCM11, adHMR93, LLA15, NW07, PJM88, PJB90, Rei88].

archival
[QD02].

Area
[DD15, ABO +17, BOY11, Lar84].

Area-Efficient
[DD15].

ASSIGNMENTS
[THY +18, DMP09].

Assignment
[LL92, Wil71].

Associations
[SB95].

Asymmetric
[CLP17, BR94, CFN18].

Asymptotic
Asynchronous [KFG15, PAKR93].
Atlanta [ACM83a, ACM83b, USE00a].
Atlantic [Fre90, GMJ90, IEE84].
ATM [SMS91].
Atom [LC12].
Atomic [LMR02].
Attack [CJP12, CMP07, JLH08, KK06, Pey15, PGV90a, Sho0b, WW09, WFW+12, ZF06, BSU12, CJP15, JG95, PGV93a, PGV93b, SXL16].
Attacking [CP95b].
Attacks [ABD+16, BPBBLP12, Bih08, BKM09, CY06, DLS14, DL17, HKKK10, HRS16, KNR10, KLP98, KVK12, LK94, KKMS10, LL15, MRST10, MNS12, Saa12, SY11, Sas11, WYY05d, ZF06, BSU12, ITP14, KL95, KHK10, LS07a, MSP12, WYY05a, WS13].
Attribute [CS83b, CS87, GK94, GK95, HYH93, KG95, RSSD90, RL74, ZZM17, ASW87, HR93].
Attribute-Based [ZZM17].
Auction [SKM01].
Audio [MV01, YTJ06].
Audit [SK99, Ano93a].
Auditing [LRY+15, GB17].
Aufteilungs [vM39].
Aufteilungs- [vM39].
Aug [BD88].
Augmented [ZLC+18].
August [ACM79, LFP82, ABB93, AW89, A+90, Bel00, Bri92, BW92, CRS83a, CGO86, Cop95a, Cop95b, DSS84, DSZ07, DJR06, DJNR09, Fra04, Gi77, GS98, HB93, IEE95, Jen76, JY14, MK89, MS90, PFW85, PK93, RSK9, Ros74, Rov90, Sho05, Sti93, WYY05, Wei99, JWS99, Yu92, Yu02].
AUSCRYPT [SP90, SZ93].
Austin [ACM87, ACM88a, ARA94, Nav85, USE00b].
Australia [Bar83, SP90, SZ93, DG96, MS90, PSN95].
Australian [Bar83].
Austria [Kui92, ICD93].
Auswahl [Pet83, Dos78a].
Authenticate [Yas07].
Authenticated [KV09, PTT16, Sar10, YLS19, BSNP96b, GL06].
Authentication [Abi12, AS96, BCK96a, BCK96b, BKST18, BAN89, CJP12, DCM18, EPR99, FIP02a, GI12, GBL94, HMNB07, HCPLSB12, JRPK07, JK11, KKRJ07, MRW89, NR12, PGV93f, QJ97, RWSN07, Rog95, Rog99, Sho96, TW07, Tsu92a, WSC81, WDF+12, WS03, YY07, CJP10, CBB05, CJP15, HL12, Kra94, Kra95, KCL03, Ku04, KCC05, LLH02, LKY04, LW04, MS09, OCGD11, SPLLHCB14, Sta99, Sti91, Sti94b, SV06, Ts08, Tsu92b, YRY04].
Authenticity [Sch01b, ADF12].
Auto [Lit77a].
Auto-Structuration [Lit77a].
Automata [ACM82, IEE74, LP04, LK93, MNC01, AGK+10, ADG+08, ACR+09, ACJT07, dBvL80, CIM+05, Kui92, NS82, Pat90].
Automated [DGM89, ZZZ3, Cer85].
Automation [IEE11a].
Automaton [ACM90, FNY92, IEE02].
Average [Bra84a, Bra85, Bra86, Gon77, KU10, Reg81, TW91, MT16, THS97].
average-case [Mc02].
avoid [Pat94].
Aware [MZL+19, PG17, BB07, HFF+15, HFF+17, NDM08].
awareness [Li10].
Awesome [Knu19].
AWOC [Rei88].

B [BD84, FK89, Omi88, Omi89a].
B-Trees [BD84, FK89].
Back [DSSW90a, DSSW90b].
Backoff [SHRD09].
Backtracking [WKBA07, YD85].
Backward [CPP08, LLL11].
Balance [IK92].
Balanced [AG10, BAKU99, DW05, DW07, Lep98, LB07, Oto86, Oto88b, PB80, WZ12, FP82, TLL18].
Balancing [HC13, KJC11, Omi91, RRS12, RK01, Top92, TP95, ZJM94a, ZJM94b, ZJM94c, DSD95, SX08, WL07, WT09, XCC09].
Balatonfured [Rue93].
Balls [CRSW11, CRSW13].
Bally [IEE84].
Baltimore [ACM90, FNY92, IEE02].
Band [Meh86, Sol93].
Band-join [Sol93].
Bands [KCF84].
bandwidth [AS09].
BANG
Barreto [FT12], barrier [MPST16], Base [BCH87, CRdPHF12, Chr84, EE86, FM85, Gho77, Gho86, ISK93, McC79, YBQZ17, Zam80, Mar75, Mar77, WLLG08]. Based [AK98, Abi12, AP08, Aum09, AS16, Bal96, BG92, Ben98, BDM12, BHH15, BRS02, BCS09, BRSS10, BI12, Buc82, Bur83b, Bur83c, But17, CCF04, CFP19, CS83b, Ch84b, CS87, CW91, CdM89, CdM90, CW09, CTZD11, CZLC12a, CZLC12b, CZLC14, CT12, CDW19, CadHS00, DGV93, Dae12, DK09, DG85b, DL17, DF01, DR11, DB12, EK93, Fab74, FL04, FR69, FRB11, FH69, FFGOG07, GI12, GSC01, Gri98, GK08, GH07, HMNB07, Hal12, HCDM09, HHL10, HW08, HCPLSB12, HLC10, H¨ul13, HRS16, HBG17, HM19, JXY07, JTOT09, JK11, KSSS86, KM93, KV90, KLR7, KKR07, KJC11, KMV10, KTM085b, KW12, KP96, KP97, KR79, KRJ80, KS15, Kumat94a, KKT91, LM93a, LYY18, LYY19, LW88, LM07, LMJC07, LLZ10, LLO9, LHC05, LLLC17, LRY15, LXL19, LG78, LTS90, MLD94, MKF16]. Based [MCF17, MP12, Mi88, MKAA17, NIS15, NCFK11, NNA12, NB13, OL89, OSR10, PF14o9, PTT16, PC95y, PHG12, PRZ99, PSZ18, Pre97a, RGNMPM12, RTK12, Rey14, RWS07, RNR13, RL74, RK91, SD85, SDRK87, Sch01b, Sch97b, Sch81, SBS16, SC90b, SC90a, SC90e, SK98, Sho96, SKC07, SSS05, SVCC01, Sun15, TZW11, TGGF10, TZ12, TY91, TP15, TK07, US09, WWZ09, WSSO12, XB06, XHZ19, YNW09, YSW11, WL12, YY07, YTJ06, YD86a, ZJ09, ZWH17, ZMM17, ZQS12, ZLC12, vMG12, Ad188, AY14, ASM17, ACPI0, AAG16, BSNP96b, BLC12, BCR04, BC06, BDS09, Bur83a, Cha12, CML13, CCHK08, CJP12, CJP15, CLW98, CJ86, DG85a, DS09a, DHW08, GB17, GL06, GLC08, GZ99, HLL18b, HLL18a, HAK16, HCJC06, HC11, HLMW93, HXMW94, HW88, HL03, JFDF09, JL14, JBWK11, JG95]. Based [KI94, KR190, KST99, Kor08, Kra94, KCL03, Ku04, KCC05, KSC11, KSC12, LMK9b, LDM92, LG11, LND08, LACJ18, LLJ15, LMPW15, MS09, Mei95, MZ198, MS13, MHT13, Mul92, MFES04, MJ14, NS16a, OT95, PCK95, Par18, PPB16, PW06, PBGV89, PV91, PV93e, PV94, QZ18, RP95, SPLHCB14, SV94b, SV95, SGK09, SX08, SRRL09, Sim98, SA17, TWL18, Tsa08, TD93, UIY10, UHT95, VD05, Wil14, WXY02, XLZC14, YCJ12, YSL05, YL79, YZ16, YD86b, ZDI15, FH96, TLLL18]. basée [LG78]. Bases [ABB93, AW89, AAC01, BD88, BDS88, BJZ94, CG06, DSS84, Gon83, Hil78a, Hil78b, Ker75, LT00, LSC91, MDS090, PV85, ST83a, ST83b, Yua92, Yao78, LT80]. Basics [Dre17a]. Basis [BT12a, MW95, CHL07]. Batch [Lyo79]. Batched [Piw85, SG76b]. Bayesian [CSSP15, OGAB14, PKSB18, RH95, SP12]. BC [ACM05, LL08]. BDDs [MJJ+02]. Be [Yao81, CP91c, GMW90, Sch91a, Sim98]. Beach [PD91, RNT90]. Bearbeitung [Koe72]. Beaverton [ODB89]. Behavior [Lev00, Sav90, TTY93]. Beijing [An93c, Yan10]. Beitrag [BL87]. Belgium [BW92, QV93, Vd90, PV93c]. Bell [Lam70]. belt [BDPV06]. belt-and-mill [BDPV06]. Bemerkung [Eck74a]. Benchmarked [MKAA17]. Benefits [Bur79]. Bergen [Ytr06]. Berkeley [ACM86b, DJNR09, IEE06, IEE13]. Berlin [AH03, Yao78]. beschränkt [Wen92]. Besetzungswahrscheinlichkeiten [vM39]. BESM [Ers58b]. better [Mit17]. Between [Bra84a, Bra86, KCF84, Bra85, CCL91, GHW07, LC13, Omi89a, Sar11]. Bewertung
10

[LB102]. **Building** [AÖD19, BC06, HKL07, Mit17, PV95, RMB11, WHS07, Pvo95],
**Built** [Win84]. **Burden** [Oak98], **burst** [AZ10]. **Bushy** [CHY93]. **Business** [Bra88].
**Bystrica** [Rov90], **bytecodes** [SUH86]. **Byzantine** [HGR07].

C [Pla98, USE90, ÁCZ16, Blu95, Eug90, GBY91, Pro89, Sed90, Sed92, Sou92, Tay89].
C/C [Pla98]. **CA** [ACM03a, ACM08a, ACM11, DJNR09, IEE13, Joy03, Cop95a].
**Cache** [Ask05, PWYZ10, PWYZ14, Pro18, PSS09, SBS16, SKC07, YNW09, YT16, AZ10, BFCJ12, CCHK08, HSMB91, KSC11, KSC12, MZK12, QM98].
**Cache-Optimized** [ZH18].
**cache-partitioned** [MZK12].
**Cache-Conscious** [Ask05].
**Cache-Oblivious** [ZH18].
**Cache-tries** [Pro18].
**Caches** [SBS16, SVCC01].

**Caching** [DB12, KM92, Rey14, WBWV16, XBH06, BCR10, Cha12, HL05, KL+97, KSB+99, She06, WZ12, WW00, WW02, ZO13]. **CAD** [KF94, Bar97]. **CAD-based** [KF94].
**Cake** [CHSC18]. **California**
[ACM82, ACM86b, ACM07, Bel00, Bri92, CRSS83a, Cop95b, Fra04, ICD86, ICD87, ICD88, ICD90, IEE11b, Kar98, Shm00, Sho95, Sto93, Sto92, USE90, Wie99, Yun02, Col93, IEE88a, IEE06]. **California/Special** [ACM82].
**Call** [HLC10]. **Cambridge** [ACM86a, BV89, Gol96, JBHJ94, Kil95, And94].
**CAMEROT** [SP88]. **Camera** [BH93]. **CAMSure** [RSK17].
**Can** [CP91c, Dam93, PaI92, Sim98, Dam94, GMW90, Sch91a]. **Canada**
[ACM02, ACM05, ACM08b, AFK90, DSZ07, JY14, LL08, Lev95, Yua92]. **Canadian**
[CCC89]. **candidates** [ABM+12].
**Canonical** [DNV81]. **canonizing** [FGFK10].
**Canterbury** [Oxb86].
**Capabilities** [RS12, Tra63]. **Capability**
[Fab74, Wan84]. **Capability-Based** [Fab74].

**Capacity** [KK85, Tan83, HO72]. **Cape**
[IEE05, MS05].
**cardinalities** [GGR04].

**Cardinality**
[BHIMM12, GL+17, HM03, NTW09].
**Cards** [Ku04]. **Carlo** [BF83, Rey14].
**Carolina** [ACM91c].
**Carry**
[GK08, FJ13, LK16].
**Carry-Less**
[GK08, LK16].
**carry-truncated** [FJ13].

**Carter** [Sar80].
**Cartesian** [Du86].

**Cascade** [KZ84, RTK12]. **Cascaded**
[Jou04].
**Cascading** [Wan14].
**Case**
[ANS09, ANS10, AR17, DMV04, DS09c, El85b, F+03, FKS84, HBL+10, Kut10, Lar82a, YLB90, BGG94, FPSS05, Lar81, Mic02, MT16, SKD15]. **case/average**
[Mic02].
**cash** [Bac01].
**Casino** [IEE84].
**Cassandra** [EH17].
**Catalonia** [LSC91].
**Catalunya** [CTC90].
**Categorization**
[MBBS12].
**Categorized** [LLG+17].
**Cathedral** [IEE88a].
**Cauchy** [TI12].
**Caution** [Mul91].
**Cayley** [GM18, Zém94].
**CBC** [BBKN01, BBKN12].
**CCA** [CZLC14].
**CCA-Secure** [CZLC14].
**Cell** [Mil99, Pag01, Sun93].
**Cells** [JCK+18, WH83].
**Cellular**
[DGV93, MZ198].
**Center**
[ACM91b, Fis87, IEE90, Tuc89].
**Centers**
[SWTX18].
**Centric**
[LT12, SPSP16, WBWV16, XHZ+19, AK09].
**century** [ACM91b].
**Certainty** [Chr84, van94].
**Certificate** [MFES04].
**Certificates** [LK07].
**Chain** [EAA+16, JHL08, LAKW07, LHC05, SM01, YZ00, YSEL09, Bay73b, Par18].
**Chained** [Bay73a, HNS84].
**Chaining**
[BBP88, Cha94, CPP08, DMM05, GSC01, Joh61, Kue82b, MJBD11, Rag93, VC85, CBB05, Kno84, KtlT89, KFG15, Lar84, PW06, TT81, TT86, TLLL18, Kue82a, Rue82b].
**Chains** [BT12a, FL04, Jan08].
**Ngu06, YKLH10, ZQSH12, HL94, JFDF09].
**challenge** [GJM02].
**challenges**
[BFV12, GJM02].
**Challenging** [MSP12].
**Chameleon** [BR14, GZX14, PWY+13, LGW11, CTZD11, Moh11, Zha07].
codering [Lit77a]. Codes [BKST18, BGS96, Bie97, CLP17, Fal85a, Har97, Irbxx, JIP07, KP96, KP97, KGJ018, LQH18, SVCC01, TW07, BJKS93, BJKS94, Bou95, Fal86, Fal88, FM98, GHK+12, Gob75, IG94, Kri89, Mil98, Sti91, Sti94b, vT14, Far93, Bie95].

codification [FDL86]. Coding [Blo70, Boo74, Bur77, Bur78, Bur79, CJ86, DA12, Dav73, Dos78a, FH69, Gon77, HP63, HJ75, HG77, Kam74, Lit77b, Mar64, Mar71, Pip79, SD85, SDKR87, Sta73, Web72, Boy95, Bur76a, Coh94, DVS+14, Far93, LG78, Riv74a, Sab94, SDR83b, Sch79b, Ytr66, HJ75]. Coefficient [KKN12]. Coherent [GLHL11]. Coin [CLP13]. Coins [HR04, Ros12]. Collaboration [JXY07].

collections [AG93, LXL +19, TR02, UIY10]. Collections [BBD +82, BBD +86, LRY78, LRY80, SV15b]. College [J´aj90]. collide [GNP05]. Collision [Ask05, BG93, BR97, BM97, BK12, BKP09, CHKO08, CJC+09, Dam67, HM96, HHL10, HCJC06, IKO05, IT93, IH95, KKT91, MS99, MNS12, Men12, Mit12, MO19, MO91, MC86, NJS+06, Pey15, PACT09, PBGV99, PGV90b, PGV91, Rus92, Rus93, Rus95, Sab81, SY11, SHRD09, SHF+17, Van92, Vau93, WYY05a, WYY05d, XNS+13, YB95, ZBB+06, vW94, AKY13, BGG93, BF08, CHKO12, Gib91, ITP14, KdlT89, Men17, MT16, PGV93g, Sar11, SKP15, SBK+17, TWL+18, Van92, WS13].

Collision-Free [BM97, HM96, Rus92, Rus93, Rus95, SHRD09, BG93, HCJC06, PBGV99, Vau92, Vau93, ZBB+06, BGG93, Van92]. Collision-Mitigation [SHF+17].

Collision-Resistant [BR97, BK12, CHKO08, IKO05, CHKO12]. Collisionful [BPSN97, Gon95, Li95, BSNP96b, BSNP96c]. Collisions [Ano95a, BI87, BT94a, BT94b, CY06, DBGV93, GIS05, GL73, HR04, IP08, IP11, Pat95, VNP10, WFLY04, WYY05b, WYY05c, DV07, Gon95, Li95, Pat94, RVPV02, Sim98]. Colloquium [AGK+10, dBlL80, Kui92, NS82, Pat90, ADG+08, AMSM+09, ACJT07, CIM+05].

Colon [BZM93, ACM88b, ACM88c, ACM88d]. Colorado [BZM93, ACM88c, ACM88d].

Colonies [Ano95a, BI87, BT94a, BT94b, CY06, DBGV93, GIS05, GL73, HR04, IP08, IP11, Pat95, VNP10, WFLY04, WYY05b, WYY05c, DV07, Gon95, Li95, Pat94, RVPV02, Sim98]. Colloquium [AGK+10, dBlL80, Kui92, NS82, Pat90, ADG+08, AMSM+09, ACJT07, CIM+05].

Colonies [Ano95a, BI87, BT94a, BT94b, CY06, DBGV93, GIS05, GL73, HR04, IP08, IP11, Pat95, VNP10, WFLY04, WYY05b, WYY05c, DV07, Gon95, Li95, Pat94, RVPV02, Sim98]. Colloquium [AGK+10, dBlL80, Kui92, NS82, Pat90, ADG+08, AMSM+09, ACJT07, CIM+05].

Colonies [Ano95a, BI87, BT94a, BT94b, CY06, DBGV93, GIS05, GL73, HR04, IP08, IP11, Pat95, VNP10, WFLY04, WYY05b, WYY05c, DV07, Gon95, Li95, Pat94, RVPV02, Sim98]. Colloquium [AGK+10, dBlL80, Kui92, NS82, Pat90, ADG+08, AMSM+09, ACJT07, CIM+05].

Colonies [Ano95a, BI87, BT94a, BT94b, CY06, DBGV93, GIS05, GL73, HR04, IP08, IP11, Pat95, VNP10, WFLY04, WYY05b, WYY05c, DV07, Gon95, Li95, Pat94, RVPV02, Sim98]. Colloquium [AGK+10, dBlL80, Kui92, NS82, Pat90, ADG+08, AMSM+09, ACJT07, CIM+05].

Colonies [Ano95a, BI87, BT94a, BT94b, CY06, DBGV93, GIS05, GL73, HR04, IP08, IP11, Pat95, VNP10, WFLY04, WYY05b, WYY05c, DV07, Gon95, Li95, Pat94, RVPV02, Sim98]. Colloquium [AGK+10, dBlL80, Kui92, NS82, Pat90, ADG+08, AMSM+09, ACJT07, CIM+05].

Colonies [Ano95a, BI87, BT94a, BT94b, CY06, DBGV93, GIS05, GL73, HR04, IP08, IP11, Pat95, VNP10, WFLY04, WYY05b, WYY05c, DV07, Gon95, Li95, Pat94, RVPV02, Sim98]. Colloquium [AGK+10, dBlL80, Kui92, NS82, Pat90, ADG+08, AMSM+09, ACJT07, CIM+05].
[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer

comparisons [FDL86, Rön07].

COMPCON [IEE88a]. compensated

[CHS+18, EK93, GG80, Jai89, Jai92a, Jai92b, Jaixx, LG78, LH03b, QCH+81, RLH91, SDK91, Tro95, KK96, RLH90, TT86].

computer
Condensation [CT96]. Condensers [ATS19]. Conditionally [ACP09]. Conditions [IKO05, IH95, Rus92, Rus93, Rus95, BDPV14]. Conference [ACM81, ACM85a, ACM91b, PDI91, ACM94c, ACM04, AFI69, ABB93, AFK90, VLD82, Ano89, AW89, AAC+91, AOV+99, AA86, Bai81, BD88, Bar83, BDS88, BV89, BIP92, Bel90, BJZ94, BRW93, BL88, Bor81, Boy95, Bri92, BJ93, CCC89, CGO86, CLM89, Cop95b, DSS84, Far93, FNY92, FMA02, Fra04, Fre90, GMJ90, G92, GSW98, HB93, IEE80a, IEE85b, ICD86, Ich87, IEE88a, IEE88d, ICD88, IEE88b, CTC90, ICD90, ICD91, ICD93, IEE94c, IEE95, IEE02, IEE11a, IRM93, JB94, Jon85, JY14, Joy03, Ker75, Kra89, KLT92, LC06, Las87, LCK11, Lie81, LS89, LT80, LSC91, Dom93, MK89, MSD90, Mo92b, Nav85, Oxb86, PV85, PK95, QG95, RRR99, Rie89, RK95, RN90, Sch82a, ST93a, ST93b, SP90, Sho05, SW94b, SC77, Sti93, Sto92, SM08, SM12, USE91, USE00a, USE00b]. Conference [Vau06, Vid90, WYP90, JWSS91, Yan10, Yao78, Yua92, Yun02, ACM94a, ARA94, Ano83, Ano93a, Ano93c, CE95, Cop95a, DG96, DT87, Del03, HFF13, IDE92a, IEE94a, IDE94b, Il010, Nav85, Oxb86, PV85, PK95, QG95, RRR99, Rie89, RK95, RN90, Sch82a, ST93a, ST93b, SP90, Sho05, SW94b, SC77, Sti93, Sto92, SM08, SM12, USE91, USE00a, USE00b]. Conference [Vau06, Vid90, WYP90, JWSS91, Yan10, Yao78, Yua92, Yun02, ACM94a, ARA94, Ano83, Ano93a, Ano93c, CE95, Cop95a, DG96, DT87, Del03, HFF13, IDE92a, IEE94a, IDE94b, Il010, Nav85, Oxb86, PV85, PK95, QG95, RRR99, Rie89, RK95, RN90, Sch82a, ST93a, ST93b, SP90, Sho05, SW94b, SC77, Sti93, Sto92, SM08, SM12, USE91, USE00a, USE00b]. Conference [Vau06, Vid90, WYP90, JWSS91, Yan10, Yao78, Yua92, Yun02, ACM94a, ARA94, Ano83, Ano93a, Ano93c, CE95, Cop95a, DG96, DT87, Del03, HFF13, IDE92a, IEE94a, IDE94b, Il010, Nav85, Oxb86, PV85, PK95, QG95, RRR99, Rie89, RK95, RN90, Sch82a, ST93a, ST93b, SP90, Sho05, SW94b, SC77, Sti93, Sto92, SM08, SM12, USE91, USE00a, USE00b]. Conference [Vau06, Vid90, WYP90, JWSS91, Yan10, Yao78, Yua92, Yun02, ACM94a, ARA94, Ano83, Ano93a, Ano93c, CE95, Cop95a, DG96, DT87, Del03, HFF13, IDE92a, IEE94a, IDE94b, Il010, Nav85, Oxb86, PV85, PK95, QG95, RRR99, Rie89, RK95, RN90, Sch82a, ST93a, ST93b, SP90, Sho05, SW94b, SC77, Sti93, Sto92, SM08, SM12, USE91, USE00a, USE00b]. Conference [Vau06, Vid90, WYP90, JWSS91, Yan10, Yao78, Yua92, Yun02, ACM94a, ARA94, Ano83, Ano93a, Ano93c, CE95, Cop95a, DG96, DT87, Del03, HFF13, IDE92a, IEE94a, IDE94b, Il010, Nav85, Oxb86, PV85, PK95, QG95, RRR99, Rie89, RK95, RN90, Sch82a, ST93a, ST93b, SP90, Sho05, SW94b, SC77, Sti93, Sto92, SM08, SM12, USE91, USE00a, USE00b]. Conference [Vau06, Vid90, WYP90, JWSS91, Yan10, Yao78, Yua92, Yun02, ACM94a, ARA94, Ano83, Ano93a, Ano93c, CE95, Cop95a, DG96, DT87, Del03, HFF13, IDE92a, IEE94a, IDE94b, Il010, Nav85, Oxb86, PV85, PK95, QG95, RRR99, Rie89, RK95, RN90, Sch82a, ST93a, ST93b, SP90, Sho05, SW94b, SC77, Sti93, Sto92, SM08, SM12, USE91, USE00a, USE00b].
[R SSD89b, RSSD90, RSSD92, CW C10].

coprocessor [ TL L07]. copy
[Kil01, SvEB84, AKN12, BATÔ13, CZL12,
K KL+09, Nae95]. cores [ B M S+17]. Corfu
[Rei88]. Corporation [ Fis87]. Corps
[RMB11]. correct [ CE95, CE95].
Correcting [BG896, Har97, FM89,
GHK+12, Mil98, MF82]. Correction
[Bur84, KR79, RJK79, Ven84, Zam80].
correctness [ MMC01]. Correlation
[TGGF10]. Correlations [ Val15].
Correspondence [PH73]. Corrigendum
[AA79b]. Corruption [DD11, DJSN09].
Corruption-Localizing [DJSN09].
cosmological [War14]. Cost
[BM97, BBS90, CJP12, FCHD88, FCHD89,
GI12, HMN807, Kut10, L YW+18, L yo83,
PFS8, C14, CJ15, VBW94].
cost/performance [VBW94]. Costs
[HR96]. could [PES+12]. Counter
[LMP+08, MA S J18, NS16b, Bac02].
Countermeasure [LAW07, MMMT09].
Counters [WLWZ19]. Counting
[Fla83b, FM85, Mck89a, WVT90, DLM07,
EVF06, Mck89b, RKK14]. coupled
[HLH13]. course [PGV93c]. Couvrants
[Kar82]. Coverage [IJK13]. covering
[CLS18, Red92]. CoveringLSH [Pag18].
CPHASH [MZK12]. CPHR [WBWV16].
CPU [HLH13]. CPUs [KKL+09]. CR
[LACJ18]. Cracking [GAS+16]. CRAY
[DS97]. creating [Sag85b]. creation
[FVS12]. Credential [YLSZ19]. credit
[JDF09]. credit-based [JDF09]. Crete
[ACM01]. Criss [GRZ93]. Criss-Cross
[GRZ93]. Criteria [Adi88, AI189].
Criterion [Sun15]. critical [NM10]. Cross
[GRZ93, LWZ+18, MLHK17, WB90,
QZD+18]. Cross-Media [LWZ+18].
Cross-Modal [MLHK17]. cross-platform
[QZD+18]. Cryptanalysis [Aum09, BS91a,
Bih08, BCJ15, BHT98, BP09, DGV93,
Dae95, GO07, GIMS11, HPC02, JNPP14,
Knu92, LP16, LKY04, MR07, Mon19,
NXB13, GLM+10, SPLHCB14, SV94b,
Wag00, WSSO12, WYW14, AP11, BS91b,
BS91c, BHT97, CV05, RP95, SV95].
Cryptanalytic [CJS19]. CRYPTO
[Bel00, Bra90, Bri92, CRS83a, Cop95b,
Fei91, Fra04, MV91c, Sho95, Sti93, Wie99,
Yun02, CP91c]. Crypto’91 [DBGV93].
Cryptoanalysis [HSIR02]. Cryptographer
[Joy03]. Cryptographic
[ARH+18, BDPSNG97, BCR04, BDP11,
BDP97, Bur06, jCPB+12, CLG09, CP87,
DA12, DC98b, Dam90a, Dam91, DDF+07,
Dav91, DY91, DY91, GO07, He94,
MKAA17, PTT16, Pre93, PVG93d, Pre94b,
PB97, Pre99, Pre94c, QV89, QG95, RSS06,
Rja12, RS08, Rue93, SS01, Sch91b, Sch93a,
SZ93, SYI11, Sti06, TSP+11, Vau06, AY14,
ABO+17, BNN+10, BD92, BOY11, CP13,
De 95, ERI14, GPV08, GS94, GQ95, IN89,
KR19, Mic02, NY89b, NY99, RA07,
Sch93b, ZY16]. Cryptographically
[PGV92, Aam03]. Cryptography
[ANS97, ANS05, ACZ16, BD08, DK02,
DK15, IKO808, Ytr06, BGG94, BBDO9b,
Far93, GNP05, JY14, Kil05, PVG93c, Wol93,
Boy95, DG96]. Cryptology [Bri92, CRS83a,
CP87, Dam90a, Dav91, Fei91, Fra04, He94,
IR93, LC06, MV91c, QV89, Rue93, SP90,
SZ93, Sti93, Vau06, Bel00, Bra90, Cop95a,
Cop95b, Dam91, De 95, GQ95, Joy03,
PSN95, QG95, Sho05, Wie99, Yun02].
Cryp tosystem [Jun87, KKT91].
Cryp tosystems [Oka88, Wee11]. CS2
[NM02b]. CT [Joy03]. CT-RSA [Joy03].
Cube [OL89, TY91, OT89].
cube-connected [OT89]. CubeHash
[AD11, BP09, BKKMP9, KMKSL0]. Cuckoo
[ANS09, ANS10, ADW12, ADW14,
BHKN13, BHKN19, DM03, DS09c, DMR11,
FPS13, FMM09, FM11, KMW08, KMW10,
Kut10, Mit09, NSWO8, PR01, PR04, Pag06,
PRM16, PS12, SHF+17, TK07, DS09b,
KM07, Kut06, DK12]. Cumulative
D [CBA94, EAA+16, Fly92, GG92, GK94, LMJC07, LDY+16, WSSO12]. **D-Based** [WSSO12]. **d’Access** [Lit77b, Kar82, Lit77a]. **d’Adressage** [Lit79a]. **Dallas** [ACM98, IEE95, USE91]. **Damgård** [DGV93, Pat95, CDMP05, Gib90, Mir01]. **Darmstadt** [TWW77]. **Darstellung** [Koe72]. **Dartmouth** [Ano93d]. **Data** [ACM81, ACM82, ABB93, AHU83, ABM06, AHS92, VLD82, Ano85a, Ano89, AW89, AAC+01, ANT85, ADF12, BC08, BD88, BDD88, BJL16, BCH87, BJZ94, BFR87, BL88, Boy98, BJM14, BJ93, CLS12, CJ+09, Chr84, CGO86, CLMS99, DA12, CSS84, DT87, DSZ07, DP08, Dri17b, EjKMP80, Eid84, Eil83, Eil85b, Eil82, Fed88, FM85, Fli77, FB87, FBY92, FMA02, GMJ90, Gh77, Gh86, GCMG15, Go92, Gou83, Gro84, GBY91, Grit74, Har71b, Har73, Hem91, Hil78a, Hil78b, HZ66, Hii88, HSB4, IEE85b, ICD86, IC87, ICD88, ICD90, IC91D, IC93D, IH83, IAVB15, JL14, Ker75, KP81, KS12, Kru84, KHH98, Lte81, LTR85, LRY80, Lit89, Lit84, LL87, LSR9, LRY+15, LST80, LSC91, Lom93, LG78, LMR02, MLHK17, Mar75, Mar77, Mcc79, MSDS90, MKE+14, Nav85]. **Data** [NR12, PSSC17, PRR15, PV85, PW94, RNR13, Rou09, RK91, Sar10, Sch01a, SDW14, ST83a, ST83b, SW86, SW94b, Ste82, St092, SM08, SM12, SW87, SWTX18, Tan83, TC93, TY03, TA81, TA86, TGGF10, TS85, TGL+97, Toy92, Toy86, TS76, TS84, VL87, Wal88, WPKK94, WZY+18, WS76, WH83, Win90a, Wir86, WDYT91, WYT93, Wu85, YDT83, YSW+11, YLB90, Yua92, Zam80, ZLDD8, ZOH93, AK09, BR75, BZZ12, BVF12, BGG12, BPT10, BMLLC+19, CXLK19, CLW98, CRS83b, Col93, CH90, FP89a, FVS12, GB17, Ged14, GP08, HC11, HF91, HSMB91, HK13, IGA05, IL90, JDW+19, Kak83, Kan91, Kan93, KRJ09a, Koe72, LNS96, MSK96, MV08, NT01, NM02b, OS88, SLC+07, SB07, She06, Shi17, SE89, SW94a, SA17, TKT+89, VL97, Vit01, WM93, WZ+13, Wil78]. **data** [Wil85a, Yao78, YLC+09, Yu92, YG10, ZKR80, ZLL+07, ACM75b, GM02, ICD87, IEE94a, MO92a, Vit01]. **Data-base** [Mar75, Mar77]. **data-centric** [AK09]. **data-driven** [TKT+89]. **data-intensive** [Shi17]. **Data-stream** [Tan83]. **Data-structures** [Har73]. **Data/Knowledge** [BCH87]. **databanks** [FDL86]. **Database** [ACM82, ACM83a, ACM83b, ACM85b, ACM86a, ACM88a, ACM98b, ACM98a, AA86, Bab79, BG92, DCW91, DKO+84b, DKO+84c, DKO84a, DGG+86, DGS+90b, DGS+90a, DNV81, DT91b, GD87, GHJ+93, Van10, Han90, HCKW90, He87, Hsi83, HF13, IH83, KJG912, Kie85, Kim80, KL87, KTM083a, Ko90, Ket84b, Kum89a, LC86a, LL08, Lla81, Ouk83, SD98a, SD98b, SD98a, Sha86, She91, SD91, Sto88, Tan83, Toy86, Ull82, WVT90, Woe83, Woe87, Yam85, YNKM89, ZJM94b, AS89, AKN12, DKO+84d, EH17, EBD91, FNY92, GC90, HF91, IS+91, JB+94, MKB00, PS08, SSW94, SK88, SE89, SP89, TL93, Vak85, WC94, ZJM94a, ZJM94c, ODB89, BF89, KKP92]. **Databases** [AS82, AOV+99, Bar96, Bal05, BDSPS97, BG80, Bat81, BG82, BS94a, CCH09, Chu90, Chu91, DDF+07, DT91a, DT91b, FM91, FHCD92a, GY91, Gra92, Gra93c, GC95, GSW98, Heu87, HCY97, Kaw15, KR91, LOY00, LDM92, LÖON01, Oxb86, RZ90, RNT90, Sch82a, SPW90, SW91, TRN86, Toy93, AÖD19, AP92, BW89, FHCD92b, HC07, ISO97, KR88, MIGA18, SB95, SB97, SI09, ZLC+18]. **Dataflow**
DHTs [CQW08]. Diagonal [PVM94].
diagonalization [Lia95]. diced [Nic17].

Dichotomy [HW08]. Dicing [Kon10].
dictionaries [DMPP06, DW05, DW07,
GJM02, HMP01, MSK96, MN90, Mi98,
RRS07, Ru08, Wen92].
dictionariis [DMPP06]. Dictionary [CS82, DA93,
Dod82, Dos78b, McK99a, Rad83, Die90,
DHW08, McK99b, Rou07, Sun91, Sun93].

Diego [ACM03a, ACM07, Sto92].

Differences [Gri98]. Different
[LH03b, BW89, Jan05, KS88a].

Differentiability [DRS12]. Differential
[AS82, BS91b, BS91c, CH94, Dae95,
KKMS10, MMMT09, AGJA06, ITP14,
RP95]. difficulty [SKD15, SL88].

Diffusion [SDMS12, SDMS15].
Digest [IEE88a].

Digital [ANS05, BDS09, Cai84, Cip93,
Fox91, GK12a, GT63, LM95, Mek83,
Oka88, Oto85a, PW93, PGV93f, Reg81,
Rou07, Ru08, Ano09, Ano13].

DIGRAM [Wil79].

DIMACS [GJM02]. Dimension
[CT96, LHC05].

Dimensions [BP97]. Dimensions
[AI06, GIM99, KS88b, KS88c, Oto84,
Oto88a, PADHY93, Pre94, TSH97]. Dirty
[MZD*18]. Disc [CC87, CLC92, CF89b].

Discovery [LK10, PKW09, ZO13].

Discrete
[ACM94d, SDA90, SDA91, ACM97a, ACM01,
ACM05, ACM08a, Gib91, Kar98, Li15, MLHK17,
Mat09, SSL+18, Shm00, vW94, NW07].

Discretionary [BDPSNG97]. Discretized
[RNR13]. Discriminant [SY08].
discrimination [CP95a]. Discriminative
[OSR10, HXLX13]. Discs [CF89a, CF89b]. discussed [Gre95]. Discussion [BBR88].

DISH [SKC07]. disjoint [ABB+92]. Disk
[BGF88, Cha88, Du86, Gra94a, ML95, TC93,
WB03, Kor08, Wi14]. disk-based
[Kor08, Wi14]. Disk-tape [ML95]. Disks
[CC91, Vit85, CCL91]. Disorder
[LL86, Lom88, RM88, TB91]. Displace
[BBD09a, Pag99]. Displacement
[Pet13, FWG18]. Displacements
[Jan08, Jan05, Vio05]. display [Sab94].

displaying [Koe72]. Dissemination
[RHM99, RCF11]. Distance
[Bra84a, Bra85, Bra86, NNA12, Zha19,
LP04, MYS12, ZD1+15]. Distances [Bal96].

Distinguishable [Sch11]. Distinguishers
[LJF19, SY11, AP11]. Distinguishing
[HSR+01]. Distortion [CKPT19].

distribute [Die90]. Distributed
[PD191, APV07, BMS+17, CF04, DPH08,
Dev93, Ell83, Ell85b, GGY+19, GY9+19,
GSB94, adH93, HC13, IK92, JXY07,
KLH93, KLM96, KL97, LMSM90, LC96,
LB07, LACJ18, LMR02, ML86, MS02,
MT11, Mey93, MK12, NTW09, PRRR15,
PAVP08, PF85, RHM09, RMB11, SP90,
SW90, SDK91, SM92, SPB88, Spe98,
SWTX18, TT10, TP95, TIP+17, VBW94,
Wi03, BFL12, BPT10, CXY91, DLO6,
DAC+13, HKW05, ISO97, KKP+17,
KLL+09, Kua95, Kym93, LMSM12, LVD+11,
LNS09, LNS96, MLP07, MLS09, MA15,
SP98, WZ12, WST07, WTN09, ZC14,
ZGG05, ZLL+07, ZO13]. Distributing
[KW94]. Distribution [AT93, BBS90,
CM01, DTS75, EAA+16, JCK*18, LMC07,
PK87, RR92, Sch01b, SDT5, WZW+18,
AT90, GB94, Vio05, XCC99].

Distribution-Dependent [DTS75, SDT75].
Distribution-Independent [DTS75].

Distributions
[KS86, KS87a, KS87b, KS89b, RTK12].

Distributive [NP91]. Disturbance
[WLWZ19]. Dither [AP08]. DITTO [SB07].

Diverses [LG78]. Divisible [FL04].
Division [Eck74a, GL73, Gra88, Gra89].
DLIN [CK12]. DM [KL95]. Do [Bur06, HSR+01, HR04]. Document [ANT85, DGM89, LR96a, Wil79, KRML09].
Documentation [DM90]. Documents [WWZ09, WMB99, ZWCL10, WLLG08].
Domain [BR06, Cor00, Cor2, DOP05, KK12, KK18, LT12, LLG11, PC95, RS12, SGY11, SPSP16, ZNPM16]. Donald [Ruc15]. Donnees [Kar82, LG78]. Don’t [BFCJ+12, YT16, BCR10]. Dortmund [Lut88].
Double [Boo72, Bur05, CdM90, GS76, GS78, KLP98, LK94, LM93c, MB03, Men12, OOB17, Pal92, Tho13, Yao85a, KL95, LM88, LLJ15, Men17, MoI90a, MoI90b]. Double-Linked [Pal92].
Dual [CDW+19, MNS12, Wee12, BR75, MJ08]. Dual-Stream [MNS12]. Dublin [ABB93].
Dumping [Fro81]. d’une [LG78]. Duplicate [LK10, LQZH14, MD97, TW91].
Duplicates [Bre91]. duplication [BC08]. durch [Hilb2]. DWT [THY+18]. Dynamic [AL86, AHS92, BGDW95, CS91, CR89, CBA94, DGGL16, Dev93, DKM+88, DadH90, DKN+91, DKM+94, ED88, FNPS97, FHL+19, FS82, GT93, adH90, Kaw85, Kie85, KNT89, Kou93, KS86, KS87a, KS87b, KSC11, KSC12, Lar78, Lar88a, Lar88b, LCC8, LRY+15, MS12, MS02, Mul84a, Mul84b, Mul85, NKT88, OG94a, Ore83, Oto85b, Ouk83, OS83a, OS83b, PLKS07, PG95, RZ90, RT89, RL82, RSSD9a, Reg81, Rob86, Sch79b, Sch81, SSS05, TT10, Vek85, Wan14, YD84, YLSZ19, YBQZ17, YD86a, YD86b, ZRT91, ZJM94a, ZJM94b, ZJM94c, ZO93, CS93a, DMPM06, DHW08, FRS94, FF90, Fro81, HKLS12, HR93, KD92, Lev89, Lin96, Mil98, YG10, SKC07].
Dynamically [LIT78, Litxxb]. dynamicis [DMPP06]. Dynamiques [Kar82]. Dynamisch [DS84a]. Dynamischer [Hilb82].
E-HASH [HGH+12]. early [CV83a, CJKW00, PY88]. early-insertion [CV83a, PY88]. Easier [Bo81, Ego90].
Easily [CMW83]. Eat [CHSC18]. ECDSA [AN05]. ECHO [KOY11, Sch11].
Editors [RW97]. Education [LC86b].
Effect [KNT89, Mac95, Mai92]. Effective [FCH88, FCH89, HW08, PCY95, WDYT91, MA15]. effects [QM98].
Efficiency [DB12, Lei87, PVCO98, UI72, KST99, PT10b]. Efficient [AD08, ASW18, ASBDS16, ASW07, Ast80, AEMR09, AD12, AD14, BR14, BCS09, BOS11, BPZ07, CFP19, CKB85, CLS12, DDF+07, DD15, DGM89, FES09, F+03, FR94, GGY+19, GM79, Gon83, GR93, Gri77, HT01, HM12, HDM09, HHL10, HLC10, IN89, JDW+19, JD12, KU88, KR81, KLadH93, KLM96, KKRJ07, KJC11, KS12, KS86, KS87a, KS87b, KS89b, Kue84b, HGH+12, LW88, LCLX19, LWG11, LXL+19, MZD+18, MP16, MJBD11, MEK+14, MH10, MO92a, MKASJ18, MJ+02, Mul85, NN90, OOK+10, Pag99, PAKR93, PAFV08, Pan05, Qui83, RT81, RFB97, Rémi92, Ros06, Ros07, Sac86, SDMS15, Sh91b, Sch93a, SL16, SGY11, SvEB84, SPSP16, SKM01, TY03, TYZ05, TYSK10, TW07, TS85, TGL+97, Ts18, VL87, Vit85, WYY05d, WWZ09, Woe06b, XHZ+19, YSW+11, YBQZ18, YGC+12, BLP+14, BZL+15, BT93].
efficient [CML+13, CZ14, CLW98, DS90a, FNP90, FPSS05, Gai82, HHL04, HCJC06, adHM93, ILL17, KU86, LIN96, LCH+14, LL15, MSK96, NTW09, OCG11, PCK95,
PBBO12, PSS09, RCF11, SSW94, Sch93b, SX08, Shi17, SV15a, UHT95, VL97, Wie86, WTN09, XLZC14, ZWT+14, SV18.

Efficiently [AP08, Kim99].

Effiziente [Meh77, Meh86].

eigenvalue [JWM+18].

Eight [Van10].

Eighteenth [ACM86b, ACM91d, ACM91a].

Eighth [ACM76, ACM89b, ACM89a, ACM97a, VLD82, ACM96, Go82].

Embedded [SVCC01, vMG12, Hui90, TLLL07, TLLL09, UIY10].

Embedding [CLP17].

Embeddings [AEP18].

EMD [BR06].

Emde [Wil00].

Emergence [Fox91].

Empirical [DMP09].

Employing [Per73].

Emulated [EK93].

Emulations [Kel93, Kel96].

en-route [YG10].

enabled [BZZ12].

Enabling [GYW+19, HDCM09, LCLX19, SMZ18, TT10, SLC+07].

Encapsulation [HM12].

Encipherment [BM76].

Encoding

[Ano95c, KP94, Wil79, CVR14, RRS07].

Encodings [BHIMM12].

Encrypted

[GYW+19, Kaw15].

Encryption

[CS02, DC98a, Kae93, NTY12, PRZ99, Sar10, ZMM17, ZHZ+19, And94, BR94, Bir07, Gol96, GBL94, Sab94, ZCQ19].

Energy

[AS16, KYS05, HGH+12, YSW+11, CZ14].

Energy-Efficient [GHG+12].

Energy-Harvesting [AS16].

Engine

[YNK89, BC06, NM02b, PES+12, SSW94].

Engineer [Jac92].

Engineering

[Gol92, Got83, ICD86, ICD87, ICD88, ICD90, ICD91, ICD93, Lew82, Wal88, ARA94, Ano93c, IEE94a, Yu92, Ano89].

England [ACM94b, Pat90].

English

[CS82, Dit76, Wan05].

Enhance

[Lit84, CZ14].

Enhanced [RS12, LG96].

Enhancement [HMMN07].

Enhancements

[Grain93a, EnRUPT [IP11], ensemble [ZNP16]].

Entire [FDL86, Nic17].

entity [ZLC+18].

Entropy

[And94, ATS19, HHR+10, KM88b, NRW90, CKKK09, MV08].

Entry [YL90].

Environment

[DGM89, ML94, MS88a, RS92, RL74, SD90c, SD98a, SSS05, ZG90b, Kha95, QD+18, SD98d, TMB02].

Environments [ZG90a, DGA10, RCF11].

EOS [BP94].

EPGAs [YTHC97].

Equality

[TD93, WC81, AD08, GRR+11, ZCQ19].

equalization [PCK95, UHT95].

Equations

[Aum09].

Equijoin [SW91].

Equiprobable [PB80].

Equivalence [Mar71, de 69].

eraser [AAGG18].

Erasure [KGG18].

Ergife [IEE88d].

Erlang

[TCP+17].

Erratum [FW77].

Error

[BGS96, Har97, Kue84b, Mil98, MKASJ18, RJK79, WLWZ19, FM98, GHK+12, Rön07].

Error-Correcting

[BGS96, GHK+12].

Error-Correction [RJK79].

Errors

[Blo70, Zam80, MF82].

ErsatzPasswords

[GAS+16].

ESA [EF12, FS09, HM08].

ESAT [PG93c].

essays [BC39].

Establishment [DL12].

estimate [Rön07].

estimated [Nic17].

Estimating

[Leb87, MBK80].

Estimation

[GLL17, IJK13, TGGF10, TZ12, HKL04, LNS11, LDK12, NTW09].

estimators

[HYK08].

eTCR [HKKK13, RWSN07].

Ethernet [KCR11].

Etude [Mek83, LG78].

Euclidean

[SWQ+14].

Euler [Cha84b].

EUROCRYPT

[CP87, Dam90a, Dam91, Dav91, De 95, GQ95, Hel94, QV98, QG95, Rue93, Vau06].

Europe [BRW93].

European

[EF12, FS09, HM08].

EUROSAM [Ng79].

Evaluating [HAKM15, RS92].

Evaluation [AHL88, BGDW95, CRSW11, CRSW13].
Chr84, Fla81, Fla83a, Gra93b, Gra93c, Gri77, HNS84, KTN92, LCLX19, LLO99, MXL+12, ML86, MLxx, MS88a, NMX19, Pag99, SD89c, SD89a, SC90b, SC90a, SC90c, Stu85, TNKT92, Web72, Woo89, YNKM89, CHS+18, GDA10, RLM87, SD89d, TMB02.

Eve [AAE+14]. Even [Bosxx, Tho00].

Event [McKi89a, McKi89b, ZLY+13].

Everything [Kil01]. Everything [KTN92, MLD94, TNKT92]. evolution [PGV93c]. Evolutionary [DLT98].

Exact [Cor00, Ram88a, Vio05, Lia95]. Examining [Wil00]. Example [FHMU85]. Exceed [Pal92]. Except [OWZ14]. Exchange [KV09, BSNP96b, GL06, LW04]. Exclusive [Kno71]. Expander [CLG09]. Expanders [BK07b, Tho13]. expanding [FNY92]. Expandible [CL95]. Expansion [AVZ11, Gri77, Mai92]. Expansions [Lar80b, Lar80c, Lar82b, Lar82c, Lar82d, Larxx, RSSD89a]. expansive [LS96].

Expectation [GM91]. Expected [Gon81, Lar81, Lar82a]. Experimental [ANS09, JHL+15]. Experiments [KL96, Wil79].

Expert [ARA94]. Explicit [ADW12, ADW14, Bla00, CL83, LS06, MvT08, WX01, GJR79]. exploit [AZ10].

Exploitation [LAD+12]. Exploiting [Bre91, CKKW00, GHW07, HL12, MSS96, MV08, HAK+16]. Exploration [CH94, PSSC17].

Expanding [Ana95a].

Expansible [SL96].

Extended [DP08, HBG+17, Ter87, YNKM89, YD84, YTHC97].

Extenders [RS12].

Extendible [BK84, Bry84, Chu91, Chu92, DT91a, DT91b, Ell83, Ell88, FNP879, Fla81, Fla83a, Hac93, HSM95, HYH89, HY86, KR86b, KR86a, Kum89a, LOON01, Men82, MH00, Oto84, Oto86, Oto88a, RLH91, RS77, Tam81, Tam82, Yao80, Hua85, Kum89b, MKSiA98, RLH90, RS75, Wee88].

Extending [CMP07, JB94, SS01, WKBA07].

Extensible [BG92, Gra94c, Hei90, Kum90, Rém92, KR88, SS06, BP94].

Extension [BR06, CDW+19, Lit77a, LLG12, PSZ18, FYG11, WH83, Bak09, SFA+19].

Extensions [CSSP15, Heu87].

External [AS89, AGMT11, GL82, GL88, Gra94a, GT63, JP08, LR85, LRY78, LRY80, Vit01, Woe06b, RT98, RB91].

External-Memory [AGMT11].

Extractable [ACP09, CZLC12b, CZLC14, Woe11].

Extracting [HZ86].

Extracts [FC87b, KKN12, LDY+16, ZLY+12].

Extremely [Sie04].

FA [CKW09].

Face [KGJG12].

Fachgespräch [Lut88].

Facility [VL87, FF90, VL97].

Factor [CFP19].

Factoring [CTZD11].

Factorization [FS82].

Failure [Ana95a].

Fairfax [ACM94a, WGM88].

Fake [Ana96, LAKW07].

Fall [AFI69].

Fallen [HCPLSB12].

False [Pag18, CVR14].

Families [ADW12, ADW14, BW98, Bla00, CRSW11, CRSW13, F84, HHL10, SG16, WX01, AG10, BJ07, BT13, BJKS93, BJKS94, CRS83b, CL09a, CL09b, CLS18, FH15, GW94, LS06, LCL13, MvT08, WC07, Woe06a, vT14].

Family [BDM+12, BKST18, FLS+10, GK08, Håd01, IT93, MWHC92, MWHC96, SK05, ACP10, AMP12, BDPV12, FPS17, KRT07, Sar13, SRR98].

Fast
[AKS78, AP92, AB12, BH91, BRM+09, BS97, BS94b, BS94a, BGV96, BT12b, CH12, CS85a, CCW+17, CWC10, CD84b, CRR18, CS82, DC98a, Dit91, EPR99, FNPS79, FFGL09, GM91, GM94, GM98, GC95, GK94, GK95, GO15, Gui89, HK95, HKLS12, HW08, HXLX13, KG95, Kei96, KP97, KL98, KR79, KR01, KRML09, LQZH14, LM95, LK14, LR09, LS15, LL87, Mad80, MSD19, NR12, Os14, Pea90, Pea91, PQ98, PQ99, PKSB18, PV95, Rey14, Rog95, Rog99, SG76a, Sav90, Sav91, SMZ18, ST86, She78, SY08, Sh96, Tho13, Tho17, Ven84, WH83, Yan05, YBQZ17, YKLH10, AB96, BS94c, CXLK19, CCA+12, DC94, FFGL10, HF91, KKL+09, KHH89, MSD16, MPO90, Mer90a, MZ98, MSST16, PVO95, Sag85b, SP12, Sie89, SV15b, Tho00, TLLL09, WWG+18, YTHC97, YZ16]. fast [ZO13, ZHC+13, And94, Bir07, Gol94]. Faster [ASM17, CRSW11, CRSW13, FCH92, LK16, McC79, Bosxx, HKL04, LS15, Sna87]. Fault [AAB+92, DSSW90a, DSSW90b, MAK17, HGR07]. Faulty [JCK+18]. FCD [ISO97]. FCSRs [BDM+12]. Fe [Gol94]. Feal [BS91b, BS91a]. Feasibility [CKM14]. Feature [LMC07, NS16a, Som99, TWZW11, Fly92, MHT+13]. Feature-Based [TWZW11]. Features [DHT+19, MS12, MBBS12, PKW09, SSaS01, THY+18, Tsa96, Tsa94, ZLY+13]. Feb [Bar83]. February [AH03, Gol96, Gol92, IE84, ICD86, ICD87, IE88a, ICD88, ICD90, IE94a, KI94, Ki05, Rie89, USE00b, Wol93, Yu92]. Federal [Dan13]. fehlerbehandlung [Kue84a]. fehlererkennung [Kue83]. Feistel [SY11]. Fencing [TYZ01]. FFT [BGG93, BGG93, DBGV93, Scho91b, Schl93a, Schl93b, SV94a, Van92, Van92, Van93]. FFT-Hash [DBGV93, Schl93b, Schl93a, Van92]. FFT-Hash-II [Vau93, Vau92]. FFT-Hashing [SV94a, Sch91b]. FGS [KM09]. Fichier [Lit77a]. Fields [AU79, HJ96, WX01, LS06]. Fifteenth [AW98]. Fifth [ACM86a, ACM03a, BAI81, Mo92b, OX86, ACMS94d, AOV+99, GJM02, CTC90, Mo92b]. Fifty [Kon10]. File [BG88, Bat80, Bat82, BCR87, Buc63, Bur75b, CS83b, CF89a, CE70, DS84b, DGM89, DT91a, DT91b, CF87a, FZ87, GGY+19, GIS05, GG74, Gro86, HP63, Har88, KS88b, KS88c, LRS82c, LRS84, LRS85, LRS86, Lit80, Litxxa, Lom88, Lu73, MF92, Mi63, Mi85, MK93, NHS84, OLS89, ORE88, PSS90, RL89, RS89a, RS89b, RS89c, RS89d, Rot89, Sal88, SS82, SCH79, SCH81, SWTX18, Tha88, Wie83, WIE87a, WRI83, WB03, YD86a, vDP72, vDP73, BY89, BR75, Bra88, CC88a, DA+13, FE809, IN81, KOU93, OMI89a, RMM88, SG72, BBV94, YD86b, van73]. Files [AS82, AN85, BM76, BHS85, BRA84a, BRA86, CC87, CS87, CC91, CLC92, CL95, CL87, CS93b, Du86, FNP97, FE87, GRI74, HB89a, HB92, Lar81, Lar82a, LRS85a, LR96a, LCM94, Lit79b, LY71, MY79, ML85, Oto85a, Piw85, RS89b, RS89c, RS89d, Rot89, SG76b, TK88, ZRT91, Bra85, CS93a, CL91, HB89b, LNS93, LY72, ORX90, OMI89a, RB91, TC83]. Filing [FC87a, DH84]. filling [GZ99]. Filter [CCH09, Kau15, MK11, LZ06, RKK14, RK15]. Filtered [Ahn93]. filtering [KRM90, MK12, RCFF11, YG10]. Filters [CHY93, CHY97, KIE85, LYY+18, RAM89b, DK06, HKL07, HKLS12, HXLX13, ISO97, PSS09]. Final [MO92a]. Financial [ANS05]. Find [Hol13, Lan06, Pat94]. Finding [CBK83, Cer85, CKB85, Cer87, Cer88, Coh98, CH09, CM93, DR06, FCH88, FCH89, HK86, HG77, HR04, KI84, SH92, SH94, SIM98, VAL15, WYY05b, WYY05c, YUV75, FHC89, MI84]. fine [KLSV12].
fine-grained [KLSV12]. Fingerprint [JTOT09, LMC07, LMJC07].
Fingerprinting [Rou09]. Finite [Gri98, HJ96, Ram88a, WX01, FH15, KHK12, LS06, LK93]. FIPS [Dan13, Ano93b, Ano95b, NIS93, Nat95].
Firewalls [Kal01]. First [ACM89c, SDA90, PDI91, BBD09b, FNY92, adHMR93, PM89, DLM07, Fis87, SBK17].
first-order [Gri98, HJ96, Ram88a, WX01, FH15, KHK12, LS06, LK93]. FIPS [Dan13, Ano93b, Ano95b, NIS93, Nat95].
Firewalls [Kal01]. First [ACM89c, SDA90, PDI91, BBD09b, FNY92, adHMR93, PM89, DLM07, Fis87, SBK17].
first-order [Gri98, HJ96, Ram88a, WX01, FH15, KHK12, LS06, LK93]. FIPS [Dan13, Ano93b, Ano95b, NIS93, Nat95].
Firewalls [Kal01]. First [ACM89c, SDA90, PDI91, BBD09b, FNY92, adHMR93, PM89, DLM07, Fis87, SBK17].
first-order [Gri98, HJ96, Ram88a, WX01, FH15, KHK12, LS06, LK93].
**Full-Text** [YSW⁺11, RCF11]. **Function**
[Abi12, ÁVZ11, Aum09, AMPH14, BPSN97, BF83, BDM⁺12, BS94b, BS94a, BKST18, BRS02, Bla95, BKL⁺11, BDP97, CP91c, Cer81, CKB83b, CN08, Cob94, CBA94, CMP07, CO82b, CDPD05, DBGV93, DGV93, Dae95, DC98b, DLT98, Dat88, DL80, FLS⁺10, GIS05, Gei95, Gei96, GSC01, GIMS11, HPC02, Har97, Hol13, HLC10, JP07, Kal01, KRP09b, KCB81, Kra82, Kul84, KKT91, LFW98, LP15, Lis07, Lis80, LG78, MR07, MRST10, MNS12, MIO89, NIS15, Oto84, PA08, PV92, PH10, PHG12, PBD07, GLM⁺10, RB01, Sch11, Sch90a, Sch91b, SBY11, Sta06a, TC93, TT93, WV90, WSS012, Win83, Win84, Woh84, WFW⁺12, YD84, Yen05, WL12, ZWW⁺12, AKY13, ACP10, AB96, AMP15, ABO⁺17, AP11, BGKZ12, BNN⁺10, BDPV06, BDPV12, BOY11, BS94c, BW89, CK83a, CK89, DK94, DF89, FP82].

**function**
[GM18, Gib91, HR07, Han17, ITP14, LW04, Lia95, LWG11, MJ08, Mer90a, MZI98, Mit17, Mon19, NSW09, Pat94, Pat95, PVCQ08, QJ97, RS14, SB14, SS92, Sch82b, SRL98, SHA97, SXL16, Tsa08, VNP10, VFN91, WS13, WYW14, YL97, YZ16].

**Functional**
[LFP82, GMP95, SV18, ZKR08, Jon85].

**Functions**
[ABV98, AFK83, AFK84, AN96, ASW81, ACZ16, AA79b, AA79a, And91, ABD⁺16, Ano95a, AEMR09, AR17, AM07, AP08, BSNP96a, BDP99, BCK96a, BCK96b, BR14, BBD⁺82, BBD⁺86, BGS96, Bih08, BCS09, BRSS10, BCFW09, BK12, Bol79, BP207, BHT98, BI86, BUR78, BDMD19, Can97, CWT77a, CWT77b, CW79, CMW83, CBK83, Cer85, CBK85, CBK85, Cer87, Cer88, CS83a, CS83b, CS85c, CS85b, CS85a, CS86, Cha86b, CS87, CLNY06, CLG09, CK15, Chi91, Chi94, Cic80a, Cic80b, CE70, Coh97, CH94, CHM92a, CHM92b, CM93, DGV93, Dam87, Dam90b, DDF⁺07, DK07, DY90, DY91, DTS75, DADH90, DGM92, Die07, DGKK12, EKR93, EPR99, Fil92, FL08, FLP08, FL14, FFGL09, FCHD88, FCHD89, FCD90, FCD91, FCD92, FHC90, FHC91, FHC92, FHC93, FHC94, GO07, Get01, Gir87, GHK91a].

**Functions**
[GHK91b, GLG⁺02, GK08, HHR⁺10, Hal12, HM12, HJ96, HKY12, HS08, HK12b, HR04, Ind01, IT93, JO80, Jae81, Jen97, Jou04, JD12, KHS84, KL06, Kno75, KP96, KLP98, KV12, LM93a, LM94, LT09, LM95, Lis07, LH03a, LL12, Mal92, MWCH92, MCW78, Mar64, MHL82, MP12, MHL90b, Mir01, MRW89, Mit02, MO10, MO19, Moli11, Mul91, NIS15, NM02a, NCFK11, N99, NR15, OBO12, Otk91, Pag99, PWC⁺13, PB80, PQ98, PQ99, PW93, PV90a, PV90b, PV92, Pre93, PV93d, PV93f, Pre94a, PV95, Pre97a, Pre97b, Pre99, Pre94c, QG89, QC90, RP91, RR08, RWS07, Rua12, Roe84, RS08, Rif93, SP91, Sag84, Sag85a, SDMS12, SDMS15, San76, SS01, SS88, Sch91a, SRY99, Sho00a, Sho00b, Sie04, SVEB84, SDT75]. **Functions**
[Spr77, Sti06, TV83, Tro92, Tro95, Uhl70, Uhl72, WFLY04, Wee12, WC79, WC81, WKO78, YD85, ZHA11, Zha07, Zhe90, ZMJ91, VW94, van94, vdBGLG⁺16, AY14, AAB⁺92, ADM⁺99, AG10, And93, AMP12, AAGG16, BSNP96b, BSNP96c, BD02, BCR04, BDPV07, BDP11, BJS93, BJS94, BSU12, Bra09, BHT97, BM01, CMR98, CN18, CB81, CCHK08, D709a, DW03, ESRI14, FPS17, FFGL10, FHC90, FHC92b, GKK10, Ged14, GW94, GPGO16, Gou95, GLCO8, GK12b, HK86, HC11, HLMW93, HXM94, HKK13, HSK88, HYLT99, HL12, Hug85, ISO97, ISO04, JCC00, JG95, KST99, KL95, KRT07, KHK10, Kra95, Kri89, LS07a, LM93b, LLH02, LKY04, LI95, LI10, LC13, MS09, Mei95, Mic02, MV08, MS13, MSP12, MT16, Mul92, Nae95, NY89b, NY89a, OS14, OS10, PW08, PW06, Pob86].
functions [PGV93a, PGV91, PGV93b, PGV93e, PGV93g, Pre94b, PGV94, Pvo95, RB91, RFB97, RZ97, RP95, Roe95, Sar80, SS90b, ST85, SH92, SH94, SL88, SS16, Sie89, Sim98, SV06, TZ94a, Tsu92a, Tsu92b, VD05, XCCK09, YL04, YRY04, Zém94, ZW05, ZBB+06, ZDI+15, RRS06].

functions-based [HC11].

Fundamental [LYD71, LY72].

Fundamentals [HS78, HS84].

Further [Lit85, Sar15, DM03].

Fusion [Wil00].

Fuzzy [LMC07, LMJC07, LII92, HC14].

G2 [BP18].

Gallery [BFR87].

Galois [HJ96].

Gamma [DGS+90b, DGS+90a, GD87, DGG+86].

Gap [ATS19].

Garbage [AG93, FW76, FW77, UIY10].

gates [GHK+12].

Gb/s [BLC12].

GBDD [YTHC97].

GCM [Saa12].

Gigabytes [WMB99].

Girths [Zem91].

Give [AT93, AT90].

Global [CLP13, CII95, DL79, LPSW03, MD97].

Globally [HSW88].

GLUON [BDM+12].

gMig [MZD+18].

GNU [Wil14].

Go [Bur06].

Goddard [Fis87].

Goes [Cip93].

Gold [SZ93].

gone [Nic17].

Gong [BPSN97].

Good [Bur92, Hol13, JP07, Lom88, Mit02, ADM+97, Kou93].

Goodyear [Fis87].

GORDION [EE86].

gossiping [GHW07].

GOST [LJF19, WYW14].

GPERF [Sch90a, SS92].

GPU [ASA+09, FRB11, HLH13, LLAA15, MZD+18, TWL+18].

GRAB [Les88].

GRACE [KTM83b, KTM83c, KNT89, KTN92].

Graduate [Ano93d].

Grained [PAKR93, KLSV12].

Gram [Ven86, Coh98].

Grams [BRM+09, Coh97].

granular [CLS12].

Graph [Ari94, BMQ98, Hal12, HM93, JBWK11, KM88b, MD97, MBBS12, NRW90, TI12, YKWy83, BPT10, CML+13, CLL+14, FH+19, Kor08, Mol90a, Mol90b, WLLG08, vL94].

Graph-Based [Hal12, JBWK11].

Graph-Entropy [Ari94].

graph-structured [BPT10, WLLG08].

Graph-theoretic [vL94].

Graphic
Graphics [Leb87, RKLC+11].

Graphische [Lut88]. Graphs [CLG09, HMWC94, KPS92, Kmn98, Zem91, AD08, AAB+92, AS07, DW03, FGFK10, HK83, Kut06, LL13, Zén94].

Grid [CLD82, Fal85a, DL80, Fal86, Fal88].

Greece [ACM01, AMS+09, Rei88].

Greedy [WTZ+13, AGJA06].

Greenspan [Fis87].

Greenbelt [KRT07, Pey15].

Grøstl [ABO+17, ITP14, MRST10, WFW+12].

Grøstl-0 [ITP14].

Group [ACM82, DT87, DD11, KKW99, LND08, Mue04, TZ94a, YLC+09].

Group-based [LND08].

Group-by [KKW99, YLC+09].

Group-theoretic [TZ94a].

Groups [HM12, LLW10, PWY+13, Reg82, CFYT94].

Growth [Oto88a, Rey14].

Guangdong [IEE11a].

Guaranteed [RT89].

Guaranteeing [LK84].

Guess [ZF06].

Guess-and-Determine [ZF06].

Guest [Fox91, DLM07, RW97].

Guide [AS82, SD76].

Guess-and-Determine [ZF06].

Guaranteed [RT89].

Guess [ZF06].

Guess-and-Determine [ZF06].

Guide [AS82, SD76].

Guaranteeing [LK84].

Guess [ZF06].

Guess-and-Determine [ZF06].

Guide [AS82, SD76].

Guess-and-Determine [ZF06].

Guest [Fox91, DLM07, RW97].

Guide [AS82, SD76].

Guaranteeing [LK84].

Guide [AS82, SD76].

Guess-and-Determine [ZF06].

Guide [AS82, SD76].

Guaranteeing [LK84].

Guide [AS82, SD76].

Guaranteeing [LK84].

Guide [AS82, SD76].

Guess-and-Determine [ZF06].

Guide [AS82, SD76].
DhK+15, Dev99, DAC+13, DadH90, DGMF92, Die07, DSo9c, DCM18, DL17, DOP05, DRS12, DF01. **Hash**

[DC81, Dos78a, DB12, DHJ80, DHJS83, DGKK12, Eck74a, Eck74b, EAA+16, EK93, EMM07, EH12, EPR99, FIP93, FIP02b, FL04, FLS+10, FLF11, FRB11, FFPV84, Fl02, FL08, FL080, FL14, FFG109, FB87, F+03, FCHD88, FCHD89, FCDH90, FCDH91, FCH92, FHC92a, FK84, GK05, GO07, GK12a, GIS05, Gei95, Gei96, GHR99, Ger86a, Ger86b, Get01, Gi87, GI2, GSC01, GHK91a, GHK91b, Gon77, Gon81, GRS91, Gra93a, Gra93b, Gra94a, GLS94, GBC98, Gra99, GIS10i1, GLG+02, GK94, GK95, GK08, HMBN06, HHR+10, HP78, Hal12, HPC02, HDMC09, Har97, HHL10, HCJC06, HW08, HC11, He91i, HJ96, HCPPLS12, HJ75, HH77, HIL82, HS08, HK12b, Hol13, HHKK10, Hop66b, HD72, HCY94, HCY97, HR04, HC13, HLC10, HIL13, HRS16, HBG+17, ISO04, IK92, IG77, IG94.]

**Hash**

[IP08, Ind01, Irbxx, IABV15, IT93, IL90, JOS0, Jen97, JRPK07, JHL08, JL14, JXY07, Jou04, JD12, JK11, JP07, KG95, KMM+06, KK12, KK18, Kal01, Kam74, KHK12, KHK15, KH84, KM09, KR91, KK06, KKW99, KII01, KKRJ07, KJR09b, KJC11, KKK12, KM10, KTM03a, KTMO83b, KNT89, KO90, KTN92, KW12, Kn071, Kdt89, KP96, KLP08, KR97, KRJ+08, KK85, KVK12, KC80, Kra82, Kue82b, Kue84b, Klu84, KKT91, LF17, LK07, LM93a, LM93b, LK94, LYY+18, LLY+19, Lam70, Lan06, LT12, Lar81, Lar82a, Lar85a, Lar88a, LAKW07, LMJC07, LK10, LMSM09, LT09, LM95, Lev00, LJF19, LLL09, LÖÖ01, LCH05, LWWQ08, Lip02, Lis07, Lit89, Lit77a, Lit77b, LC96, LR+15, LR96b, LL85, LB07, LAC18, LTS90, LH03a, LLG12, LMR02, Leo85, MXL+12, MD05, MSD19, Ma92, MTA17.]

**Hash**

[MWCH92, MS12, MS02, MT11, MCW78, Mar64, Mar71, MLD94, ML75, Mau83, McC79, MKF+16, MCF17, McK98a, Mel82, Mei95, MR07, MRST10, MNS12, MP12, Mer72, Mer90b, Mii85, Mir01, MRW99, Mit12, MW95, Mit02, MO98, MOJ90, MOI91, Mol91, Mot84, MKAA17, MKASJ18, Mue09, MJT+02, Mui91, Mul92, MC86, Nat92, NIS03, Nat95, NIS15, NM02a, NCFK11, NKT88, NNA12, NS16a, NP99, NSW09, Ngu06, NTy12, NR12, NxB13, NY85, NAK+15, OL91, Omi88, OL89, Omi91, OL92, Ore83, Oto86, Pag99, Pag85, PAPV08, PWY+13, PCL93a, PV92, PFM+09, PTT16, PCY95, PH01, PLK507, PV07, PHG12, PBDD95, PG95, PRK89, PRZ99, PW93, Pip94, Pla98, PGV90a, PGV90b, PG92, Pre93, PGV93d, PGV93e, PGV93f, Pre94a, PGV94, PV95, PBD97.]

**Hash**

[Pre97a, Pre97b, Pre99, Pre94c, Pro89, QG89, QG90, Ram88a, RRS06, RR08, GLM+10, RRS12, RJK79, Rey14, RWSN07, RS12, RG89, RB01, RHM09, Riv76, Riv78, Rja12, RNR13, Roe94, RS08, RMB11, Ros06, Ros07, Rot89, RK91, Rul93, SP91, Sag85a, SDMS12, SDMS15, SD78, Sam81, SS01, Sch11, SS80, SS88, Sch90a, Sch91a, Sch91b, Sch93a, SV94b, Sch79b, SBS16, SG16, SBY11, SW91, SX08, SYR99, SK98, Sho00a, Sho00b, Sie04, SM02, SK05, SvEB84, Sol93, Som99, SPSP16, Spec92, Sta94, Sta06a, Sti06, SKM01, Szy82, Szy85, TIT0, TR02, TY91, Top92, TP95, Toy93, TNP91, Tsu92a, TSP+11, Van92, Vau92, Vau93, VB00, WX01, WFLY04, WLLG08, WW09, WZJS10, WSSO12, WBWV16, Web72, Wee11, WC79, WC81, WBKA07, Win83, Win84, WK078.]

**Hash**

[Woe06b, WDT91, WYT93, Wol84, Wu05, WFW+12, XNS+13, XBO06, YNW+09, YAM85, YDS84, YDS85, Yap05, YSW+11, YT16, Yao95, YLS05, WL12, YLB90, Yen91, YZ00, YCR93, YY07, YY01, YSE09, YKLH10, ZG90a, ZG90b, Zel91, Zem91, Zén94, Zha07, ZLY+12, ZZZ17, ZJM94a,
Hash-Routing [WBWV16, SPSP16]. Hash-Search [WWZ09]. Hash-semijoin [CCY91]. Hash-Sequential [Lit89, IL90]. Hash-Speicherung [BJMM94b, BJMM94a]. Hash-Structured [CS93b], Hash-Tabellen [BI87]. Hash-Tables [LMSM09, LMSM12]. hash-tries [SV18]. hash-values [GS94]. Hash-verfahren [Hil82]. Hash/Table [DAC +13]. HAShCache [PG17]. Hashcash [Bac02]. Hashcodingverfahren [Sta73]. Hashed [GJR79, GG74, HYKS08, KS12, LI80, MF92, Mul72, SVCC01, VL87, WS93, WM19, And88, GMW90, HSBM91, Ken73, War14]. Hashedcubes [PSSC17]. Hashes [BC08, Saa12, Sch01b, Sch01a, Wan14, GvR08, GP08, GNP05]. hashfunctions [PBGV89]. Hashiguchi [LP04]. Hashimoto [SSa01]. Hashing [ACP09, AK98, Alm86, Alm87, Alm93, AKS78, AAE+14, Ald87, Ald88, AHS92, AP93, AA79b, AAT98, ANS09, ANS10, Ari94, ABH+73, AT93, ASW07, Ast80, AS96, AC74, ATK75, ADW12, ADW14, BYSP98, BAL96, Bal05, BH90, BP97, Bar97, BG93, BGH12, BH91, BK84, BR97, BM97, BHMM12, BJMM94b, BBD+82, BBD+86, BHKN13, BHNK19, Bie97, Bin96, Bia95, BG07, BOL81, BGV96, BM90b, BI12, BK07b, BT90, BT94a, BT94b, BK90, BT12b, BH86, BRY84, BP18, BUR92, BUR76b, BUR81, BUR84, BC90, CP91a, CHKO08, CH12, CLM85, CEB86, CM86, CF92, CSSP15, CLD82, CS83a, CS83b, Cha84b, Chas84c, CS85c, CS85b, CS85a, Cha85, CS86, CEB86a, Cha86b, CSS87, CS87, CS88b, CC91, CW91, CC91, CLC92]. Hashing [CL95, CL05, CLC06, CV83b, CV84, Che84a, Che84b, CV86, CW09, CTZD11, CZ17, CKPT19, Chi93, CT12, CJC+09, CK94, Chun91, Chun92, CV08, CKW09, CE70, Coh97, CS82b, CHK85, CH94, CG79, DA12, CDW+19, CadHS00, DW83a, DC98a, DKRT15, DAM93, DLT98, DPH08, Dat88, DD11, vDSDW74b, DS84a, DGD02, DTS75, DL79, Dev93, DMV04, DJSN09, DadH90, DadH92, DMR11, DTY08, Dit91, DOD82, DHL+94, DHL+02, DLH09, DSSW90a, DR11, Dre17b, Dre17c, DL80, DT91a, DT91b, DT75, Dun89a, Dun89b, Ell83, Ell85a, Ell87, Ell88, ED88, FNP579, Fal85a, FM96, Fur14, Fel87, FNSS92, FGFK10, Fl81, FS82, Fla83a, FPV98, Flo87, FPS13, FT12, FFG007, FMM90, FMM11, Fûr88, GSS01, GL73, GM91, GM94, Gathc96, GM98, GIM99]. Hashing [Gon80, GL82, GL88, GRZ93, GK76, GI77, GT80, Gra86, GPY94b, Gre95, Gri77, Gri79, GT93, GPA97, Gu75, GS76, Gu76a, Gu76b, GS78, Gu87, GG80, GH07, GZ14, GUR3, HB90a, HB92, Hac93, HSPZ08, HTO1, HHR14, HM96, HK12a, Ham02, Har71a, HCF95, He82, Hea72, HB89c, HB94, adeH90, adH93, Hef89, HST08, HNO84, HSM95, HKY12, HYH93, HY93, HCL78, HC87, HT88, HY86, HTY90, HSW88, IJ313, IK005, IH95, Jae92, Jae81, Jag91, Jai89, Jai92a, Jai92b, Jai93, Jan08, JV16, JP08, JTOT09, Jol97, JCK+18, Kab87, KGB18, KU88, KKN12, KV09, KGG12, Kaw85, Kaw15, Ke93, KR86b, KR86a, KY91, KMW08, KMW10, KZ84, Kn90, KP97, Kn91, KM86, Kon10, KM88a, KP94, Kri84, KS86, KS87a, KS87b, KS88b, KS89b, KR01, Kum89a, Kum90]. Hashing [Kut10, LW88, Lar78, Lar80a, Lar80b, Lar80c, Lar82b, Lar82c, Lar82d, Lar83, LR85, Lar85b, Lar85c, Lar88b, Larx, Leb87, LMC07, LK14, Lep98, LC88, CML07, Li15, LCLX19, LCM94, Lia95, LLI90, LLL11, LLLC17, LRY78, LR80Y, LR93, Lit91, Lit80, Lit78, Lit97b, Lit80, Lit81, Lit85, LZL88, LS89, LR18W9, LRL91, LTX16a, LTX2b, LC12, LZ16, LWZ+18, Lon83, LP991, LPP92, LM93c, LH03b, Lyo78a, Lyo83, MLHK17, Mac95, MD97, MWHC96, Man12,
MK11, MNT90, MB03, MBBS12, MV88, MV90, MV91b, MV90, MB90, MSSWP90, Men82, Men12, Mey93, MV01, MV02, Mit73, Mit09, Moh90, Moh93, MNP08, MWC12, Mu84a, Mu81, Mu84b, Mul85, MS88b, NSW08, NRW90, N83, Nyb96, OWZ14, OTHK11, OG94a, OG94b, OOB12, OOB17, OGY94b, Ott91, Ott84, Ott85a.

Hashing

[Ott88b, Ott88a, OT91, OR10, Ouk83, OS83a, OA89, OS83b, PR01, Pag86, PP08, PWY914, Pag18, Pal92, Pan05, PB80, Pap94, PV07, PT12a, PH73, Pea90, Pea91, Per73, Pes96, Pet13, PS93, PQ98, PQ99, PKW09, Pip79, Pit87, PM89, PVC94, PVC97, PV19, PT11b, PRM16, PKSB18, PS12, PACT09, PF85, PADHY93, PW94, Qi83, RT87a, Ram88b, RL89, RF91, RR92, Ram92, RL82, RT83, RSD84, RSD89a, RSD89b, RSD90, RSD92, Ram97, RGNMPM12, RL91, Reg81, Reg82, Reg88, RRS12, RH92, RH95, RW97, Rob86, Rog85, Rog99, RS75, RS77, Ros77, Rou89, RT87b, Ru82, Ru83, Ru85, SDR83a, SNBC98, SnC05, Sag84, SY11, Saa11, SG76a, Sav80, Sav82, Sch79a, SD90b, SD90a, Sch91b, Sch93a].

Hashing

[Sch81, SMZ18, SY91, SR89, SPW90, SB93, SSL+18, SY08, Sho96, SR91, SSS95, SDT75, Spr77, SHR90, SGB90, Sti94a, Stu85, Sun15, SHF+17, SA97, Tam82, Tam83, TK88, TC93, TL95, TZW91, TY015, THY+18, TI12, TW07, TK85, TZ12, TTY93, TZ94b, TV83, Tor84, TK07, Tro92, Tro95, Ts96, US09, UI70, UI72, VV84, VV85, VP96, VP98, Vit80b, Vit80c, Vit81b, Vit81a, Vit82b, Vit83, VC97, WG00, WPKK94, War86, WFHC92, Wee07, Wee12, WPS+12, WSZ+16, WFT12, WP01, WDP+12, WS03, Wi78, Wi80, Wi79, Wi71, Win90b, Win90a, Woe01, WR97, WZ93, Wu84, YDT83, YW90, Yao80, Yao85a, Yao85b, Yao91, Yas07, YB95, YTMJ06, YBQZ18, YGC+12, YD86a, ZPS90, ZPS93a, ZH18, ZHW19, dW83b, vdSdW74a, vMG12, AT18, ASM17, ASA+09, ADM+97, AI08, AI89].

Hashing

[AT90, BGG93, BL89, BGH+13, BBPV11, BD82, BGG94, BDVP14, BMQ98, Boo72, Bosxx, BT89, BCL10, Bur05, Bur82, BMLLC+19, CP91b, CP95a, CHKO12, CS93a, CW93, CJM919, CP95b, CV93a, CCL91, CHL07, CLI+14, CWZ10, CKKK09, CZL12, CR89, CP13, CO82a, CH97, Cze98, Dan94, DM03, DKM+88, DKM+91, DHW08, DS09b, D+92, DLH13, DDSW90b, DK12, DLN+18, Duc08, DM11, E17, EBD91, Fal86, FWG18, FSV09, FFS+13, FNS98, GLHL11, G92, GL90, GW94, GM77, GLJ11, GS98, GRF11, GPy94a, GZ99, Gui76c, Gup89, HB98b, HDM11, HKL08, HR93, HM93, HMW94, HL05, HC02, Hua85, HF+15, HFF+17, Hui90, IMR97, Ind13, IIL17, Jan05, JWM+18, JWBK11, Kan90, KYS95, KLL+97, KSB99, KU86, KL96, KR88, KK96, Kim99, KO7, KO80, KM10, KR19, Kost14].

Hashing

[KD92, KOU93, Kra94, KR06, KUM96, Kut06, KSC11, KSC12, LG96, Lar84, LNS11, LH06, LK16, Lev89, LK11, LOZ12, Lin96, LS96, LNS93, LYS+13, LLC14, LLA15, LWX98, LM88, LH04, LMPW15, LJW+17, ML15, MIGA18, MI94, MNT93, MLP07, MLP09, MV91a, MC90, MM10, MP16, Men17, Mil95, Mil98, MS12, MKSA98, Mol90a, Mol90b, MSV97, NL04, NMX19, OP03, OV94a, OS88, Pag81, PR04, PWY910, PJM88, PB90, PCM15, PT11a, PT13, PY88, Pou87, Pro94, QM98, QZD+18, Ram89a, RT89, RB91, RFB97, RZ97, RLH90, RAD15, Sab94, Sar11, SP12, SS99a, SS90a, Sch93b, ST93, SH92, SL88, SS16, Si02b, Sna87, Sta99, Sti91, Sti94b, Sun91, S13+13, TLZL16, T13, Tho00, Tho17, TK17, TME19, Tsa94, TLL07, TD93].
ZWT+14, ZPS93b, ZZLZ18, ZHC+13, Zob70a, Zob70b, ZHB06, BJJM94a, JHM02, KS88c, SV94a, SKC07, SA17, CV85.

Hashing-Based [LMC07]. HashMap [Oak98]. Hashnet [Fah80]. Hashtabellen [Kue82a, Kue82b]. Hashtable [Oak98, Bee83]. Hashstag [RTK12, KJG08]. Hashverfahrens [Dos78a]. Haskell [MRL+19]. HAVAL [WFLY04, ZPS90, ZPS93a, ZPS93b].

HAVA-128 [WFLY04]. Hawaii [Deb03, SC77]. HCC [Har97]. HDDs [HG+12]. Head [ACM91c]. Heap [FW76, FW77]. Heaps [CCA+12]. Heavy [TP15, Ind13]. Hebrew [Sch82a]. Hecke [CT96]. Hedge [Sho00b]. Height [Dev99, Reg81, THS97]. Heights [Jen76].


Hiding [MMMT09, MV01, Wec07, HR07]. Hierarchical [FWG18, PACT09, TK88, VLS87, GP08, VL97]. Hierarchy [Wil71, YL04]. High [ACM04, AS09, AEP18, AI06, ASB16, CT96, DGG+86, Dar92, DS97, Flo87, GM99, HSM95, IEE94e, KMM+06, KMV10, LCK11, LPT12, MCK99a, MCK99b, OT91, PSSR90, RSSD90, RW07, Rön07, She91, TK88, Tho13, TP15, WZS10, XLZC14, YNM89, YWH09, ZHW19, AI08, BCCL10, EVF06, HKL07, Inc81, MV91a, MAK+12, MA15, RFB97, SLC+07, Shi17, SIE09, SWQ+14, SXL08, TYSK10, TLLL07, XMLC11].

High-bandwidth [AS09].

High-Dimensional [AEP18, TYSK10].

High-error [Rön07]. High-Performance [DS97, Flo87, IEE94e, She91, ZWH19, Shi17].

High-Speed [KMM+06, KMV10, MCK99a, YNM89, MCK99b, RW07, EVF06, SLC+07, SXL08, TLLL07, XMLC11].

High-Throughput [LPT12, XLZC14, MAK+12]. HighEnd [LVD+11]. Higher [HKKK13, DH84].

higher-order [DH84]. Highly [BCS09, KHW91a, Mat93, PAK93, KHW91b, ZLL+07]. Highly-Associative [KHW91a, KHW91b]. Highly-Efficient [BCS09]. Hill [IEE88a]. Hilton [ACM91c, PD91, ICD88, ICD90, IEE90, IEE01].

Histogram [Gra93b, MNY81, PCK95, UHT97]. Histogram-Driven [Gra93b]. History [BG07, MNS07, NSW08, Reg82, NT01].

History-Independent [BG07, MSN07, NSW08]. Hitter [TP15]. hitters [Ind13]. HMAC [FIP02a, BCK96b, CY06, DRS12, MAK+12, RR08, Sta99].

Hmap [YTHC97]. Hoc [DPH08, JHL08, Cha12]. Hole [JHL08].

Holographic [BGF88]. Homepage [GCMG15]. Homomorphic [CFN18, KKN12, CZL12, MT16]. Honolulu [Deb03].

Hood [CLM85, Cel86, CLM86, DMV04, PV19].

Hop [RHM09, MA15]. Hopscotch [HST08].

hostile [LC95]. hot [KLL+97]. Hotel [ACM75b, ACM82, ACM83a, ACM83b, ACM85a, ACM87, ICD86, ICD87, IEE88a, IEE88d, IEE91, Kna89, Nav85].

Hough [HB99c, HB94]. House [IEE80a]. Houston [IEE76, IEE94a].

Houthalen [QV89].

Hover [EH12]. HTM [CCW+17]. HTML [UCFL08]. HTTP [DB12]. Human [Bor81, TCW+13]. humanities [Bai81].

Hungary [Rue93]. Hwang [KCL03]. Hyatt [Kna89].

Hybrid [BM89, BM90a, CBB05, Gra93a, Gra93b, Gra94a, KNT89, HGH+12, LLL11, Sch79a, TYZO15, PCV94, TT81].

Hybrid-Hash [BM89, BM90a]. Hypercube [OL91, OL92], hyperelliptic [FFS+13]. hypergraph [KKP+17]. Hypergraphs
I-cloth [TWL+18], I/O [MMC01, Vit85], IB [CZLC14], IBE [Zha07], IBM [Dit76, Dit76, MS02], IBM/360 [Dit76, Dit76]. ICALP [AGK+10, ADG+08, AMSM+09, ACJT07, CIM+05], ICICI [AFK90, KL09]. ICIT [AA86], Iceland [AGK+10, ADG+08], ICCX [IEE11a]. Icon [GG86b, GT93], iconic [WC94]. ID [ZJ09], ID-Based [ZJ09]. Idea [Gra94b, HL03, WPS+12], Ideal [Lia95]. Identification [MV01, ST66, CJP12, CJP15, GS94, IG94, LGW11, WWG+18]. Identifier [BSH12, Sev74]. Identifiers [DB12, Wil59]. Identifying [ASWD18]. Identity [CZLC12a, CZLC12b, CZLC14, KM92, LYX+19]. Identity-Based [CZLC12a, CZLC12b, CZLC14, LYX+19]. IEC [ISO04]. IEEE [ACM04, Co93, IEE89a, IEE89b, IEE92a, IEE92b, IEE97, IEE06, IEE07, IEE10, IEE11b, IEE13, MS05, IEE84, Yan10]. IEEE/ACM [ACM04]. IFIP [Gil77, Ros74]. Igniting [ACM03b]. II [BS91c, Sch93a, Van92, Vau92, Vau93]. III [Nol82b, OK80, Sed83a]. Illinois [ACM88b, ABM06, BL88, Lm93]. im [DS84a, Wal74]. Image [Ano95c, BFMP11, BS04a, BI12, DCM18, DHT+19, DR11, GPA97, GH07, HW08, LK10, LQZH14, Li15, LOON01, LC12, LYJ+13, MV02, OSR10, RGNNPM12, SB97, TWZW11, THY+18, US09, WP10, WDP+12, ZWH17, HC11, LMLC14, Mit12, SB95, TCW+13, TLZL16]. image-keyword [LMLC14]. Images [FLF11, MNY81, PKW09, RT81, Ssa01, WMB99, GG92, LMLC14]. Imaging [FHMU85]. Imai [PGV90a, PGV90a, PGV93b]. imbalance [WZ12]. immutable [SV15b]. Impact [GD87]. imperfect [NMS+08]. Implement [CL83]. Implementation [BCS99, BS04b, BGDW95, Dat88, DF89, DKO+84b, DKO+84c, DKO+84d, Dee82, Dev93, Dit76, DT75, EE86, EjKMP80, FW09, GG86b, GT93, Gro86, Har71a, Hek89, ISK+93, JD12, Kahl92, KMM+06, KU88, KM92, KR86b, KR86a, KKRJ07, KRJ09b, KTN92, L84, Lit79b, LPP92, NM02a, PRM16, SDR83a, She91, SK05, Ste82, TGL+97, TNKT92, VL87, BDP+12, BS94e, BW92, DS09a, DW08, DM11, EBD91, GN80, GJM02, Inc81, IL17, KU86, KKL+09, McD77, MZJ98, MFES04, Tai79, Dit76]. Implementations [GLG+02, Vit82b, WPPK94, WJZS10, DMP09, RL07]. Implemented [CMW83, ML+19]. Implementierungstechniken [Nec79]. Implementing [Bab79, Blu95, BjM14, GHJ+93, Gra86, Jun87, KHW91a, KHW91b, Lin96, Llo81, LB07, VL97]. Implications [Chr84, CHS+18, RAD15]. Implicit [OS88, Kor08]. Impossibility [BCS99, HM12]. Improve [LBJ02, BM01]. Improved [Ari94, BvT13, BM68, Bi08, Brc91, CN08, DDS14, DL17, FB87, HSM95, HW88, JNPP14, KM86, Kut10, LW04, LJF19, KKM10, LH04, Man83, Mic02, Mul72, NSS+06, PS12, Rad92, RP95, SS00, SD95, TK17, UIY10, WM19, GM77, Mau68, War14, ZW05]. Improvement [CH94, Fel87, RGNNPM12]. Improvements [CTZD11, Lev00, Nam86]. Improving [ATAKS07, AVZ11, BDS88, CHY93, CHY97, CAGM07, Cla77, DB12, GCMG15, JHL+15, MS12, RT87b, Sch82a, TCP+17, YWH09, ZZG05]. Impure [Dec82]. In-Bucket [TYZO15]. In-Memory [CCW+17, MZL+19, ZWH01]. In-Network [WBWV16]. Inaccessible [HHR+10]. Inadequacy [GY91]. Includes [FW76, FW77]. Including [DGV93, KL95]. Including [LK07]. Incompatibilities [KCF84]. Incorporating [CBA94].
Increased [PRM16, MSP12]. Increment [Ban77, Luc72, RKK14]. Incremental [BGG94, CT12, FRB11, GSC01, ISHY88, PW06, TWL+18, UIY10]. Incrementality [BM97]. incrementalization [SB07]. Indeed [Yas07]. Indentify [KCF84]. Independence [KW12, PPR09, PT16, Tho13, DT14, PPR07, PT10a]. Independent [BG07, CCJ91, DGD02, DTS75, Die96, Ind01, MNS07, NSW08, TZ12, FPS17, Han17, NT01]. Independently [AU79]. Index [BM89, BM90a, Buc82, Bur83b, Bur83c, DSS84a, GY94b, LC86a, Lom83, MZL+919, OL89, Otoo85b, Qui83, TY91, Wil79, ZHW19, Bur83a, Fr81, GY94a, HM03, LCH+14, McD77, SWQ+14]. Index-Based [OL89, TY91]. indexable [RRS07]. Indexed [Chu91, Chu92, KHT89, Mul72, Tay89, WM93, TK99].-indexed-hash [WM93]. Indexed-Sequential [Mul72]. Indexes [Les88, Omi89b, Pip94, FVS12]. Indexing [CJ86, Dumn56, KGG12, LI15, Llo81, Per73, SE89, Tor84, Wil79, WMB99, YWH09, CXLK19, CWC10, Fly92, LG96, MIGA18, MMG10]. Index [RR99]. Indiana [Van10]. Indianapolis [Van10]. Indicator [YD84]. indicators [Er86]. Indices [LR99, Val87]. Indifferentiability [CN08, LLG12, MPST16, BGKZ12, BDPV08, GLC08]. Indifferentiable [BGH12, CLNY06, FFS+13, FT12, BGH+13]. Indirect [Bal96, DGGG016, Joh61]. Indirectly [Ols69]. Individual [Jan05, Jan08, Vio05]. Induced [de 69]. industrial [PGV93c, ARA94]. Industry [ANS05]. Infeasibility [FS08]. Infinite [GHK91a, GHK91b, LIJ92, Bra09]. Influence [RTK12]. INFOCOM [IEE01, IEE92a]. Inform [Pro94]. informal [CK89]. Informatics [CHK06]. Informatik [Nol82a, Nol82b, OK80]. Information [PDJ91, BV89, BIP92, Can97, Cha84a, Dan13, DDSW90a, Ell82, FC87b, FH69, FCDH90, FCDH91, GY94b, ISO97, ISO04, KLT92, KM86, KM88a, LC06, LXL+19, MV01, MNS07, PGV93f, SKC07, SPSP16, SC77, Sta06b, Sun15, Vid90, WBWV16, XHZ+19, Yan10, YR87, YBQZ17, AFR90, DDSW90b, GY94a, KSC11, KSC12, SG72, SXLL08, FNY92, FBY92, Gill77, Ros74]. Information-Based [SKC07, KSC11, KSC12]. Information-Centric [SPSP16, WBWV16]. Information-Theoretic [Sun15, SXLL08]. Informix [Ger95]. Infrastructure [MJ14]. Infrastructure-free [MJ14]. ingestion [CXLK19]. Ingres [Sne92]. inheritance [DMP09]. Inhibiting [AS+16]. Initial [vdP72]. Initiative [MO92a]. Injection [NCF11]. Inner [PWY+13]. Innesbook [IEE88b]. Innovation [ACM03b]. Innovative [OG94b]. Input [AB12, Sab94]. Insecurity [DOP05]. insensitive [CyWM91]. inserting [Gup89]. Insertion [FPS13, PS12, CV83a, Jan05, Kon93, PY88]. inside-out [AP11]. Insight [CQW08, IEE02]. Installation [LAKW07]. instance [FS08]. instantaneously [DV07]. Instantiated [RR08]. Institute [Ano93d]. Instruction [BOS11, SS83]. instrumentation [Ano83]. Integer [Ano86, Die96, MV90, MV91b, Woe01, Woe05]. integers [BCS89, Han17]. Integral [LJF19]. Integrated [DGKK12, PG17, NM02b]. integrating [ATAKS07]. Integrity [CLS12, Sch01b, Sch01a, Wil96]. Intel [JHL+15]. Intellectual [DGKK12, IEE88a]. Intelligence [Kak93, ARA94, LLC99]. Intelligent [IE11a, LJW+17]. intensify [HL12]. intensive [Shi17]. interim [Kos14]. inter-system [Kos14]. Interacting [LLW10]. Interaction [ZLY+12, Bor81]. Interactive [CBK83, Cer85, CBK85, Dam93, Dam94, Dos78b, GK94, GK95, HR14, KG95, MS09, OY94a, OY94b, Rad83, Wee07, RWSN07,
Interconnection [Fah80]. Interest [ACM82, DT87, OSL10]. interesting [VNC07]. Interface [Vit85, WGM88, Bor81]. Interfaces [DCW91]. interleaved [RH90]. Internal [GL82, GL88, ITP14, LC88, Wil59]. International [ACM81, IJW89, PDI91, ACM94b, ACM11, ACM12, AGK+10, ABB93, ABM06, AKF90, ARA94, VLD82, Ano89, Ano93c, AW89, AAC+01, A+90, AINOW11, AOV+99, AA86, Bais1, BD88, BDS88, BV89, BIP92, Bel00, BBD09b, BJZ94, BRW93, BL88, BF89, Br92, BW92, BD08, BJ93, CGO86, CLM89, Cop95b, DG96, DSS84, DZ07, DJRZ06, DJNR09, FNY92, FMA02, Fra04, Fre90, GM90, Go92, GSW98, HB93, HL91, IEE80a, IEE84, IE88b, ICD87, IE88a, IE88ed, ICD88, IE88eb, ICD90, ICD91, ICD93, IEE94a, IEE95, IER93, JB94, JY14, Ker75, Kua89, KLT92, Ku93, LC06, Lak96, Las87, LCK11, Lev95, Lie81, LS89, LT80, LSC91, Lom93, MK89, MS90, Mo92b, Nav85, Ng79, Pat90, PSM95, PV85, PK89, QG95, RK89, RNT90, ST83a, ST83b, SP90, Sho05, SW94b, SW94a, SC77]. International [St93, Sto92, Vau96, Vid90, WPY90, IWSS91, Yan10, Yoa78, Yt96, YR87, Yn92, Yn92, Yun02, vL94, vDHvH12, ADG+08, AMSM+09, ACJ9707, Bir07, CIM+05, Cop95a, Deb03, Go96, HKN07, HF13, Wie99, ICD86, IEE11a, Sch82a]. Internet [An95d, ATAKS07, HLC10, MCF17, McNo3, She06, SXL08, ZNPM16]. Internet-Draft [MCF17]. Internet-scale [ZNPM16]. Interpolation [Buc82, Bur83a, Bur83b, Bur83c, Wu84, FWG18]. Interpolation-Based [Buc82, Bur83b, Bur83c, Bur83a]. interpretation [Fly92, GrR08]. Interpreter [CA94, Gai82]. interprocessor [KK96]. Interrogating [HLC10]. Interrogating-Call [HLC10]. Intersection [PSZ18]. Interval [GY91, Lip02, BL89]. Intractable [IT93, IH95]. Introduction [Coh94, DK02, DK15, Fe150, Fox91, Har85, Hua82, RW97, TS76, TS84]. Invariance [TV84]. Invariant [SvE84]. Inversion [DK07]. inversions [Pat95]. Inverted [Les88, HC02, McD77]. IP [BLC12, BM01, HDMC09, IGA05, JL14, MPL09, RW07, SXL08]. IPSec [KMM+06]. IPv4 [PT12b]. IPv6 [PT12b]. Ireland [ABB93, IEE10]. Irreversible [ANS97]. ISA [HL91]. ISACA [ADJ91]. island [Rei88, IE07]. ISO/IEC [SO04]. Isolated [MM83]. Israel [Sch82a, BSD88]. Israeli [Coh94]. ISSAC [ACM94b, Lk96, Lev95, vDHvH12]. Issue [LG78]. Issues [MP90, LMS89, LG78, Yu92]. Italian [FFPV84]. Italy [AAC+01, AA86, ST83a, ST83b, Ano94, De95, IEE88d, IEE92a]. Item [WYD+18]. items [Bay73b, CH09]. Itemsets [BMLLC+19]. Iterated [Jon04, KKV12, HLM93, HXMW94, KHK10]. iterations [OS10]. Iterative [MV02, SXL16]. IV [Far93, Sil02a]. IWDM [BF89]. J [Sar80]. January [ACM91d, ACM91a, ACM91a, ACM05, ACM08a, Kar98, Mat09, SP90, Shm00, USE91]. Japan [IJW89, A+90, AINOW11, CGO86, Got83, IE88b, IER93, Mo92b, IE88ed, ICD90, LT85]. Java [Sun02, CHL07, LB02, NMI0, OKX+09, SB07, SSS05, Tym96]. JEqualityGen [GRF11]. JERIM [MJ08]. JERIM-320 [MJ08]. Jersey [Fre90, IE84]. Jersey/sponsored [IE84]. Jerusalem [BDS88, Sch82a]. Johnson [SG16]. Johnson-type [SG16]. Join [Ad88, AT91, BM89, BM90a, CS83a, CHY97, DG85a, DG85b, FP90b, Gra93a, Gra93b, Gra94a, Gra94b, Gra99, HR96,
Joint [NP91]. Joins [CLYY92, CLYY95, DG93, DG94, DNSS92, GBC98, Gra86, HCY94, HCY97, LR99, LR96b, NNA12, PCL93a, SC90b, SC90a, SC90c, WDYT91, YCRY93, AKN12, BAT013, BLP14, HLH13, JHL15, LCRY93, ML95, PCL93b].


June [ACM84a, ACM03a, ACM07, ACM11, ABM06, BDD88, BV99, BIP92, BP99, BL88, BF89, FMA02, Fre90, Van10, HF13, IEE05, LL08, LS89, MS89, NG97, Re88, SC82a, St092, Vau06, V194]. Just [Yas07]. JVM [SV15b]. k-ary [Gui76c]. Karlsruhe [HM08]. Karp [GBY90]. Karp-Rabin [GBY90]. Katapayadi [Ram97]. Katholieke [BBD09b]. KD [KHT89]. KD-Tree [KHT89]. KDL [PSR90]. KDL-RAM [PSR90]. Keccak [BDPV09, BDPV12, DDS14, LLA15, MS13, BDP12]. KEM [CZLC14]. Kent [Oxb86]. Kerkyra [Re88]. Kernel [CSSP15, Lev00, ZLY12]. Key [ANS97, ANS05, iA91, BD82, B079, Boo74, CS83b, CC87, CS87, CC91, CLC92, CTZD11, CY06, CG79, CS02, Dam87, DL12, Dos78a, EAA16, GG86a, Gni79, GG80, GYW19, HB89b, HB89a, HM12, IG77, Joh97, KM09, KV09, KR86b, KR86a, LLY99, LAKW07, LCML94, Lin63, LYD71, Lust73, MZL19, Men12, MW95, NTY12, PRRL15, RSSD89b, RSSD92, Rob86, RS80, SY11, SR63, SS05, Sta99, YLSZ19, Yao95, Yub82, ZQSH12, And88, BSNP96b, CL91, GL06, GBL94, LW04, LND08, LY72, ML94, Men17, NM02b, Oka88, SD5, Sar11, Shi17, ZCZ19].

Key-Exposure [CTZD11]. Key-Recovery [CY06]. Key-Sequential [HB89a, HB89b]. Key-to-Address [LYD71, Lum73, LR72]. Key-Value [PRRL15, Shi17]. Keyed [An095a, BSNP96a, KKRJ07, Gon95, Li95, SV06, FIP02a]. Keyed-Hash [KKRJ07, FIP02a]. Keying [BCK96a]. keypoints [MMG10]. Keys [Gon80, Gur73, JC88a, Joh61, KR01, LMJC07, LL87, Oto85a, PB80, Riv76, Riv78, SD78, She78, Yao85, CFN18, FP82, GM90, Wan05]. Keyword [WWZ09, LMLC14, ZLC18]. Keywords [Coh99]. Khafr [BS91c].

Kinetic [Rey14]. Kingdom [BJ94, ACM94b]. KLIPA [GT63]. Knapsack [CP91c, JG95, Pat94].


L [Sar80]. Label [LQH18]. labeling [TCW13, YSL05]. Lam [Wag00].
LaMansion [Nav85]. lamp [McN03].
Landau [SV06]. Landmark [NNA12].
Landmark-Join [NNA12]. Landsat [MNY81].
Language [Cer81, CKB85, CKB83a, CF92, Hug85, KV91, MV88, VV86, MSV87].

LCFR [Cer85]. LCFS [PVM97]. Leakage [NTY12, ZZM17]. Leakage-Resilience [NTY12]. Leakage-Resilient [ZZM17].
Lean [SV15b]. Learn [McC79].

Line [AS82, Bry84, FFGOG07, HO72, IABV15, Leb87, SS83, Tsa96, BBKN12, HHL10, KRRH84, RW73, Tsa94].
Line-Oriented [Bry84]. Line-Rate [ARH18]. Lightweight [AHMNP12, AHMNP13, BDM+12, BKL+11, HKY12].

Large [ABB93, VLD82, AW89, AAC+01, AOY+99, BD88, BH85, BCH87, BJZ94, BI12, CKB85, CML+13, CGO86, Chn90, Coh98, DSS84, DS09c, Dos78a, DTM91, FM91, Feo87, FHCD92a, FHUM85, GGY+19, GLL17, Gra92, Gra93c, Gri74, GSW98, HB89a, HB92, Hii78a, Hii78b, Ker75, KCR11, KRRH84, KK85, Kos14, LM95, Li15, LT80, LSC91, LY72, MSK96, Shi17, TBC+05, Yao78, YM89, Zha91]. Large-Grained [PAKR93].
Large-Scale [GGY+19, GLL17, Li15, MEK+14, SHF+17, YGC+12, CML+13, Kos14, SXLL08, FES09, Sh17, Zha91].

Large-Scale [GGY+19, GLL17, Li15, MEK+14, SHF+17, YGC+12, CML+13, Kos14, SXLL08, FES09, Sh17, Zha91].

Lazy [AH89, BJMM94b, BJMM94a, CF92, Hug85, KV91, MV88, VV86, MSV87].
[IABV15]. line/Off [HHL10]. Linear [Ald88, ADM+99, ATT98, Ano95a, AD11, BYSP98, Ban77, BK70, BGS96, BW98, CFP19, Cle84, CL09a, CM93, Dae95, Ell85a, Ell87, FPV98, HB89a, HB92, HH85, HYH93, HTY90, HSW88, Jak85, JV16, Kno88, Knu19, Kuu98, Kor08, KD92, Lar80b, Lar80c, Lar82b, Lar82c, Lar82d, Lar85b, Lar85c, Lar88b, Larxx, KKMS10, Lit79b, Lit80, Litxxa, Luc72, Lyo78a, MSSWP90, MY80, Moh90, Moh93, Mul81, Omi88, OGAB14, OT91, OSSa, OA89, OS83b, PPR07, PPR09, PT16, Pet13, PK87, PV97, RSD8, RSD85, RSSD89a, RS92, RLH91, Reg82, Rob86, RT87b, SDR83a, SPW90, TW91, TZ12, Toy93, VP96, VP98, WVT90, YD86a, Ald87, AD11, BJ07, Bon95, HB89b, HCF95, Jan05, LNS93, MBC00, MCM01, ML94, Omi89a, OP03, OSS8, PPT10a, RLH90, Sar13, SS16]. linear [TMB02, Vio05, ZL12]. Linear-density [KD92]. Linear-Time [WVT90, Kor08]. Linearizability [SDW14]. Linearization [BKMP09]. Linearizing [Oto88a]. Lingo [McC79]. Linguistics [Cer83]. link [BR75]. Linked [Fel87, Pal92, ZLLD18, ZKR08]. Linking [Bob75]. Linkless [CJC+09]. links [EVF06]. Linux [USE0a, Lev00, LACJ18]. Lisbon [CIM+05]. Lisp [LFP82, Hek89, Nam86, FH96, GST+82]. Lisp-Based [FH96]. List [McI82, Ter87]. Lists [BH86, HK87, LLLC89, Lyo79, MY79, Knu94, ST85, SS06]. literate [Sab94]. little [DMP06, PES*12]. Live [MZD+18]. Ljubljana [EF12]. LLE [TLZL16]. Load [HC13, IK92, KJC11, LRLW89, LRLH91, Omi91, RRS12, RK91, Top92, TP95, WL07, KL08, SX08, TLLL18, WZ12, WT90, XCCK09]. load-balanced [TL11L8]. Load-balancing [WL07, XCCK09]. Loading [vdP72]. Local [MD97, MNY81, MJT+02, PKW09, RT81, SY08, BGG12]. Locality [BT12b, CSSP15, CKPT19, Chi91, Chi93, Chi94, IMR97, KGB18, Kaw15, MZL+19, MNP08, OWZ14, OTKH11, Pag18, AT18, HAK+16, HFZ+15, HFF+17, LNS11, LWXS18, LJW+17, QZD+18, SP12, STS+13, SA17]. Locality-Aware [MZL+19]. Locality-Preserving [Chi91, Chi93, Chi94, IMR97]. Locality-Sensitive [BT12b, OWZ14, Pag18, HFF+15, HFF+17, QZD+18, STS+13, SA17]. Localizing [DD11, DJSN09]. Locally [KS88a, Oto88b]. Location [WL12]. Location-Based [WVT90]. Lock [AR16, NM10, ZLLD18, NK16, Pro18, ZL12, SS06]. Lock-Free [AR16, ZLLD18, NK16, Pro18, ZL12, SS06]. locks [ALS10]. Loftus [Hel94]. log [FHC89]. logarithm [Gib91]. Logarithms [vW94]. Logging [Moh90, Moh93]. Logic [AR16, BM87, BAN98, Cra85, IEE84, Las87, dKC94, BW92, DLM07, YIAS89]. Logical [CPP08]. Logs [SK99]. LOKI [BS91c, Knu92]. London [Ano93a]. Long [Mit12]. Longest [DKT06, Gon81, PT12b]. Look [CP91b, Sna87, AY14, CP91a]. look-up [AY14]. Lookup [CN07, HDMC09, Jai89, Jai92a, Jai92b, Jaixx, Pri71, She78, SWTX18, Tro06, YBQZ18, BLC12, HXLX13, Mad80, MSK96, MPL07, MPL09, MA15, PT12b, WTZ+13, WTN07, ZGG05]. Lookups [Pan05, BM01, IGA05]. Loss [ATS19, FC87b]. Lossy [PW08, Wee12]. Louisiana [ACM91e, ACM97a]. Louisville [Rie89]. Low [GI12, HMNB07, HGR07, Les88, LWY+18, PSSC17, TBC+05, ABO+17, BOY11, CZ14, HM03, MA15]. Low-area [ABO+17, BOY11]. Low-Cost [GI12, HMNB07]. Low-overhead [HGR07]. Lower [DKM+94, GadHW96, Gon77, MNP08, OWZ14, Yao83, DKM+88, DKM+91, Sun91, Sun93]. lowering [SSU+13]. LR [HC87]. LSH [AT18, AÖD19, CKM14, CK15, LCH+14, LJW+17, NZPM16]. LSH-Preserving [CK15]. Lucifer [BS91c]. Luxembourg [Bir07]. LXCloud [LACJ18]. LXCloud-
Lympocytic [SAsS01]. Lyra2 [ASBdS16].

M [Sar80]. MA [ACM84a, Ker75, Kil05, CP91b, ACM86a, CP91a]. MAC [HLL18a, PV95, P-O95, Pre97a, SRRL98, SRY99, Eun90]. Machine
[And88, CCJ91, DGG+86, DGS+90b, DGS+90a, GD87, GS+82, Hs83, KLadH93, KLM96, KTMo83a, KTMo83b, KTMo83c, Tan83, EBD91, Vak85, BM90b, KK96, RH92].

Machine-Independent [CCJ91].

Machinery [DT87]. Machines [BF89, adH93, Mey93, SD89b, Sch90b, SD90b, SD90a, TR02, CHS+18]. MACs [DL17, GO07, PV95, PvO95, Pre97b, Saa12]. Made [Cicc80b, PV07]. Madison [FMA02]. Magnetic [Wri83]. MAHT [CRdPHF12]. Main [AP93, CE95, CRdPHF12, DKO+84b, DKO+84c, DKO84a, KR91, KL87, KK85, Kum89a, LC86a, SPW90, Sha86, TP95, ZHZ+19, AKN12, AP92, BATÔ13, DKO+84d, JHL+15, Pro94].

Main-Memory [KR91, BATÔ13].

Maintaining [Woe06b]. Maintenance [Buc82, Bur83b, Bur83c, Oto85b, Bur83a]. Making [BR97, Cob94, Hel91, LT09, CCA+12]. Malicious [AAE+14]. malleable [BCFW09]. Malo [GQ95, QG95]. Malware [ASWD18]. Management [ACM75b, ACM81, ACM82, ABM06, BL88, B93, BC90, CLM89, DT87, EE86, Flo77, FMA02, GGY+19, GMJ90, Gho77, Gho86, ISK+93, KM09, LC86a, Lie81, McC79, MKF+16, Nav5, SW94b, SC77, Sto92, ZZ83, QZSH12, DAC+13, FNY92, FR94, HF13, SW94a, WM93]. Manager [Pro89].


Marching [ZRL+08].

Marina [ACM82]. markerless [JBWK11]. Markets [Mir17]. Markov [HL94]. Marseille [Ng79]. marshalling [LPSW03]. Maryland [ACM90, FNY92, JÁJ90]. Marz [Lut88]. Mass [Co93]. Massachusetts [BV89, IEE05, MS05]. Massive [SMZ18, HAKM15, LR14, Vito1, XCCK09]. Massively [AKN12, JÁJ90, MK93, RH92, YLB90, Yen91, CZL12, Fis87]. Massively-Parallel [MK93]. Master [LYX+19]. Match [AU79, Bur75b, Bur76b, Bur76c, Bur78, Bur79, CLD82, Chun90, Jag91, Mor85a, RLT83, RSD85, RSD90, RSD92, YD86a, AT18, CC88a, Fai88, Hua85, RSD89a, RSD92b, Rivi4a, SDR38b, YD86b]. Matches [Dav73, PRK98]. Matching [iA94, BH85, CFP19, CCH90, CG79, Gri79, Han90, HCKW90, HW08, KSSF86, KR81, KPS92, LLL17, RH92, RH95, TK07, ASM17, CL895, CW10, DKT06, DC94, GBY90, HC14, HW88, ISHY88, KP92, KS89a, Kim99, MHT+13, PT12b, Sch91a, TKT+89, TLLL07, TLLL09, XMLC11].


Mathematics [FH96, GK81, GK82, Knu74]. mathématique [LG78]. Matrices [ASW07]. Matrix [AN96, Atk75, BH90, vSDW74b, vSDW74a, BT90, CFYT94, JCC00].
Matsumoto [PGV93a, PGV90a, PGV93b].
Max-Poly [DSS17]. maxima [MI84].
Maximizing [KHK15]. Maximum [AHS92, GB10, KV91, MV88, Pet13, CKKK09].
Maximums [MNY81]. maxima [MI84].
Maximizing [KHK15]. Maximum [AHS92, GB10, KV91, MV88, Pet13, CKKK09].
Maximums [MNY81]. maxmin [AII89].
May [ACM75c, ACM75a, ACM76, ACM77b, ACM81, ACM84b, ACM86b, ACM88b, ACM89c, ACM90, ACM91e, ACM94c, ACM96, ACM97b, ACM98, ACM99, ACM02, ACM08b, ACM12, AFR90, ARA94, Bai01, Bor01, BJ93, Dam90a, Dam91, DT87, De 95, FIP93, GMJ90, GQ95, He94, IEE85b, IEE94a, KLT92, Lie81, LT85, Nav85, PGV93c, QG95, Rue93, SW94b, SW94a, Vau06]. McGill [CCC89]. MD [Fis87, IEE02, PvO95]. MD-x [PV95]. MD4 [Ano95a, WFLY04]. MD5 [WFLY04, WZJS10]. MDC [LS15]. MDC-2 [LS15]. MDS [TW07]. MDx [PV95, SRR9L98]. MDx-MAC [PV95]. Me [Lau06]. Mean [Bra84a, Bra85, Bra86]. Means [Bab79].
measure [Bac02]. Measurement [NS16, SL16, LMP*08, RW07, ACM94c]. measurements [KLSV12]. Measures [MY79]. Mechanism [DG02, KAM9a, Cha12, HHL04, JDF09, SF88]. Mechanisms [DF01, Sev74]. Media [LWZ*18, CBB05, ZO13]. media-streaming [CBB05]. Median [HSPZ08, She78]. Medical [FHMU85, GPA97]. Meet [Sas11]. Meet-in-the-Middle [Sas11]. Meeting [ACM84a]. Mega [TKT*89]. Mega-access [TKT*89]. Methods [Du86]. Mehrfachattribut [Stu82]. Mehrfachattribut-zugriffsverfahren [Stu82]. Mehrschluesselzugriff [Fri86]. Membership [BM99, DP08, HKLS12, Pag01]. MemGuard [CZ14]. memo [Hug85]. memo-functions [Hug85]. Mémoires [Lit77b, Lit79a]. Memories [DD15, KHW91a, MNS07, Sha86, vdBGLGL*16, CCHK08, CCA*12, Hui90, KHW91b, Koh80, Lin63, Rh90]. Memory [A93, ASbS16, AGM*11, BL*14, BC90, CRdPHF12, CCW*17, CadHS00, DG93, DG94, DKO*84b, DKO*84c, DKO84a, DHK*15, DadH92, DUM56, EK93, adH93, HNS84, JPO8, JCK*18, KHK15, KUS88, KladH93, KLM96, KR91, KL87, KK85, KUM89, LC86a, LTS90, MZL*19, MLxx, Mey93, Omi91, PSSC17, Pan05, PG65, PS12, PGV90b, RSK17, RL74, SPW90, TR02, TP95, Vit81a, WIL71, Woe06b, WRI83, YBQZ18, ZH18, ZHZ*19, AS09, AKN12, AP92, BAT013, Bor84, CJS19, CZ14, DKO*84d, Don91, GLJ11, HCM11, HKL04, JHL*15, KUS68, KFG15, MBK00, MSSL93, PGV93g, Pro94, Shi17, SG72, SV15a, TKT*89, Vit01, XLC14, YIAS89, ZHW01]. Memory-Contention [DG39, DG94]. Memory-Efficient [YBQZ18, BL*14, SHI17, XLC14]. mer [HC14]. Merge [Gra94b, Gra99, AKN12]. Merge-Join [Gra99]. merging [SST*13]. Merkle [Bak09, CDMP05, GB17, LRY*15, Mir01, MF604]. Merkle-Damgård [Mir01]. Mesh [CRR18]. Mesh-to-Mesh [CRR18]. Message [AYZ11, BCK96a, BCK96b, EPR99, FIP02a, HK12a, KKRJ07, MRW99, NCFK11, RWSN07, Rog95, Rog99, Sho06, TC83, Tsy92a, Tsy92b, WS03, Yas07, GKL12b, Kra95, MS09, Sta99, SV06]. Metabase [KP81]. Metadata [GGY*19, SWTX18]. MetaFlow [SWTX18]. Metagenomic [PKSB18]. Method [AA79b, AA79a, Ari68, Bat75, Bel70, Bel72, Bel81, CS91, CC87, CLC92, CPP08, SLCS12, Cie86a, DOS78a, DT75, FNPS79, HD72, JO80, JAE81, Joh61, KR86b, KR86a, KNT89, KOR90, KF79, KRJ*80, Lam70, LK84, LPT12, LL86, LL87, Mal77, MNS07, MIE03, Moh90, Moh93, Mu72, NKT88, NIS83, PG95, Per73, Ram92, RJK79, RT87b, SD85, Sag84, SG76a, SS62, SR63]
41

MLxx, Omi91, RS92, SD89b, SD89c, SD89a, Sch90b, SD90b, SD90a, TNKT92, ZJM94b, SD90d, ZJM94a, ZJM94c.

Multiprocessors [Bor84, LTS90].

multiqueue [Has72].

Multiset [MSTA17, CP95a].

multisets [B¨ut86, NTW09, RRS07].

multisignature [Oka88].

Multispectral [DCM18].

Multiterm [Bur84, Bur82].

multithreaded [Cro98, MIGA18].

Multithreading [Cro98, MIGA18].

Multiuser [ZG90a, ZG90b].

Multivariate [AM07, OS10].

Multivariates [DY08].

Multiview [LWZ+18, SSL+18].

Munich [BRW93].

M¨unster [Dit76].

MuR [LRY+15].

MuR-DPA [LRY+15].

Mutual [CJP12, GI12, CJP15, FF90, SPLHCB14].

N [Sar80, FHC89, ISO97].

n-bit [ISO97].

Naehrig [FT12].

name [WTZ+13].

Named [WTZ+13].

Names [ABC+16, Dos78a].

Nancy [Jou85].

Nanowire [Rey14].

NASA [Fis87].

Nashville [ACM94c].

National [??69, Fis87, Oxb86, Ano83, IEE94b].

Native [SFA+19].

NATO [Ano95c].

Natural [Cer81, CKB83b, Har85, KCB81, LG78, YMI89, CKB83a].

naturel [LG78].

NC [IEE89].

Near [AI06, AI08, BT98, DD15, LQZH14, GMJ2, SB97, Yuv75].

Near-Associative [DD15].

Near-Duplicate [LQZH14].

Near-Optimal [AI06, AI08].

Near-perfect [BT89, SB97].

Nearest [AEP18, AI06, CL85, KBG18, MW09, PACT09, SY08, AI08, CW93, FH79, GMJ2, HZF+15, JDW+19, LCH+14, SWQ+14, TYSK10].

nearest-neighbor [FH79].

Nearly [HT01, FP82, MV91a].

nearly-constant [MV91a].

Necessary [IH95, Rus92, Rus93, Rus95].

Need [HR04].

Negative [DFD+07, SB95].

Negatives [Pag18].

Neighbor [AEP18, AI06, CL85, KBG18, MW09, PACT015, PACT09, SY08, AI08, CW93, FH79, GMJ2, HZF+15, JDW+19, LCH+14, SWQ+14, TYSK10].

Neighbor-sensitive [PCM15].

Neighborhood [DHL+94, DHL+02, D+92, SG72, ZLY+13].

neighbours [Yuv75].

Neither [CP91a, CP91b].

neophytes [Gre95].

Nested [HBL+10, FK89, MMC01, TMB02].

netflow [LDK12].

Netherlands [dBvL80, CP87, vL94, AW89].

Network [HCJC06, HLC10, JL14, KHK15, MK11, PLKS07, Ven86, WBV16, YBQZ18, AS09, CVR14, DFMR15, Die90, FYS12, KL08, RAL07, TLL10].

Networking [ACM04, LCK11, LZ16, WBV16, WTZ+13].

Networks [DK09, DPH08, Jai89, Jai92a, Jai92b, Jaixx, JLH08, Kak93, Kul84, LDY+16, MJBD11, PLKS07, SY94b, SPS16, SMS91, TGGF10, XHZ+19, ZQSH12, AK99, ADF12, BCCL10, Cha12, GBL94, LG13, LND08, MLP07, PES+12, SV95, SX08, TBC+05, WHS+07, WWG+18, YG10, ZBB+06, BB07, CT10].

neuer [BI87].

Neural [Kak93, WWG+18].

Nevada [IEE10, AFI69].

Next [DCW91, She91, CCA+12, CT10, KKP92].

Next-Generation [She91, CCA+12, KKP92].

Niagara [AFK90].

NiceHash [Nic17].

NIDS [KJC11, TK07].

NIPS [TK07].

Nineteenth [ACM08a, IEE95].

Ninth [ACM77a, ACM77b, ACM97b, Kar98, ICD93, ST83b].

NIPS [TK07].

NIST [Bou12, RRS06].

Nixdorf [afHMR93].

NJ [GMJ90].

NL [DSS17].

NMAC [CY06, RR08].

NMAC/HMAC [RR08].

No [AKS78, CP91a, KR01, CP91b, GBL94, Pro94, Sar80].

node [LG13, TSS97, WL07].

Nodes [BGF88, RAL07].

Non [BCFW09, Boo74, FNS88, KS86, KS87b, LT12, LS96, RWSN07, SD78, SA97, TSY98, ZH18, AY14, Ald87, CCA+12, ERS14, FP82, MLP07, MP16, PBB012, Sar15, SXL16, Lut88].

Non-biased [TSY98].

non-blocking [PBB012].

non-compressing [MP16].

non-cryptographic [AY14, ESR14].
One-access [Lar88b].
One-Hop [RHM09].
One-Pass [LMD+12].
One-Step [Dit76].
One-Time [LAKW07, Moh11, PWY+13, Par18].
One-Way [BCFW09, DGV93, GK08, HHR+10, JLH08, LP15, Roe94, Rui93, Sch91a, Sho00a, Tsu92a, Wei07, Win83, Win84, Yar07, ZY00, ZPS90, ZMI91, ZPS93a, CMR98, Gh91, HR07, HL03, IEE92a, KST99, KM10, LW04, Mer09a, MZI98, NY89, NY89a, Roe95, Sim98, SV18, STS+13, Tsa08, Tsa92b, YL04, ZW05, ZPS93b, HMNB07].

Optimality [Bol79, CLC92, JP08].
optimally [Woe06a].
Optimierungsfragen [Wal74].
Optimistic [GT16].
Optimization [ODB89, AR17, BG92, Kie85, Kin00, MXL+12, Mir17, MWC12, TV83, XNS+13, YNW+09, Yu82, DJRZ06, DJNR09, Loh89, MP90].
Optimized [ARH+18, CPR14, EP99, MZ+18, ZH18].
Optimizer [ML86].
Optimizing [DGGL16, LOY00, MBK00, PF88, SW91, SV15, WL12, TCW+13, WTN07].
Optimum [VC85, vdp72, vdp73, van73, Vit80a].
OR-parallel [Cra85].
Oracle [GHR99, LT12].
Oracles [Can97].
Order [FCDH90, FCDH91, GG86, HB92, HM12, HSW88, Oto88a, Ouk90, Rob86, Tam81, AKY13, BMLC+19, DH84, DLM07, HKK13].
Order-Preserving [GG86, Ouk83].
Ordered [AK74, CS83a, Cha84b, Cha84c, CS86, Cha86b, CC88b, MY79, MN90, SH92, SH94, SS06, JM902].
Ordering [Lyo78a, GM79, Sab94].
Orientability [FP10].
Orientability [HH85, Som99, TO03].
Orientation [BH93].
Oriented [BDPSNG97, Bry84, CS85c, CS85b, Cha85, Cha86a, CO82b, DCW91, ISK+93, JC88a, Kie85, LDM92, PV92, TL95, TR02, Tro95].
Organizations [CF89a, Sch97b, Sch98, Toy86, YD86].
Organized [CLL11].
Organizing [HH85, Som99, TO03].
Optimal [GT16].
Optimal [AU79, A106, Bat80, Bat82, BR94, BBP88, BW98, BMRVo2, CC88a, Cha84a, CHM92a, CHM92b, DA93, FC87b, FP98b, HR93, HRL13, Jag91, KK12, KK18, KP92, Kri84, LL92, LCML94, Lip02, MLP07, Men12, Men17, Mor83a, OWZ14, PP08, RR92, RIV76, Riv78, Tro06, Yao85a, Yao85b, Yao95, YCR93, YSEL09, Al08, GSS01, LCY93].
Optimality [Bol79, CLC92, JP08].
optimally [Woe06a].
Optimierungsfragen [Wal74].
Optimistic [GT16].
Optimization [ODB89, AR17, BG92, Kie85, Kin00, MXL+12, Mir17, MWC12, TV83, XNS+13, YNW+09, Yu82, DJRZ06, DJNR09, Loh89, MP90].
Optimized [ARH+18, CPR14, EP99, MZ+18, ZH18].
Optimizer [ML86].
Optimizing [DGGL16, LOY00, MBK00, PF88, SW91, SV15, WL12, TCW+13, WTN07].
Optimum [VC85, vdp72, vdp73, van73, Vit80a].
OR-parallel [Cra85].
Oracle [GHR99, LT12].
Oracles [Can97].
Order [FCDH90, FCDH91, GG86, HB92, HM12, HSW88, Oto88a, Ouk90, Rob86, Tam81, AKY13, BMLC+19, DH84, DLM07, HKK13].
Order-Preserving [GG86, Ouk83].
Ordered [AK74, CS83a, Cha84b, Cha84c, CS86, Cha86b, CC88b, MY79, MN90, SH92, SH94, SS06, JM902].
Ordering [Lyo78a, GM79, Sab94].
Orientability [FP10].
Orientability [HH85, Som99, TO03].
Orientation [BH93].
Oriented [BDPSNG97, Bry84, CS85c, CS85b, Cha85, Cha86a, CO82b, DCW91, ISK+93, JC88a, Kie85, LDM92, PV92, TL95, TR02, Tro95].
CL86, CW91, CW93, CKW93, DMP09, DM11, Wan05]. Orlando
[ACM91d, ACM91a, Kna89]. Orleans
[ACM91c, ACM97a, IE474]. Orthogonal
[BGS96, LCML94, CCL91, Wil78, Wil85a]. Oscar
[ACM76, ACM97a, ACM97b, ACM97c, ACM97d]. Outbreak
[FNP09]. Orleans
[ACM91e, ACM97a, IE474]. Outfit
[Nic17]. Output
[Mit12, NIS15, ISO97, ISO04, MBBS12, Sed83a, ADG08, AMSM09, KMV10, Wil03]. Oxford
[ACM94b, ACM94c]. Parallel
[Rck15]. Paradox
[RL89, BRW93, BRW94]. P-Paradiseos
[JWM+99, CL91, And88, Ano93d, AEMR09, AR17, AT91, BFG+95, BH91, Bis12, BRW93, Bor84, Bul81, CDh89, CDm90, Cil91, Chi94, CT96, DSN89, DA93, DS97, GST90, GM94, GM98, GI77, Gra94c, GB99, GB99, HNS84, HD97, HCY97, IG77, Jaj90, Ku86, Ku88, KR91, KJC11, KR19, KO90, KT92, LLLC17, LPP91, LPP92, MD97, MLD94, MV90, MV91, Mat93, MK93, Mil85, MK93, NM02a, PAKR93, Pap94, PK98, PRM16, PPS90, PW94, Rag93, Ram89b, RS92, RHE92, RK91, RT90, RK91, SS01, SDD9c, SD91a, SV94a, SPW90, SB93, SK98, SA17, TR02, TK85, TOP92, TP95, TNK90, WPY90, WPK94, WS93, WYT93, Woo89, Wu85, IWS91, YLB90, Yen91, YB95, ZHW17, Z093, dKC94, vW94, vDVL12, ALS10, AKN12, ASA09]. Parallel
[CZL12, CyW91, Cra85, Don91, FH91, FRR19, Fis87, GLHL11, HK95, KP92, MV91a, MP90, Mol90a, OT89, PCK95, RLM87, SK88, SD94d, STS13, TL93, UHT95, War14, adHMR93, KL95]. parallel-DM
[KL95]. parallelism
[ASM17, Ged14, MMS94]. parallelizable
[MP16]. Parallelizing
[IK12b, WDYT91]. Parameter
[CC88b, GB10]. parameterization
[SS98b]. Parameters
[HRBS13, HYLT99]. parazoa
[AMP12]. PARBASE
[AMP12]. PARBASE-90
[RT90]. Paris
[LS89, Coh94]. Parities
[Val15]. Park
[IEE84, IEE89, Jaj90]. PARLE
[BRW93]. Parser
[HC87]. parsing
[Ta17]. Part
[MNS97, Bor81, ISO97, ISO04, MBBS12, Sed83a, ADG+08, AMSM+09, KMV10, Wil03]. Part-Graph
[MBBS12]. Partial
[AU79, Bur75b, Bur76b, Bur76c, Bur78, Bur79, Can97, CLD82, Chun90, CY06, Cor02,
Jag91, Lar80b, Lar80c, Lar82b, Lar82c, Lar82d, Larxx, LK10, Mor83a, PF88, RLT83, RSD85, RSSD89a, RSSD89b, RSSD90, RSSD92, TGGF10, YD86a, CC88a, Fal88, Hua85, Riv74a, SDR83b, SNW06, YD86b.

Partial-Domain [Cor02]. Partial-Match
[AU79, Bur75b, Bur76b, Bur78, Bur79, Jag91, RLT83, RSSD90, RSSD92, RSSD89a, RSSD92b, Hua85, Riv74a].

Partial-Relation [PF88]. Partially
[PCL93a, PCL93b, particles [Lia95].

Partial-Relation [PF88]. Partially
[PCL93a, PCL93b, particles [Lia95].

Partial-Relation [PF88]. Partially
[PCL93a, PCL93b, particles [Lia95].

Partial-Relation [PF88]. Partially
[PCL93a, PCL93b, particles [Lia95].

Partition [LKI10, LC96, WZ12].

Partitioned [Ger86a, LR96a, NKT88, SW91, Ger86b, HKL07, MZK12].

Partitioning [Bre91, Ged14, PFM+09, SBS16, WBWV16, ZRT91, vM39, CKKK09, CKKW00, EH17, HAK+16, Kim99, LL13, PCK95, SKD15, UHT95, AP11]. partitions [DKRT15].

Partly [OTKH11]. PASCAL
[CCF04, JXY07, KLSY07, KS12, LMSM09, SM02, LMSM12, WHS+07].

Peer-To-Peer [PFM+09, CCF04, JXY07, KS12, LMSM09, SM02, LMSM12, WHS+07].

Peers [RBM11]. Pennsylvania
[ACM76, LFP82, ACM96, HB93, IEE92b].

Pentium [BGV96, Bosxx]. Peoples
[Ano83]. peptides [MIGA18].

Perceptual
[DCM18, LC12, MV01, MV02, NS16a, RGNMPM12, SB14, THY+18, WDP+12].

Perfect [AN96, AA79b, AA79a, Ari94, BHIMM12, BBD+82, BBD+86, BS94b, BS94a, BW98, Bla00, Bla95, BPZ07, BT90, BT94a, BT94b, BH86, Bur92, BC90, Cer81, CKB83b, CB83, Cer85, CKB85, CKB85, Cer87, Cer88, CLD82, CS83a, Cha84b, Cha84c, CS85c, CS85b, Cha85, CS86, CL86, Cha86b, CC88b, CC91, CW91, CL05, CLC06, CT12, CJC+09, CRS83b, Cie80a, Cie80b, CO82b, CHK85, CHM92a, CHM92b, CM93, CHM97, Dat88, DM94, DH01, Dic07, DJS80, DJS83, Duc08, DM11, FM96, FCHD88, FCHD89, FCHD90, FCHD91, FCH92, FCHD92a, FK84, FH15, Get01, GKH91a, GKH91b, HTO1, JOT9, Jae81, JD12, KH84, KM86, KM88a, KCB81, Kra82, KP94, LR85, LH06, LLLC17, Mai92, MWCH92, MWCH96, Meh82, NRW90, Nil94, OG94a, Og94b, Pag99, PV92, PG95, Pes96].

Perfectly
[CMR98]. Performance
[ACM04, AP93, ANS09, BM89, BM90a,
Bre91, Bur83c, CL85, CS87, CS87, Chr84, CH94, DGG+86, DR92, DadH92, DS97, Don91, ESR114, FC87a, Fla81, Fla83a, Flo87, GD87, Gra88, Gra89, Gra93a, Gra93b, Gri74, Hac93, HSBMB91, HC13, IEE94c, IG77, KS89a, Kha95, KK96, KTN92, Kue82b, Kum90, Lar80c, Lar81, Lar82a, Lar82b, Lar85c, LCK11, LCLX19, LLL09, LMSF89, Lit84, Lit55, Lom88, LYD71, Lum73, Lya03, MXL+12, Mac95, ML86, ML94, MY79, Mii85, Mii85, NM02a, NP99, Omi91, Pal92, PB80, Pro94, Ram89b, RZ97, RSSD90, RLH90, RLH91, Roe94, Roe95, RT87b, SD85, SD89c, SD89a, Sch79b, SC90b, SC90a, SC90c, She91, TNKT92, TMB02, Tyn96, Vit83, Yen91, YB95, BMQ98, BW89, CAGM07, CF89b, HM03, Kou93, LL15, LY72.

**performance** [MRL+19, MA15, RFB97, SS89a, SD89d, Sh17, Sie89, VBW94, Vit80a, WL07, WTN07, XCCK09, Yu18, ZHW19].

**Performances** [Mek83].

**Performed** [Wil71].

**Performing** [FP89b].

**Period** [AC74, Eck74b].

**Periodicity** [HG77].

**Permutation** [DLH09, HSR+01, NIS15, PHG12, Sch01a, CFYT94, DLH13, HK95, KST99, LOZ12, LMPW15].

**Permutation-Based** [NIS15, PHG12, KST99].

**Permutations** [ARH+18, JNPP14, MP12, Wee07, BK88].

**Persisten** [NT01].

**Persistent** [KM92, ZHW19, CCA+12].

**person** [WWG+18].

**Personal** [Rad83].

**Personalized** [WYD+18].

**Perspective** [ACM85a, CSSP15, Will00, LWXS18, Mit17].

**Pert** [Kul84].

**Pertaining** [Wri83].

**Perugia** [De95].

**Petersburg** [Vau96].

**Persson** [Kno88].

**PGV** [BRS02, BRSS10].

**Phase** [DHL+15, PACT09].

**PHash** [Shi17].

**Phi** [JHL+15].

**Philadelphia** [ACM89b, ACM90a, ACM90b].

**Phoenix** [ACM03b].

**Photomosaic** [US09].

**PHP** [GSL17].

**Phrase** [JD12].

**Phylogenetic** [BT12b].

**Physical** [BG80, Bat81, BG82, DT91b, DGKK12].

**Picture** [BS94b, BS94c].

**Pilfered** [Nic17].

**pipe** [MPST16].

**Pipeline** [PRM16].

**Pipelined** [CLYY95].

**Pipelining** [CLYY92, He87, HSY94, MD05, MS88a, RS92, YCR93, ISHY88, LCRY93, RLM87, XLZC14].

**pipelines** [AS90, RKLC+11].

**Pipelining** [CLYY95].

**Pittsburgh** [LFP82, ACM04, IEE92b].

**PKC'98** [HPC02, HKKK10].

**PKC98-Hash** [HKKK10].

**PKE** [HL18a, Zha07].

**PKI** [YY01].

**Place** [Dos78a, IEE84].

**Placement** [MEK+14, PRRR15, BPT10].

**Plagiarism** [CH12].

**Plains** [IEE88c].

**Plural** [AI89].

**Platform** [LMD+12, Sun02, TCP+17, FN09, MN99, QZD+18, ZL+07].

**Platforms** [AS16, NMX19].

**Play** [But17].

**playing** [Zob70a, Zob70b].

**PLILP** [BW92].

**PLOP** [KS88b, KS88c].

**PLOP-Hashing** [KS88c, KS88b].

**PODS** [HL13, ACM88a, ACM89a].

**PODS'08** [LL08].

**PODS'10** [Van10].

**PODS'13** [HF13].

**Point** [BL89, TK17].

**Pointer** [LDM92, SC90b, SC90a, SC90c, SVCC01].

**Pointer-Based** [SC90b, SC90a, SC90c, LDM92].

**Points** [AT93, Bat80, Bat82, AHI89, AT90].

**Poisson** [Pob86, PVM94].

**Poland** [ACJT07, Win78].

**polls** [Jan05].

**Policy** [GGY+19, DG96].

**Politecnica** [CTC90].

**Polling** [LXL+19].

**Polling-Based** [LXL+19].

**Poly** [DS17].

**polylog** [DLM07].

**Polynomial** [DGMP92, FS82, Saa85a, San76, WSSO12, Win90b, Bis12, GPGO16, Kak83].

**Polynomial-Advantage** [WSSO12].

**Polynomials** [DY08, OS10, Sar11].

**PolyR** [KR01].

**Pools** [Woo09].

**POPL** [ACM91a].

**Popular** [CLNY06, RR08].

**Portable** [Hek89].

**Portland** [ACM85b, CLM89, IEE95a, IEE95b].

**Portugal** [CIM+05].

**positive** [CVR14].

**Post** [BBD09b, MKAA17, BDD09b, BD80].

**Post-Quantum** [BBD09b, MKAA17, BD08, BDD09b].

**Postal** [Dos78a].

**Postortsnamen** [Dos78a].

**Postprocessing** [Dos78a].
Pour [Kar82]. Power

Powerful [Tho17]. PQCrypto [BD08].

Practical [Dun89a, FP10, HD72, MK11, MMMT09, PT12a, PGV90b, ACP10, Ano93c, DKRT16, GP08, KM10, PT11a, PGV93g, Sch82b].

Practitioner [SD76]. PRAM [GM91, KLadH93, KLM96, Kel93, Kel96, Lep98]. Pramanik [Pro94].

primary [ML94]. Prime [Bat75, HM12, Muc04, OG94a, WS03, Lar84].

Primes [Die96, ACP10]. Practical [AS82, BR97, BHH +15, CHK85, DNSS92, DDS14, EMM07, FHCD92b, GRS05, GLLl17, HM96, IP11, LT09, Ram89b, ZZ83, JCG95, LWXS18, Sil02b, SXLl08].

Practically [TT82]. Practice [KGJØ18, Mir17, Ram88b, BBPV11, RZ97, Sta06b, KKP92].

Predicates [RS92]. Predicator [KS12]. Predicate [Han90, HCKW90, VV84].

predictability [LBJ02]. Prediction [TW07, DFMR15]. Predictive [DCW91, RT87a]. Predictors [DGD02, NI83, TT86].

Predictive [DCW91, RT87a]. Prediction [TW07, DFMR15]. Predictive [DCW91, RT87a]. Predictors [DGD02, NI83, TT86].

preimage [Mit12]. Pre-image [Mit12]. PRECI [BD82, DNV81]. precise [DK12]. Precision [LOON01].

Precomputation [AS16]. Predecessor [KS12]. Predicate [Han90, HCKW90, VV84].


Presence [RK91, WYD91]. Presented [AM75c, ACM76, ACM77b, LFP82, DBGV93, ACM79, ACM91d]. preservation [DL06]. Preserve

[Knu77, RS12, Vit81b, Vit82a]. Preserving [BR06, BJL16, BHKN13, BHKN19, CK12, CK15, Chi91, Chi93, Chi94, DHL+94, DHL+02, FL08, FCDH90, FCDH91, GG86a, GZX14, HB92, HSW88, LQH18, Ot088a, Rob86, Tam81, D+92, IMRV97, Ouk83, QZD+18, RW07, SG72, Zha19].

pretty [Tho00]. Prevention [JLH08]. PRF [AB12].

primary [ML94]. Prime [Bat75, HM12, Muc04, OG94a, WS03, Lar84].

Primes [Die96, ACP10]. Primitive [Kil01, Muc04]. primitives [MP16, RAL07].

Principal [Cha88, MW09, SA97, US09]. Principle [Dam90b, FDL86, Gib90].

Principles [ACM82, ACM83a, ACM83b, ACM85b, ACM86a, ACM87, ACM88a, ACM89b, ACM91d, ACM91a, DK02, DK15, Van10, HF13, LL08, Pre94a, UIl82, Wal88, Zhe90, KKP92, Sta06b]. Print [Cip93].

Priority [AFK83, AFK84, RT87b, GJM02]. Privacy [An95d, BJL16, BBR88, GZX14, ZXL19, QZD+18]. Privacy-Preserving [BJL16, GZX14, QZD+18]. Private [PSZ18].

Probabilistic

[Bla00, BK07b, Flas83b, FM85, Pit87, Sch91a, Tsa96, WVT90, Yao83, CMR98, SD95].

Probabilities

[Ald88, PRK98, vM39, Ald87]. Probability [Fel50, Gon80, NY85, Ram88a, MV91a, NN90, Ni94, Ram87, Sar11].

Probe [AA79b, AA79a, Gon81, ORT91, Spr77, LJW+17, Mil99, Pag01, SS88, SS90b, Sun93].

Probes [Lyo85, Ros06, Ros07]. Probing [Ald88, BBS90, Cle84, FPV98, JV16, Kmn98, Lar85b, Lyr87a, MY85, PPR09, PT16, Pet13, PK87, PV97, PV99, SL16, TZ12, VP96, VP98, Ald87, Jan05, LJW+17, PPR07, PT10a, Ram89a, Vio05].

Problem [DSS17, DM90, GB10, HP63, Hop68b, Mit73, NAK+15, Val15, BC06, DHKP97, HCF95, LP04, Loh89, Mon19, Sun91, Sun93].

Problem-based [BC06]. Problems [DJRZ06, FHMU85, Yub82, ZO93, AMP15, CP95a, CO82a, JWM+18, WZ12].

Proceedings [ACM84a, ACM88a, ACM89a, ACM91a, ACM94b, ACM04, ACM12, Ano85a, ODB89].
Proceedings [Dav91, DT87, DSZ07, EF12, Fei91, FMA02, Fra04, Fre90, GMJ90, Gol94, GSW90, HB93, He94, IEE88a, IEE85b, ICD88, ICD90, IEE90, IEE91b, IEE91a, ICD91, IEE92b, IEE92a, ICD93, IEE93, IEE94c, IEE95, IEE01, IEE05, IEE07, IEE10, IEE11b, IEE13, ILM93, Joy03, Kar98, Ker75, Kna89, Kui92, LC06, Las87, LLO8, LT85, LS89, Lom93, Mat09, MK89, MV91c, MS05, Nav85, Oxb86, Pat90, PK93, QV89, RRR90, RK98, Rov90, Rue93, ACM77a, S293, Slm00, SW94b, SC77, ST93, St92, USE92, USE91, USE00a, USE00b, Vau06, Vid90, WPY90, IWS891, Yan10, Yun02, AGK*10, AFK90, ACJT07, Bel00, BZ90, BW92, CIM*05, Cop95b, Dan90a, Dan91, DJRZ06, DJNR09, FS99, Go96, HM08, adHMR93, HKNW07, IEE11a, JB94, Ki90, Lut88, QG95, Rei88, SP90, Sho05, SM08].

Proceedings/Ninth [ICD93].
Proceedings/Seven [ICD93].
Proceedings/Third [ICD87].
Process [FS82, Pro94].
Processes [WB90].
Processing [APV07, BG92, CCW+17, Dan13, Eld84, GST90, Ger86a, Ger86b, Gil77, GL17, Gra92, Gra94c, HB93, Har85, HCJC06, IABV15, KMW11, LCL17, LC96, MK89, MS86a, Omi99, PAPV08, Pip94, PK93, RK98, Sac96, Sch90b, SD90b, SD90a, Sha86, So93, SPB88, Spe92, Tha88, Toy86, WPY90, IWS891, YkW83, BZZ12, Bra88, CP95a, Ckw00, Ged14, GC90, HLH13, Kan91, Kan93, LLC89, RAD15, Ros74, Sab94, SK89, SW90, WLL10, YMI99, Yu92].

Processor [Adi88, KL87, SM87, YCRY93, ISH+91, LCY93, TLLL07, YNW+09].

Processors [Pap94, Ros06, Ros07, Wil95, JHL+15, KL08, KW94, TLLL09, YIAS98].

Producing [DV07, RVPV02, Win83].

Product [Du86, YGC+12, OS14].

Productive [Bor81].

Profile [SSU+13].

Profile-guided [SSU+13], profiling [VNC07].

Program [Hil88, Knu84, Mai83, Mai92, Meh82, SS80, BZZ12].

Programmable [HM12, HK12b, CFN18, LT12].

Programmer [Cro98].

Programmiersprache [Dit76].

Programming [LFP82, ACM91d, DBvL80, BM87, BGS96, Dit76, Dun89a, Ers58a, Ers58b, GG86b, Har71b, Har73, IEE84, Jou85, Knu73, Knu75, Kui92, LII92, Mau68, NS82, Pat90, Ruc15, SSS05, dKC94, ACM91a, AGK*10, ADG+08, ALS10, AMSM+09, ACJT07, BW92, CIM*05, DLH*79, Er86, Sab94, TMW10, YIAS98, BW92, LLO8].

Programs [AR16, Hea72, PAKR93, Ers58b, FDL86, MP90, NMS+08], progress [Wol93].

progressive [XMLC11].

Progressively [DVS+14].

Project [DGS+90b, DGS+90a, Tro92, NM02b].

Projecting [AT93, AT90].

Projection [Bur78, SPW90, AS89].

Projective [ACP09, HK12a, KVO9, Wee12, FH15].

PROLOG [CJ86, Bor84, Cobl84].

Proof [CZLC12a, CZLC14, Cor02, LYY+18, LYX+19, LT12, SDW14, ZZM17, DLM07,
proofing [CHL07].

Proofs [CZLC12b, CS02, KK12, KK18, NTY12, WG00, Wee11, Li10]. Propagation [DSSW90a, CML+13, DSSW90b].

Properties [Bal05, Bol79, CS83b, CLC92, Lit85, RS12, TS85, WS76, ZMI91, GW94].

Property [BR06, DGKK12, FLP14, Rja12, SRY99, Ter87, FL08, FLP08].

Proposal [LLJ15]. Proposed [CP91c, HPC02]. Protecting [LMJC07]. Protection [DF01, DGKK12].

Protein [LLW10, ZLY+12]. Protein-Protein [ZLY+12]. Protocol [Ano95a, BT12a, Dam93, GI12, HMNB07, HCPLSB12, HLC10, JRPK07, JK11, OVY94b, TY03, YLSZ19, CB15, Dam94, GB17, LW04, Ovy94a, SPLHC14, CJ12, JL14].

Protocols [LLL09, SDK91, KLL+97].

Provably [ANS97, ANS05, BBR88, CLP13, Cip93, CS02, Dam87, HR04, LYX+19, LRY+15, NTY12, ZCZQ19, CFN18, LW17, Oka88].

Public [Nat95, FIP93, NIS93].

Query [JY14]. Quadratic [Ack74, AC74, Bat75, Bel70, Bel72, Bel83, BI87, Bur75a, Day70, Eck74b, HD72, Lam70, Rad70, NH74].

Quadratic [BI87]. Quality [THY+18, YWH09, GW94].

quality-size [GW94]. Quantiﬁcation [GC95]. Quantile [KS87b, KS89b].

Quantitative [Hea82]. quantities [Bee83]. Quantization [YWH09, YGC+12].

Quantum [BBD09b, BHT97, BHT98, MKAA17, BD08, BBD09b]. Quark [JY14].

Quasi-Bicliques [LLW10]. Quasi-perfect [Zee98].

Quasi-Pipelined [MD05]. Quaternary [KM96]. Qu´ebec [ACM02]. Queensland [SZ93].

Queries [APV07, Bur75b, CLD82, Cha84a, CHY97, DHL+94, DHL+02, GST90, GW94].

Quantization [YWH09, YGC+12].

Quasi-Pipelined [MD05]. Quaternary [KM96]. Qu´ebec [ACM02]. Queensland [SZ93].

Quotient [CN07, LOON01, TT10, AK09, NDMR08].

Questions [Mit09]. Queue [KV91, MV88, KM07]. queueing [MSV87].

Queue [AFK83, AFK84, Woo89, GMJ02]. quick [FDL86]. QuikFind [Cha91].

Puerto [IEE91b]. purely [SV18]. Purpose [Chi91, Chi94, Sch91a]. putting [Col93].

Pyramid [HHT+13].

public/subscribe [MJ14]. Puerto [IEE91b].

Putting [Col93].

Putty [KKT91, LJJ19, WWY14]. R* [ML86].

r [KKT91, LJJ19, WWY14]. R* [ML86].

r-th [KKT91]. Rabin [FH79, GY90].
Redundant
[KR79, KRJ+80, RJK79, Som99].

Reference [THY+18], refined [DVS+14].

refinement [CKW93, ZD+15]. Region
[FB87, OSR10, KHH89]. Regions [JCK+18].

Registration [GPA97, JBWK11, Par18].

Regression [OGAB14, TGGF10]. Regular
[CKW09, CH94, IIL17, MSP12].

Regularized [TGGF10]. Rehashable
[LBJ02].

Rehashing [Kel93, Kel96, Mad80]. Related
[Kmt74, PF88, de 69, GC90, MC89].

Relational
[Bab79, Bra84b, FP89b, Fro82, Gra88, Gra89, He87, Heu87, IH83, KR86b, KR86a, KP81, Kim80, KTMQ83b, KTM83c, MS88a, PF88, Wu85, Yams5, YNKM89, AS89, EBD91, ISH+91, KR88, SP89].

Relation [Nee79, Pett83]. Relations
[KHT89, NP91, PCK05, UHT95]. relationship [LMSF89]. relationships [LC13]. Relative [GB17]. relatively [HF91]. relativistic [TMW10]. RelaxDHT
[LMSM12]. Reliability [MS12, CZ14].

Reliable [BH91, DGMP92, MKAJ18, RHM09, DHKP97, ZLL+07, ZC12].

Reliably [TCP+17], relieving [KLL+97].

Remaps [CRR18]. Remark
[MRW89, Eck74a]. Remote
[LC95, YY07, HL12, LLLH02]. Removal
[Leb87]. Rendering [War86, ZRL+08].

Rendezvous [EH17]. Reorganisation
[Bat80]. Reorganization
[Bar82, Reg82, Szy82, Szy85, SI09].

Reorganizing [JCK+18]. Repair
[Bar97, BRM10]. Repairing [ZJ90].

Repeated [Lar80a]. Repetitions
[YGC+12]. Replacement [Jak85, JCK+18].

replay [BRM10]. Replica
[CCF04, LR+15]. Replication
[LMSM09, LMSM12, UIY10, WY02].

replication-based [UIY10]. Report
[jCPB12, MO92a, TSP+11]. reporting
[YG10]. Repository [XNS+13]. Represent
[Rém92]. Representation
[ANS10, CD84b, DCW91, BL89, BT93, JCC00, MHT+13, TK17]. Representations
[DHT+19, KKK12, SD89b, CRS83b, CFYT94]. representing [LK93]. reprinted
[LT80]. Reprogramming [PLK07].

Republic [Avo83, HL91]. Reputable
[RMB11]. Required [PT16, PT10a].

Requirements [BD92, NSW9]. Rescue
[YY01]. Research
[BV89, BHP92, IEE89, cLM07, Rad70, SVCC01, Vid90, CE95, WO93, Yu92, YR87].

Researcher [GCMG15]. Reserved
[ST86, Tro06, WOL84, Zou85, ST85].

Residue [Ari86, KKT91, Mue04, Rad70].

Reliability [NTY12]. Resilient
[ASWD18, BGS96, LMSM09, WTN09, ZZZM17, LMSM12]. Resistance
[Mit12, BF08, MSP12]. Resistant
[BR97, BR98, CHKO08, IK05, PGV90b, CHKO12, KHK12, PGV91, PGV93g, MS09].

resisting [SXL16]. Resizable [Boy98].

resizing [ZHW19]. Resolution
[Ask05, CadHS00, MC86, YBY95, KdlT89].

Resort [PDI91, IE88b]. Resource
[DB12, HM19, TL93], response [DS95].

Responsible [IH83]. Responsive
[DG93, DG94]. Responsiveness
[BDS88, Sch82a]. Restart [LACJ18].

Restklassenhash [Eck74a]. Results
[ANS09, Bur83c, DR06, DRS12, Jv86, RR08, CV05, LY72]. RETCON [BRM10].

reinforcement [ZLL+07]. Retrieval
[AU79, ANT85, BV89, BIP92, BI12, Bre73, Bur73, Bur76c, Bur77, Cha84a, CJP12, CF89b, Cm90, DS84b, DP08, DHT+19, DSSW90a, DGM89, FH69, FCDH90, FCDH91, FBY92, GPY94b, Irbxx, Kab87, Kno71, LK84, Lar88b, LQH18, Mal77, MHO0, Mor83a, NI83, OT91, RLT83, RSD85, RSD89a, RSD9, RSD90, RSD92, Riv7, RST87b, TS85, Vid90, WH83, Wil79,
WKO78, YDT83, YWH09, YR87, YTJ06, YD86a, ZWH17, Bur76a, CCL91, CJP15, DSSW90b, Gob75, GPY94a, LYJ+13, ML94, RT89, Riv74a, SDR83b, WC94, YD86b, Zha19, ZZLZ18, retrieve [SG72].

Retrieving [AA79b, AA79a, Spr77]. Return [Wil96]. Reusing [ZHS94]. Revising [AA79a, AA79b, Spr77]. Revised [Ytr06, BK07a, Bir07, JY14]. Revisited [AH92, BY99, CDMP05, FLP08, GLS91, GLS94, HK87, HR96, HK87, KK12, KV12, BAT03, Ham02, KKL09, LP04]. Reversing [DHR+15, HLH13, Yu18]. Revocation [Wei11, MFES04]. Reykjavik [ADG+08]. RFID [CJP15, CJP12, FW09, G12, GL17, HCP012, JRP07, LL09, LL17, LXL+19, SPLHC14].


RKA [HLL18a]. RNA [BD+10]. Road [BDPV09, HR04]. Robin [CLM85, CR86, CLM86, DMV04, PV19].

Robust [BFMP11, FLP08, FLP14, KM08, KM10, KO90, Li15, LDY+16, MMG10, MV01, MV02, OCG11, TLZL16, WDP+12, CWC10, EAA+16, YCJ12]. Rockefeller [IE90]. Roma [AAC+01]. Roman [Hol87].


Routers [ATAKS07, PT12b]. Routine [Hea82]. Routing [ABC+16, BT12a, WBWV16, Cha12, HLL18b, PT10b, SPS16, TC04, TBC+05, WW02]. routing-based [WW02].

routines [FH15]. RSA [Joy03, An95a, Jun87]. Rule [BG92, Han90, HCKW90].

Rule-Based [BG92]. rule-based [KKK09]. Rules [CL05, CT12, PCY95, HC02, HC07]. runtime [O0K+10]. Russia [Vau06]. Ryu [KCC05].


Saint-Malo [GQ5, QG95]. saliency [FXW17]. SAMOSA [PHG12]. Sampler [Mii87]. Samplers [CJ19]. samples [HYK08]. Sampling [AD5, Jak5, WM19, BZZ12, CyWM91, ORX90, RKL+11, ZGG05].

San [ACM75b, ACM91b, ACM03a, ACM07, ACM08a, ACM11, DT87, IE88a, IE91b, Joy03, Kar98, Shm00, Sto92, USE90].

Sandwich [Yas07]. Santa [Bel00, Bri92, CRS83a, Cop95a, Cop95b, Fra04, Gol94, Sha05, St93, Vie99, Yun02].

Santiago [BJZ94]. SAP [SFA+19]. sat [DK07, MS13]. SAT-based [MS13].


Scalable [KKK09, DPH08, GLJ11, IEE94c,
LMD+12, MZL+19, MD97, MEK+14, PRRR15, PSZ18, PW94, SSL+18, SKC07, SWTX18, TMW10, WPKK94, WSK+16, CML+14, KKP+17, KYS05, KSC11, KSC12, LNS96, LEHNO, NK16, PT12b, SB14, TLLL09, VBV94, KCR11, NTW09]. Scale
[B12, GGY+19, GLLL17, Lii15, MEK+14, MWC12, NS16a, SHF+17, YGC+12, CML+13, FES09, Kos14, Sh17, SXLLO8, Zha19, ZNP16]. Scale-Invariant [NS16a].
Scaling [AK09, LL13, TCP+17, FHL+19, PES+12, YSL05]. SCALLA [LMD+12].
scanner [ISHY88]. Scanning [Bur81, LLI11]. Scatter
[Ban77, BMB08, Bre73, Day70, FL73, FW76, FW77, Llc72, Lyo78b, Mal77, Mau83, Mor68, Mor83b, Mau86]. Scenes [War86].
Schannel [KPS92]. schedules [GK12b].
Scheduling [Lyo79, TL93]. Scheme
[AK89, BP97, Bur84, CLD82, Cha84b, Cha84c, Cha85, CL86, Cha86a, Cha86b, CC88b, CCG91, CW91, Dat88, DJ80, DHJ83, Fab80, Huli13, JHL08, KJC11, LW88, Lsu88a, LHC05, NXB13, Oto85a, Oto85b, PVM94, PACT90, SGGB00, SHF+17, TC93, VV84, Vit81a, YSW+11, YY07, ZJ09, ZQSH12, ZH18, Bur82, CBB05, CW93, CKW93, CP95b, DF89, EAA+16, HL12, HL03, HFF+17, KCL03, KU04, KCC05, LLH02, LK04, LWG11, MMG10, Oka88, SDR83b, Tsa08, WZ12, YRY04, YG10, ZW05, ZC12, FF90]. Schemes
[BD509, CL505, CLC06, Cor02, D857, DSS17, ED88, HM96, HCDM09, HHL10, Jia89, Jia92a, Jia92b, Jaixx, Kal10, KMO9, LM95, LRY78, LRY80, MY80, MKAS18, Ngu06, Ouk83, PWY+13, PF88, RLS2, RS77, SDR83a, TL95, CJMS19, CQW08, DH84, G594, HDCM11, HSMB91, IN80, KK96, KM10, ML94, NMX19, OS88, RS75, SWN06, ZHS94]. Schluesselwoertern
[Dos78a]. Schnenlen [Kue84a]. Schnorr
[DBGV93, NSW09]. Sci [Sar80]. Science
[ACM91b, AH03, Bar83, Gol94, Got83, IEE76, IEE80b, IEE82, IEE85a, IEE88c, IEE89, IEE91b, IEE92b, IEE99, IEE06, IEE07, IEE10, IEE11b, IEE13, Knu74, Kon10, LC86b, LL83, RRR09, Ric89, Rov90, Wal88, WGM88, Wil85b, Win78, TW77, vL94, AT18]. science/3rd [TW77].
Sciences [SC77], scientific [Fis87]. Scope
[CL83, GJ79], scoped [FF90]. Scopus
[AT18]. Scotland [AV099]. Scratchpad
[vdBGGL16]. SDC [K090]. SE
[Sun02, HLL18a]. Sealed [SKM01].
Sealed-Bid [SKM01]. Search
[Ack74, iA91, Ban77, BM76, Boo74, Bra84a, Bra85, Cer81, CK83b, CK85, Cha91, CL17, CS82, Eck74b, GIM99, HH85, KCB81, Kra82, Kut10, LL85, Luc72, MD97, MW09, Mue04, NS06, Pa192, PACT09, Reg81, RSK17, SD78, San76, Sev74, SGG88, SSL+18, Tam85, TZO15, TK99, Ven86, Vit83, WYY05d, WWZ09, WZ+16, XNS+13, YSW+11, ZLC+12, vW94, AP92, BC06, CKB83a, CK89, CL+14, FP82, GP08, HFZ+15, Kor08, KW94, Lin96, LCH+14, MKS98, MT16, NM02b, NH74, PY88, Ron07, SP12, STS+13, TYSK10, WYY05a, WZ93, ZWT+14, ZLC+18, ZHC+13, ZNP16, WWZ09].
Searches [LL87, Lyo85, GM02, KHH89].
Searching
[Bay74, BS97, Bur75a, CL85, CS82, Dav73, Day70, Dos78b, Fls81, FSS2, Fla83a, Flo87, Gon81, Gon83, Km73, Knu75, Lam70, Mal83, Ml63, Me84, Ouk83, Piw85, R81, Ram89b, RC84, SG76b, TTS2, Wie87b, WB87, YT06, Yub82, CW93, CLW98, ISH+91, Mol90a, Mol90b, PH73].
Seattle [ACM89c, LCK11, KCR11].
Seaweed [NDR08]. Second
[ACM83b, ACM90, SDA91, AKY13, ABD+16, An093d, B085, Ki05, Mi12, TZ12, ABM+12, IEE88b, TSP+11].
Second-Preimage [ABD+16]. Secondary
[Bel70, Bel72, Bel83, Fel87, FP89b, G075, Joh61, NH74, YMB90]. Secrecy [BKST18]. Secret
[HR04, LMJC07, LPPW06, SN06,
sections [NM10]. Secure [AHV98, An93b, An95b, BT12a, CZLC14, CS02, Dan13, DK07, DY90, DY91, DR11, FIP93, FFGL09, GHR99, GZX14, HM96, HR94, JTJOT9, JK11, KMM+06, KP97, LM95, LRY+15, MKAA17, NIS93, Nat95, NR12, PLKS07, PV07, PGV92, Rei03, RS17, SK99, Sho96, Stao6a, Win84, XHZ+19, Yas07, YY07, Zhe90, ZHZ+19, Aam03, FFGL10, GM18, GBL94, HLL18a, IN89, JDFD09, Sim98, SXL16, YRY04, ZC12, ANS97, Ano02, Ano08, Ano12, Bou12, FIP02b, Nat92, Sta94]. Security [AK98, Abi12, And94, ASBdS16, CLNY06, CN08, Cor00, Cor02, FW09, GK12a, HMNB07, HLMW93, HXMW94, ISO97, ISO04, KK12, KL18, Ki01, LC06, LT12, LLL09, MP12, Men12, NAK+15, PW06, RS12, SM02, WPS+12, Yan10, XZL19, ACM94a, ACP10, ABM12, Ano93a, BGKZ12, Kab83, Lai92, LC95, Men17, MPST16, PGV93c, SF88, Sta94]. Segmented [CLYY92, CLYY95]. Segments [Bor84]. Sekundaerspeichers [Pet83]. Select [FNY92]. selectable [BSNP96c, Gon95, Li95]. Selected [SC77, Ytr06, Bor81, JY14, JY14]. Selecting [MHB90, Sou92]. Selection [DC81, FFGOG07, Hea82, MS12, OB14, TY012, CD84a, HYKS08, Dos78a]. Selective [DHT+19]. selectivity [HYKS08, MBKS07]. Selects [Bou12]. Self [HH85, Pag85, PRRR15, SS83, Som99, TY03, Wil96, Wog89, ZF06, AOD19, TK99]. Self-Adjusting [Pag85, Wog89]. Self-checking [Wil96]. self-clustering [AOD19]. Self-Indexed [TK99]. Self-Monitoring [SS83]. Self-Organizing [HH85, Som99, TY03]. Self-Shrinking [ZF06]. Self-Tuning [PRRR15]. Semantic [CDW+19, Li15, LWZ+18, LL13, MTB00]. Semantics [H83]. Semi [CBK83, CLL+14]. Semi-Interactive [CBK83]. Semi-supervised [CLL+14]. semijoin [CCY91]. Semite [LI92]. Semite-Infinite [LI92]. sensing [Ind13]. Sensitive [BT12b, CSSP15, CKPT19, KBG18, Kaw15, MNP08, OWZ14, OTHK11, Pag18, AT18, FWG18, HFZ+15, HFF+17, LNS11, LWXS18, LNW+17, PCM15, QZD+18, SP12, STS+13, WY00, SA17]. Sensor [DK90, LDY+16, PLKS07, ZQSH12, AK09, ADF12, LG13, LND08, RAL07, YG10]. Sensors [DL12, DVS+14]. Sentence [CH12]. Sentences [Ven86]. sentiment [ZZLZ18]. Separate [Kue82b, Mul81, Kue82a]. Separating [FK84, SG16, BV13, LS06, V14]. Separators [Lar88b, Moh90, Moh93, CS93a]. Sept [BD88, Jou85]. September [VLD82, AAC+01, AOV+99, AA86, BZ94, EF12, FS09, FS87, HM08, HKNW07, Ker75, Kna89, LSC91, Vid90, Win78, Yao78]. Sequence [BC08, FP89b, G081, HG77, LPT12, LL85, MS88b, B10, CLW98, Wog89]. Sequences [Som99, KS88a, Q97]. sequencing [KRML09]. Sequential [AD85, BCC10, CT96, GB94, HB89a, KKC12, Lit89, Mul72, Ore83, Piw85, SK98, SG76b, BDPV14, HB89b, IL90]. Series [BJL16]. Served [PM89]. Server [DR92, GSL17, GBC98, Gra99, VB00, Tsa08]. Server-Side [GSL17]. Servers [SKC07, KSC11, KSC12]. Serves [Ano95d]. Service [CCF04, SWT18, Bac02, BPT10, QZD+18, TLL18]. Services [ANS05, Ano85b, HLC10]. Session [HLC10]. Set [BOS11, Kie85, PSZ18, SG76a, WC81, YD85, BGG12, GGR04, HYKS08, HDCM11, HKLS12, HM03, MI84, SA17]. set-expression [GGR04]. Set-Oriented [Kie85]. set-valued [HM03]. Setl [BFR87]. Sets [AA79b, AA79a, GHK91a, GHK91b, GT93, Lit89, PBDD95, Ram92, SPR77, Win90a, AT89, BT89, FP82, IL90]. seven [RAD15]. seven-dimensional [RAD15]. Seventeenth [LC86b, LSC91, R89].
Seventh [ACM75c, ACM75a, ACM88a, dBvL80, LL08, AAC+01, ICD91]. several [DLH+79, Kan90]. SHA
[ANS97, Bou12, TSP+11, AAE+14, ARM+12, BCJ15, jCPB+12, DR06, GLG+02, JRPK07, KKRJ07, KRJ09b, MAK+12, NIS15, NSS+06, SK05, Sta94, SKP15, WYY05a, WYY05d, WYY05c].
SHA-0 [BCJ15, NSS+06, WYY05d].
SHA-1 [ANS97, AAE+14, BCJ15, DR06, JRPK07, KKRJ07, KRJ09b, SKP15, WYY05a, WYY05b, WYY05c, GLG+02].
SHA-2 [SK05].
SHA-256 [MAK+12].
SHA-3 [Bou12, TSP+11, ABM+12, jCPB+12, NIS15]. SHA-512 [GLG+02].
SHA1 [SBK+17]. Shading [ZDI+15].
Shading-based [ZDI+15]. Shanghai [Ano83, LC06].
Shape [SR89]. Shared [Bor84, CadHS00, DadH92, EK93, adH93, KBG18, KU88, KTN92, LTS90, MLD94, MLxx, Mey93, Omi91, PG17, SD89c, SD89d, TR02, TKNT92, VB00, Whi81a, WB03, YNW+09, Don91, GLJ11, Kan91, Kan93, KU86, MSS96, Par18, SD89d].
Shared-Disk [WB03].
Shared-Everything [KTN92, MDL94, TKNT92].
Shared-Memory [MLxx, TR02, Vit81a, Bor84].
Shared-Nothing [SD89c, SD89a, SD89d].
shares [ZHS94].
Sharing [LPWW06, KLO8, KRD92, SNW06, YDS86b, ZHS94]. SHAVite [GLM+10].
SHAVite-3-512 [GLM+10].
Shell [Rei03]. Shenzhen [IEE11a].
Sheraton [ACM75b]. Sheraton-Palace [ACM75b].
Shop [Si02a]. Short [AB12, CW09, CDW+19, DK09, Lys79, NR12, MT16, SV15a].
Short-Input [AB12].
Short-Output [NR12].
Should [Yao81].
Shoup [Mir01].
Showcase [USE00a]. Shrinking [ZFO6].
SHS [Ano08, Ano12, NIS93, Nat92].
SIAM [ACM94d, SDA90, SDA91, ACM97a, ACM05, ACM08a, Kar98, Mat09, Shm00].
Sichere [BN85].
Side [GO07, GSL17, TC04].
SIFT [MMG10]. SIGACT [ACM82, ACM83a, ACM83b, ACM85b, ACM86a, ACM88a, ACM89b, ACM89a, Van10, LL08].
SIGACT-SIGMOD [ACM83a, ACM83b, ACM85b, ACM86a].
SIGACT-SIGMOD-SIGART [ACM88a, ACM89b, ACM89a]. SIGAL [A+90].
SIGART [ACM88a, ACM89b, ACM89a, Van10, LL08].
SIGCSE [LC86b]. SIGIR [BiP92, YR87, BV89]. SIGMOD [ACM82, ACM83a, ACM83b, ACM85b, ACM86a, ACM88a, ACM89b, ACM89a, Bij93, CLM89, FMA02, GMJ90, Van10, HF13, LL08, Nav85, SW94b, Sto92, ACM81, ACM84, BL88, HF13, Lie81, SW94a].
SIGMOD-SIGACT-SIGART [Van10, LL08]. SIGMOD/PODS [HF13].
SIGMOD/PODS’13 [HF13].
Sigal [Cai84].
Signature [ANS05, Ano09, Ano13, BDS09, CS91, Cor02, Dam87, FC87a, FC87b, HHL10, Hul93, Kal01, LR96a, LM95, LL92, NXB13, PW93, PGV93f, RR92, Rul93, TT82, CFN18, NSW09, PBP16, ST93].
Signatures [SS83].
Significant [BCCL10].
Significant-signing [BGG94].
SIGPLAN [ACM79].
Silentreinigung [BN85]. SIMD [AT91, RG89]. SIMD-MIMD [RG89].
Similar [RC94].
Similarities [UCFL08].
Similarity [GJM99, HCF95, LÑON01, NAA12, TWZW11, WSŽ+16, YTL06, CL+14, GP08, HYKS08, SP12, SA17, STS+13, ZWT+14].
Simple [BPZ07, Cie05b, DH01, DS09e, GM94, GM98, IT93, KM08, Lom88, PSSC17, PT12a, Ram92, Sar10, Tho13, CLS95].
Space-Efficient [BPZ07, JD12, PSS09].
space-filling [GZ99]. Space/Time [Blo70].
spaces [IMRV97, NN90]. Spain
[DJRZ06, LSC91, CTC90]. spam
[LZ06, UCFL08]. SPARC [WG94].
SPARQL [HAKM15, HAK+16]. Sparse
[AL86, ASW07, vDSW74b, FKS84, Gri98,
Gri77, KK12, RT81, TY79, ZHC+13,
vDSW74a, Bis12, BT90, BT93, CML+13,
JCC00, CW91, Ind13]. Spatial
[LR96b, SS88, WYD+18, DLN+18, LH06,
SS90b, ZBB+06, ZLC+18]. spatio-
temporal [CWC10, FXWW17].
speaking [LC95]. Special
[ACM82, DT87, Dos78a, GIS05, MO92a].
specialization [SV15a]. Specialized
[Bab79, ISH+91]. Specific
[RTK12, ARH+18, JDW+19]. Specifications
[Nat92]. Specified [AU79].
Specifying [GH+93]. Spectral
[KKC12, Li15, WFT12, WB90, ZWT+14].
Speech [CW09, RJK79]. Speed
[FP89a, KMM+06, KV16, McK89a,
PSR90, TK88, WZ+18, YNM89,
BCC10, EVF06, McK89b, MSS96, RW07,
SLC+07, SXLL08, TLLL07, XMLC11].
Speeding [FH96]. Speicher
[GN80]. Speicherstrukturen [Kue84a].
Speichertechniken [LS85]. Speicherung
[BJMM94b, BJMM94a].
Speicherungsstrukturen [Kue83].
Speicherverfahren [DS84a]. Spelling
[CS82, Mcl82, Rad83, Zam80, MF82, Wei86].
spezifisch [Dos78a]. SPHINCS
[BHH+15].
Spiral [CK94, Mul85]. Split
[LL85, MS88b, SS06, She78, Wog89].
Split-ordered [SS06]. splits [BY89].
Splittable [CP13]. Splitting
[DR09, RT87b, Vek85]. Spoken [KRRH84].
Sponge [ARH+18, BDPV07, AMP12,
BDPV08, BDP11, BDPV12]. Sponge-specific
[ARH+18]. spongente
[BKL+11]. spongy [RS14]. sponsored
[Fis87, HB93, IEE84]. spots [KLL+97].
Spotting [FLF11]. Sprache
[BN85]. Spreading [KO90]. Spring
[AFI63, IEE88a]. Springs [IEE11b]. Spritz
Square [ACM83a, ACM83b, EPR99].
Squares [OG94b]. squaring [Mei95].
SRAM [KHK15]. SRAM/DRAM
[KHK15]. SRS [SQ+14]. SSD [HGH+12].
SSPIN [Cob94]. St [Vau06]. Stability
[CW09]. stable [HF91]. Stack
[Bo84, KV91a, KV91b]. STACS
[AH03]. stage [ZQD+18]. STAIRS
[RCF11]. stamped [GB17]. Stamping
[Cip93, Lip02, SL16]. Standard
[Ano93b, Ano95b, Ano08, Ano12,
Ano13, Dan13, FIP93, LYX+19, NIS93,
Nhat95, NIS15, SK05, CV83a, GV08, Nam86,
Ano02, Dan13, FIP02b, Nat92, Pla98, Lut88].
Standards [Bur06, Fox91, Kal93]. Trash
[ADW12, ADW14, KMW08, KMW10].
State [But17, CH94, HB93, MKF+16,
Pre97b, Pre99, vDP73, ATAKS07, HL94,
PGV93c, Wol93]. Stateful [NTY12, Ged14].
Stateless [BHH+15, MKAA17, NTY12].
Stateless/Stateful [NTY12]. Static
[AA79b, A79a, LC88, Ram92, Sci77,
DMP09]. Statistical
[Fil02, HZ97, Sav90, TTY93, LZ06, MJ08].
Statistically [HR07, Wee07].
Statistically-hiding [HR07]. Statistics
[Rob86, WGM88, DKRT15]. Status
[TSP+11]. steady-state [HL94]. Steering
[LLL18]. Step [Dit76, ZWW+12, AKY13, WS13].
Step-Reduced [ZWW+12, WS13]. Steps
[HKKK10]. Stereo [ZZ83].
Stereo-Warehouse [ZZ83]. stimulating
[JFDF09]. STL [Ben98]. STM [DSS10].
STOC [ACM07, ACM08b]. STOC’12
[ACM12]. Stochastic [HKNW07]. stock
[She06]. Stockholm [PV85, Ros74].
Storage
[ACM04, Bay74, BMB68, Breq73, Col93].
Day70, FL73, Fel87, FP89b, Fro82, GL82, GL88, HCJC06, Kno71, HGH+12, LCK11, Les88, LCLX19, LRY+15, MSK96, Mal77, Mau83, MEK+14, Mor68, Mor83b, Mul81, Mul85, Omi88, OT91, OS83a, OS83b, Pet57, Sam81, SHF+17, TY03, TS85, Tra63, WZY+18, WH83, Witt1, WK078, WB87, YDT83, vdP72, vdP73, AY14, AK09, CRS83b, HGR07, Mau68, MSS96, PT10b, QD02, YSL05, YMI89, van73].

storage-efficiency [PT10b].

Storage-efficient [HCJC06, MSK96].

Store [DW83a, MZL+19, dW83b, SFA+19, Shi17, BP94].

Stores [Bry84, GYW+19, PRRR15].

Storing [AL86, FKS84, MNS07, Ros77, TY79].

Stouffer [ACM87].

Strategies [iA91, iA94, BI87, Die07, adH90, adH93, KL87, KHT89, Mey93, MNS07, Tro95, YB95].

Strategy [CdM90, LMSM09, LC96, NKT88, RS92, GC90, LMSM12].

Stream [DC98a, cLmL07, MNS12, NCFK11, TW07, TS85, DS09a, Ged14, MV08, OCGD11, RS14, Tan83].

Streaming [CN07, STS+13, YSW+11, CBB05, FVS12, ZC12].

streamlining [HS08, FH15, Ken73].

Stretching [BFV12].

String [iA94, Ask05, BRM+09, BH85, Bur84, CFP19, CCH09, Cha91, Dav73, JK14, LLLL17, NNA12, TK88, Tay89, TT82, ASM17, AZ10, Bur82, DC94, GKB90, Kim99, MKBS07, RS97, XMLCL11].

String-indexed [Tay89].

string-pattern [Kim99].

Strings [BS97, Dit91, FM96, Lit91, Pea90, Pea91, RC94, Sav90, Sav91, Euz90].

Strong [CHKO08, CHKO12, JRPK07, HLL18a, Ku04].

strong-password [Ku04].

Strongly [BG07, JK14, Tho00].

Structural [BRM+09, TWZW11, Witt81, ZMI91, FLF11, MK12, ZBB+06].

structure [Lit77a].

Structure [AHS92, CK12, CJC+09, DGM89, DT91a, DT91b, FLF11, Flo77, FB87, GHK91a, GHK91b, CTC90, KS12, NHS84, Omi88, SG88, WH83, Witt83, ZHW19, BR75, BGG12, IG94, KJK90a, KKH89, LNS96, LCH+14, MMC01, MSK96, SB07, TMB02, YD86b].

Structure-Preserving [CK12].

Structured [CS93b, GDA10, Piw85, SGS76b, SM87, WGG+18, BPT10, GHW07, WHS+07, WLLG08].

Structures [AHU83, BDD+10, BFR87, Boy98, BMJ14, CE70, Coh84, DSZ07, DP08, Ell85b, Ell82, Fel88, FZ87, FBY92, Fro82, Gom84, GBY91, Gr174, Har88, Har71b, HS84, Kru84, LC86a, LRY78, LRY80, Lit84, MO92a, RW73, Sal88, SDW14, SW86, Sme92, Ste82, SW87, TA81, TA86, TGL+97, TS76, TS84, VL87, WS76, WK078, Wir86, YLB90, ZLLD18, BY89, CRS83b, FP89a, GJM02, Har73, HM03, Inc81, ICA05, Koe72, Lin96, MTB00, NT01, NM02b, OSS89, Sch06, VL07, Vit01, Wil78, Wil85a, ZKR08].

Structuring [Bay73a].

Studies [Ano93d, GT80, GG80, Yub82].

Study [AR17, BF83, BK07b, Cha84c, Cha85, Cra85, DTS75, DJS80, DHJS83, Ell85b, Gr174, Hil78a, Hil78b, LC86a, LG78, LRD71, TL95, YLB90, HM03, LTH12, Wee88, WTN07].

style [UCFL08].

Sub [WZY+18].

Sub-Datasets [WZY+18].

Subgraph [ZLY+12, WLLG08].

sublinear [CFN18].

Subquadratic [Val15].

subscribe [MJ14].

Subscriptions [Atk75, vdSDW74b, vDSW4a].

subset [IN89, Mon19].

Subspace [KRJ+80, Sch11].

Substring [Boo73, Har71a, MKSA98].

Subsystem [HLC10].

subtype [Duc08].

subtyping [DL06].

Succinct [ANS10, DP08, RRS07, FS08, SH02, SH94].

Suchen [Meh86].

Suffice [ADW12, ADW14].

Sufficiency [NY85].

Sufficient [BDPV14, IK005, IH95, Rus92, Rus93, Rus95].

suffix [BGKZ12, Kos14].

suffix-free-prefix-free [BGKZ12].

suitable [MIZ98].

sum [IN89, Mon19].

summaries

Supercomputing
[ACM04, IEE90, IEE91a, IEE93, Kha95].

Superimposed [CJ86, FH69, SD85, SDKR87, SDR83].

Superior [PT10b]. Superjoin [TRN86]. Supertree [GB10].

Supervised [CLL+14].

Supplement [SC77, Ruc15]. Supplementary [PLKS07].

Support [CN07, Eng94, GSL17, KJC11, SK99, YCR93, Cz14, CKK00, JMH02, KLSV12, LCR93].

Supporting [CLS12].

SURF [YCJ12]. Surface [Lb87, LDY+16].

Surprising [SKD15]. Surrogates [Dee82]. Survey [CZ17, CJ19, Kal93, Sev74, Mil99, RAL07, UP11].

SUSE [PT10b]. Sweden [Ros74].

Switching [IEE74].

Symmetric [FW09, Fil02, HC13, NHS84, Oto85b, PQQ9, PQG99, QG90, Roe94].

Symmetry [KTN92]. Symposia [Got83].

Symposium [ACM94d, ACM75c, ACM75a, ACM76, ACM77b, ACM79, LFP82, ACM82, ACM83a, ACM83b, ACM84b, ACM85b, ACM86b, ACM86a, ACM87, ACM88a, ACM88b, ACM89b, ACM89e, SDA90, ACM90, ACM91c, ACM91d, SDA91, ACM91e, ACM94b, ACM96, ACM97a, ACM97b, ACM98, ACM01, ACM02, ACM03a, ACM05, ACM08a, ACM08b, ACM11, ACM12, AH03, A+90, AIOW11, BW92, Col93, CHK06, EF12, Gol94, Van10, adHMR93, HL91, HF13, IEE74, IEE76, IEE80b, IEE82, IEE84, IEE85a, IEE88c, IEE89, IEE91b, IEE92b, IEE99, IEE05, IEE06, IEE07, IEE10, IEE11b, IEE13, Jaj90, Jen76, Lak96, LL08, Lev95, LC86b, Mat09, MS05, Ng79, ACM77a, Shm00, WGM88, Win78, Wol93, vdHv12, ACM91a, FS09, Fis87, HM08, HKNW07, Kar98, IEE82]. Symsc [Jen76].

Synchronization [Oak98].

Syndrome-Based [VMG12].

Synergy [GH07]. Synonym [QCH+81].

Synopsis [YL+09]. Syntactic [Ven86].

Synthesis [Sah94]. synthetic [GLC08, PGV93e, PGV94].

Syndrome-Based [VMG12].

Syndrome-Based [VMG12].

Systolic [EBD91, PJM88, PBJ09].

T3D [DS97]. Tabellen [BI87]. Table [AL86, Bat75, BRM+09, Bee99, Bur75a].
CCF04, CW91, CHSC18, CL83, Day70, DHK+15, DAC+13, FKS84, FW76, FW77, GK94, GK95, Hop88b, HD72, HLC10, IABV15, JL14, JXY07, JMHO2, JD12, KG95, Kno71, LMJC07, Lev00, Lit80, Litxxa, LACJ18, Lyo85, Mai83, Mai92, MT11, ML75, Muc04, MJT+02, Pri71, Pro89, Rey14, Riv76, Riv78, Sam76, Sam81, San76, Sne92, Szy82, Szy85, TY79, Tro06, VB00, YD84, YT16, YLB90, vdVL12, AY14, AZ10, BCR10, Bay73b, BGG12, Fro81, GSS01, HXLX13, KdlT89, MZK12, MA15, NK16, NI74, PH73, Ram87, SB95, SB97, Tsa08, WTN07, Yu18, ZGG05.

Table-Based

[HLC10].

Table/urn

[Ram87].

Tabled

[AR16].

Tables

[Ack74, APV07, AK74, Ask05, Ban77, BM87, Bay73c, Bay73a, BPBBLP12, Ben98, BI87, CRdPHF12, Cle84, CD84b, EMM07, FFPV84, F003, GT93, Hop68b, HC87, HC13, IK92, Kue82b, Kue84b, Lar88a, LMSM09, LC88, Lit79b, LB07, Luc72, LMR02, Lyo78b, MSD19, MS02, Mit02, MC86, NY55, Pag85, PAPV08, PV92, PTT16, PBD95, Pla98, Qui93, Ram88a, RRS12, RHM09, RMB11, SD78, Sch79a, SS80, SM02, TTI0, Woe06b, Yao81, Yao95, Bat65, CHS+18, Fly92, FFS05, FRS94, GM79, GJR79, HKW05, HKH12, LMSM12, LVD+11, Mad80, MSD16, MRL+19, PT10b, PT12b, QP16, SS06, Tai79, TBC+05, TMW10, Wil03, Wil14, Wog89, WTN09, XLZC14, YTHC97, ZHW01].

tabu

[WZ93].

Tabulation

[KW12, PT12a, TZ12, Tho13, DT14, DKT16, PT11a, PT13, Tho17].

Tabulation-Based

[KW12, TZ12].

Tabulative

[GT80].

Tag

[JRPK07, ZWH17, CJP15, HLL18a, SPLHCB14, CJ12].

tag-based

[HL18a].

Tagged

[ZWH17].

tagging

[TCW+13].

Taipei

[HL91].

Tamed

[NXB13].

Tampa

[IEE88b].

Tamper

[CHL07].

Tamper-proofing

[CHL07].

Tampering

[TZW11, PS08].

Tangle

[ÁVZ11].

Tape

[SvEB84, ML95].

Target

[LBJ02, Mit12, 1RS16, MIGA18].

task

[JDW+19].

task-specific

[JDW+19].

Taxonomy

[CZ17].

TBE

[Zha07].

TBE/IBE

[Zha07].

TCC

[Kil05].

Tcl

[USE00b].

Tcl/2k

[USE00b].

Tcl/Tk

[USE00b].

TEA

[CV05, HSR+01, HSIR02].

Teams

[GBC98, KKW99].

Technical

[IEE84, LC86b, Mit17, SE89].

techniken

[Mer72].

Technique

[AP93, Boo73, CL85, CS82, CT96, Dod82, HC87, KM92, Lit79a, Mau68, McK89a, RZ90, Ram97, SDW14, She78, TK88, Wan84, Yam85, CCY91, GM77, Kan90, KK96, MIGA18, McK89b, Pro94, Sac86, Sag85b].

Techniques

[Bay73a, Bih08, Bre73, CP87, CZ17, Dam90a, Dam91, Dav91, DKO+84b, DKO+84c, DKO84a, DL79, Dun89a, Dun89b, Fel87, Gra92, Gra93c, Gui78, Hel94, KMV10, Kue84b, LDM92, LYD71, Ma177, Mor83b, MC86, Pri71, QV89, QG95, RHL91, Rue93, SD85, SDRK87, SZ93, She91, SS06, Sta73, Sti94a, Vau06, YTJ06, BF08, De 95, DKO+84d, DJRZ06, DJNR09, GQ95, ISO97, ISO04, LY72, PH73, RHL90, SXL08, UPV11, YSL05].

Technology

[IEE11a, RRR99, ISO97, ISO04, 1BJ94, Pei82].

Teletraffic

[CS93b].

Tempe

[Go92, Yu92].

Template

[LMC07].

Templates

[JTOT09].

Temporal

[GY91, WYD+18, CWC10, FXWW17, MHT+13].

temporaries

[Ken73].

TENCON

[Ano93c].

Tennessee

[IEE94c].

Tenth

[DSS84, SC77, YR87].

Terabytes

[IEE02].

term

[KP92].

termination

[Er86].

Terms

[Wil79, ZwCL10, vT14].

ternary

[Bou95].

Tertiary

[Gui75].

Test

[Har71a, RT87a, Sav90, Duc08, ZCZQ19].

Testbed

[SDK91].

Testing

[Boo73, DD11, Fil02, Sam76, WM19, Ay14, HKL12, TD93].

Tetris

[GSS01].

Tetris-Hashing

[GSS01].

Tex

[ACM91b].

Texas

[ACM91b, ACM97b, ACM98, IEE76, USE00b, ACM88a, IEE95, Nav85].

Text
[Bur81, Coh98, CDW+19, DS84b, Dit91, Fal55b, Gon83, HZ86, Lit91, Pea90, Pea91, Sav91, TTT92, Ven84, YSW+11, Gob75, HC07, Ram89b, RCF11, Sab94, ZZZL18, ZHW01].

textes [LG78]. Texts [LG78]. Textual [BH85, MLHK17]. Texture [HSPZ08, ˇSSaS01]. th [KKT91]. Their [CZLC12b, CK15, CJ19, Deb03, Gra88, Gra89, Heu87, HK12b, NR12, RNT90, SDT75, WC81, AG10, adHMR93, NY89b, NY89a, PW08, Pob86, Sie89].

Theorem [Cha84b, CG92, HR14, Kno88, Sho90a]. Theoretic [Sun15, HM93, SXLL08, TZ94a, vL94]. Theoretical [AH03, CHK06, NR12, RNT90, SDT75, WC81, AG10, adHMR93, NY89b, NY89a, PW08, Pob86, Sie89].

There [AKS78].

thesaurus [RW73]. things [SKD15]. Think [DCW01]. Third [ACM91e, jCPB+12, ICD87, IEE88a, BDS88, Gol96, Ano98].


Thousand [KRJ+80]. Thousand-Word [KRJ+80]. thousands [BMS+17, Nic17]. thrash [BFCJ+12]. Threaded [VB00].


Throughput [KHK15, LPT12, PRM16, TP15, WZJS10, MAK+12, XLZC14]. Thyroiditis [SSaS01]. Tiger [AB96, MR07]. Tight [Cha94, CV08, GHK+12, vT14].

Tightly [Mul81, DW05, DW07]. Tillich [Gei95, Gei96, GIMS11, PVCQ08]. Time [ASBdS16, BJL16, Blo70, Bre73, BM99, CW09, Cip93, Cla77, CM93, Dad90, F+03, FPS13, FK94, Gra94b, Jak85, Kab87, LAKW07, LP02, Lyy83, Moh11, Ni83, NS16b, PP08, PSSC17, PWY+13, PS12, Sag85a, SL16, SL16, Sie04, TW91, Val15, WVT90, Win90b, AY14, ASA+09, CJMS19, CCY91, DSD95, FPSS05, FVS12, GB17, GMW90, Han17, Kor08, Man12, MV91a, MN90, MP90, OP03, Par18, Pro18, Sie89, ZRL+08].

Time-Memory [ASBdS16, CJMS19]. Time-Series [BJL16]. time-space [Sie89]. Time-Stamping [Cip93, LP02]. Timer [VL87, VL97]. Times [Mal77, SD78, PY88].

Timestamps [GY91]. Timing [VL87, VL97]. Tiny [GW94, OWZ14, SWQ+14]. title [Dit76]. Tk [USE00b]. TN [ACM94c]. To-many [SV18]. to-one [SV18]. Tokyo [IW89, A+09, Mo92b].

Tolerant [DSSW90a, AAB+92, DSSW90b, HGR07].

Too [CHSC18]. Tool [Lit79b, Lit80, Litxxa, MV01]. Toolbox [Jac92]. Toolkit [FZ87]. Tools [Mil87, JC88b]. Top [APV07, LRY+15, LLG+17, ZLC+12]. Topo [APV07, LLG+17]. Top-Down [LRY+15, ZLC+12]. Topic [RTK12, Gre95].

Topic-Specific [RTK12]. Topics [Joy03].

Topography [RHM09]. Toronto [Gil77, KLT92]. torrent [Bak09]. Towers [ICD88, ICD90]. TPM [WYD+18].

Traceback [JL14, SXLL08]. Tracing [SS89b]. Track [Joy03]. Tracking [GGR04, LLL11, UCF08, FXWW17, ML15, OOK+10]. Tractability [GB10].


Trade-Offs [ASBdS16, Blo70]. tradeoff
Tradeoffs [SD89b, SD90b, SD90a].

Traditional [EMM07].

Traffic [TLLL18, HKL04, MA15, TBC+05].

Tragen [BJMM94b, BJMM94a].

Transaction [CCW+17, SPB88, MTB00, SSU+13, TMB02, Yu92].

Transactions [CHSC18, FK89, MMC01, SSU+13].

Transitive [CdM89, CdM90, GC90].

Translated [WSZ+16].

Translation [BCR10, TK85].

Translator [DGGL16].

Trees [BM76, BD84, BBP88, CLYY92, CHY93, CLYY95, CN07, CD84b, DCW91, Dev99, LQZH14, Reg81, She78, VV84, WI10, AD08, Bra09, CM01, FP82, FK89, KLL+97, Kos14, Lev89, QP16, RRS07, TB91, BD84].

Tree-Structured [PI18, BT10].

Trees [BF17, CT10, TL15, DL16].

Triangular [GPGO16].

Tri [AR16, Bur76b, Bur77, CCH09, Flas81, Flas83a, KS12, Lit81, Lit85, LZLL88, LSV89, LRW89, LRLH91, Oto88b, Reg88, TV83, AZ10, BLC12, Bur76a].

Trie- [KS12].

Tried [ATT98].

Tries [BT94a, BT94b, GO15, Tam81, PBBO12, Pro18, SV15a, SV15b, SV18].

trigger [ZLY+13].

Trigram [Wil79].

Trime [LG11].

Trime-trapdoor [LG11].

Trondheim [Ano95c].

Truncated [FJ13].

Truncating [So93].

Truncation [Wil79].

Trusted [KKRJ07, KRJ09b].

Trustworthy [EH12, LW17].

Tsunami [CZL12].

Tulip [XBH06].

Tunable [AÖD19].

Tunable-LSH [AÖD19].

Tuning [KNT89, PRRR15, Tym96, Vit80a].

tuple [WHS+07].

Turbo [Hej89].

TV [YGC+12].

Tweakable [MKASJ18].

Tweaking [Zha07].

tweets [STS+13].

Twelfth [BV89, CGO86, Col93].

Twentieth [ACM88b, IEE01, Mat09].

Twenty [ACM90, ACM91e, AAC+01, AOV+99, Van10, GSW98, LL08, ACM96, ACM97b, IEE01].

twenty-eight [ACM96].

Twenty-fifth [AOV+99].

Twenty-fourth [GSW98].

twenty-ninth [ACM97b].

Twenty-Seventh [LL08, AAC+01].

twig [KRML09].

Twisted [PT13, DT14].

TWISTER [FFG10, FFG09].

Twitter [RTK12].

Two [DDMM05, DAC+13, HK12a, HSR02, Jv86, KSSS86, LEB87, LMPW15, LYO85, ML15, Pan05, Pip94, PGV90a, TC93, CCL91, DKRT16, GP08, LI10, MS09, Mcn03, PGV93a, PGV93b, QZD+18, SDR83b].

Two-channel [MS09].

Two-Dimensional [KSSS86, LEB87].

Two-Disk [TC93].

Two-level [DAC+13].

Two-Message [HK12a].

Two-permutation-based [LMPW15].

two-stage [QZD+18].

Two-Way [DDMM05].

TWOBLOCK [Van05].

TX [USE91, ACM97, ARA94, IEE94a].

Type [KPS92, KRJ09a, SF88, SL16, SV18].

Type-based [KRJ09a].

Type-Graphs [KPS92].

Type-heterogeneous [SV18].

Types [EjKMP80, Hej89].

TYPHOON [HKW05].

typing [DMP09].
[Wil79, LK93, ZHW01]. Vocabulary
[KRRH84, LLZ10, YWH09, YMI89].
Vocabulary-Based [LLZ10]. Voice
[SMS91]. Volatile [ZH18, CCA+12].
Volcano [Gra94c], volumes [Ruc15].
volumetric [ZDi+15]. Vorschläge
[Kue83]. Vortex [GK08]. Vowel [Wan05].
Vowel-consonant [Wan05]. VPN
[KMM+06]. vs [BATÖ13, GLS94, KKL+09, Oak98].
Vulnerability [BPBBLP12].

WADS [DSZ07]. Wait [LFD17]. Wait-Free
[LFD17]. Walk [FMM09, FMM11, BCR10].
wallet [Nic17]. Warehouse [ZZ83].
Warwick [Pat90, Was [HJ75].
Washington
[ACM94b, ACM89c, BJ93, Fis87].
Watermarking [DR11, WDP+12]. Wave
[LC12]. Wavelet [GH07]. Way
[BCFW09, DGV93, DDM05, GKO8, 
HHR+10, JHLH8, LP15, McC79, Mer90b,
Roe94, Rul93, SP91, Sch91a, Sho00a, Tsz92a,
Wec07, Win83, Win84, YZ00, Zhe90, CMR98,
Gib01, HR07, HYLT99, HLO3, KST99, LW04,
LCH05, MRR90a, MZI98, NY98b, NY98a,
Sim98, SP89, Tsa08, Tsz92b, YL04, ZW05,
ZPS90, ZMJ91, ZPS93b, HMNB07].
WCC [Ytr06]. WDDL [MMMT09]. Weak
[CFF19, HS08, Lis07, PV07]. Weaknesses
[BPS09, DS09c, KCL03, KCC05, SGGB00].
web [KSC11, KSC12, NMX19, AT18,
KLL+97, KSB+99, NM02b, Sch01b, SKC07,
TC04, UCFL08, WY00, WY02, XH06].
Web-Based [Sch01b]. webcam [McN03].
Wegman [Sar80]. Weight
[LR96a, LL92]. Weighted
[Ban77, Lue72, TY8+18, Yao91, YZ00].
Weighting [DSS17]. West [Yao78]. WG
[vL94]. WHAM [LPT12]. Wheels
[VL87, VL97]. Where [Bur06, SW91].
Which [FW76, FW77]. WHIRLPOOL
[RB01, Sas11, Sta06a]. Whirlwind

[BNN+10]. White [BZZ12, IEE88c]. whole
[Pat95]. whom [LC95]. Whose [Gra94b].
WI [FMA02]. Wide [KLL+97, MPST16].
Wien [Kui92]. Will [DCL91]. Winner
[Bou12]. Winter [USE91]. Wireless
[DK09, DPH08, LDY+16, PLK07, SHRD09,
YSW+11, ZQSH12, AK09, ADF12, Cha12,
LG13, LND08, YG10]. Wise
[Ind01, Die96, FPS17]. within [Bay73b].
Without
[CHR99, PV19, SL16, ASW87, BKS4, 
BRM10, CP95a, Dam93, Dam94, Die96,
Jaks5, KSS88b, KSS88c, Ku04, LW04, Mul81,
Pag18, Par18, Reg82, SUH86, Tsa08, ZW05].
Witnesses [AN96]. Wollongong [PSN95].
Word
[BH86, FL11, KRJ+80, LHC05,
BT89, Han17, ST85]. Words
[Chn90, DM90, Dos78a, KR79, KRRH84,
MH00, ST86, Tro06, Wol84, Zou85]. work
[Col93, MV08]. Working [Cer85, CE95].
works [Gre95, LWXS18]. Workshop
[LIW89, ABM06, ODB89, Ano92, BDD09b,
BF89, BD08, CP87, Dam90a, Dar91, Dar91,
Dar 95, DSZ07, DJRZ06, DJNNR09, GQ95,
Hel94, QV89, RRS06, Rei88, Rue93, SZ93,
Utr06, vL94, And94, Bir07, Coh94, Gol96,
KIm94, Yu92, Ano94, Heu87]. World
[Ano93a, Drel17c, IEE92a, LC95, KLL+97].
worm [FNP09, CF98]. Worst
[ANS09, ANS10, DMV04, F+03, FKS84,
Lar81, Lar82a, FPS05, Mic02, MT16].
Worst-Case
[ANS09, ANS10, DMV04, Lar82a, 
Lar81, Mic02]. worst-case/average-case
[Mic02]. Wörterbücher [Wen92]. Write
[Moh90, Moh93, MNS07, ZH18, ZHZ+19].
Write-Ahead [Moh90, Moh93].
Write-Friendly [ZH18]. Write-Once
[MNS07]. Wroclaw [ACJ07]. WSN
[DL12]. WSNs [YLSZ19]. Wyner
[DVS+14].
x [PvO95]. X9.30 [ANS97]. X9.30-2
[ANS97]. X9.62 [ANS05]. Xeon [JHL+15].
REFERENCES

XML [CN07, KRML09, MK12, WLLG08, WWZ09].
XMSS [HRB13, HBG+17]. xor [FJ13, CCHK08, MLP07, VD05, vdBGLGL+16].
XOR-based [CCHK08, VD05]. XPS [Ger95]. XRDB [YNKM89]. XSB [SSW94].
XTEA [CV05].

years [Roe95]. Years [Kon10, IEE01, KR19].
Yi [Wag00]. Yi-Lam [Wag00]. Ynot [NMS+08]. Yokohama [AiNOW11]. Yoo [KCC05]. Yoon [KCC05]. York
[ACM12, GSW98, HFI93, IEE90, IEE99, Mat09, IEE90, Jen76]. Yorktown [Jen76].
YY [Nat92].

Zahlen [BJMM94b, BJMM94a]. Zakopane
[Win78]. Zeiteffizienten [Kue83]. Zemor
[Ge95, Ge96, GIMS11, PVCQ08]. Zero
[CLP13, Dam93, OVE94b, Dam94, OVE94a].
Zer-Knowledge [CLP13, Dam93, OVE94b, Dam94, OVE94a].
Zheng [PGV90a, PGV93a, PGV93b]. Zheng-Matsumoto-
Imai [PGV90a, PGV93a, PGV93b]. Zipper
[LWWQ08]. Ziv [DFS*14]. Zoning [GRZ93].
Zugriffsooperationen [Pei82]. zugriffsver-
fahren [Stu82]. zum [Eck74a]. zur [Koe72, Kue83, Kue84a, Pet83]. Zurich [HKNW07, Lak96].

References

ACM:1969:PAN

LCCN ??

Asano:1990:ISS


Anderson:1979:CPH

dum: [AA79b].

Anderson:1979:CCP


Ausiello:1986:IIC

Giorgio Ausiello and Paolo Atzeni, editors. ICDT '86: International Conference on
REFERENCES


Ajtai:1992:FTG

Apers:2001:PTS

Albertini:2014:MHE

Anshel:2016:CHF

Aamodt:2003:CSP

Anderson:1996:TFN
REFERENCES

Aumasson:2012:SFS

Agrawal:1993:ICV

Ahmed:2016:RN

Andreeva:2016:NSP

Arnold:1973:UHA
Abidin:2012:SUH


Azar:1999:BA


Ailamaki:2006:PIW


Andreeva:2012:SAS


At:2017:LAU


Amdahl:1953:xxx

Amdahl, Gene M., Elaine M. Boehme, Nathaniel Rochester, and Arthur L. Samuel. The year is uncertain. Amdahl originated the idea of open addressing with linear probing, which was later independently rediscovered and published [Ers58b].
REFERENCES

The term 'open addressing' was apparently first used in [Pet57] [see [Kno75, page 274]], 1953.

[AC74] L. V. Atkinson and A. J. Cor-
nah. Full period quadratic
hashing. International Jour-
nal of Computer Mathe-
matics, 4(2):177–189, September
1974. CODEN IJCMAT.
ISSN 0020-7160.

[ACJT07] L. (Lars) Arge, Chris-
tian Cachin, Tomasz Jur-
dzinski, and Andrzej Tar-
lecki, editors. Automata,
languages and program-
ming: 34th international
colloquium, ICALP 2007,
Wrocław, Poland, July 9-
13, 2007: proceedings, vol-
ume 4596 of Lecture Notes
in Computer Science. Spring-
er-Verlag, Berlin, Germany / Hei-
delberg, Germany / Lon-
don, UK / etc., 2007. ISBN
3-540-73419-8. ISSN 0302-
9743 (print), 1611-3349 (elec-
tronic). LCCN QA267 .I55
://www.myilibrary.com?id=
135198; http://www.springerlink.
com/content/978-3-540-
73419-2; http://www.
springerlink.com/openurl.
asp?genre=book\%26isbn=
978-3-540-73419-2; http:
//www.springerlink.com/ [ACM76]
openurl.asp?genre=issue

[ACM75a] A. Frank Ackerman. Quadratic
search for hash tables of
size $p^n$. Communications
of the Association for Com-
puting Machinery, 17(3):
164, March 1974. CO-
DEN CACMA2. ISSN 0001-
0782 (print), 1557-7317 (elec-
tronic).

[ACM75b] ACM, editor. Proceedings of
Seventh Annual ACM Sym-
posium on Theory of Com-
puting, Albuquerque, New
ACM Press, New York, NY
10036, USA, 1975.

[ACM75c] Data: Its Use, Organization
and Management: ACM Pa-
cific 75, Sheraton-Palace Ho-
tel, San Francisco, April 17–
18, 1975. ACM Press, New
York, NY 10036, USA, 1975.

[ACM76] Conference Record of Sev-
enth Annual ACM Sympo-
sium on Theory of Com-
puting: Papers Presented at
the Symposium, Albuquerque,
ACM Press, New York, NY
10036, USA, 1975.

[ACM77] Conference Record of the
Eighth Annual ACM Sympo-


REFERENCES


ACM:1986:PFA


ACM:1984:SPA


ACM:1984:PSA


ACM:1985:RCM


ACM:1985:PFA


ACM:1988:PPS


**ACM:1988:PTA**


**ACM:1989:PPE**


**ACM:1989:PEA**


**ACM:1989:PTF**


**ACM:1990:PTS**


**ACM:1991:PPE**


**ACM:1991:ACS**

ACM:1991:AAS


ACM:1991:CRE


ACM:1991:PTT


ACM:1991:CCS


ACM:1991:IP1


ACM:1991:MMC


ACM-SIAM:1994:ASD

REFERENCES


REFERENCES

NY 10036, USA and 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 2003. ISBN 1-58113-695-1. LCCN ????.


Ahrens:1985:SRS


Adams:2008:ENE


Ashur:2011:LAR

REFERENCES


REFERENCES


Anagnostopoulos:2018:RES Evangelos Anagnostopoulos, Ioannis Z. Emiris, and Ioannis Psarros. Randomized embeddings with slack and

**REFERENCES**

**Ajtai:1983:HFP**


**Ajtai:1984:HFP**


**Akl:1990:ACI**


**Appel:1993:HCG**


**Alon:2010:BFP**

REFERENCES


REFERENCES


[Ald87] David J. Aldous. Hashing with linear probing, un-


Albers:2009:ALP


Alon:1996:DWB


Anderson:1988:PHK


Anderson:1991:TFC


Anderson:1993:CHF


Anderson:1994:FSE

REFERENCES

Anonymous:1983:MPM


Anonymous:1985:PFD


Anonymous:1985:SS


Anonymous:1986:IRN


Anonymous:1989:TIC


Anonymous:1992:PAW


Anonymous:1993:CSA


Anonymous:1993:FSH

Anonymous:1993:TCC


Anonymous:1993:SAD

[Ano93d] Anonymous, editor. The Second Annual Dartmouth Institute on Advanced Graduate Studies in Parallel Computation. Dartmouth College (??), Hanover, NH, USA, June 1993. ISBN ?? LCCN ?? I have been unable to locate this reference in several major libraries, including Dartmoth’s, sigh…

Anonymous:1994:WAM


Anonymous:1995:AUC


Anonymous:1995:FSH


Anonymous:1995:NAT


Anonymous:1995:SHS


Anonymous:1996:RF


Anonymous:2002:SHS

Anonymous:2008:SHS


Anonymous:2009:DSS


Anonymous:2012:SHS


Anonymous:2013:DSS


ANSI:1997:AXP


ANSI:2005:AXP

ANSI. ANSI X9.62:2005:


REFERENCES


Analyti:1992:FSM


Analyti:1993:PAM


Aumasson:2011:CHF


Akbarinia:2007:PTK

Atighehchi:2017:OTM


Anger:1994:IEA


Altawy:2018:SLT


Ariwasa:1968:RHM


Arikan:1994:IGE


Aghili:1982:PGD


Abdelguerfi:1989:EVA

M. Abdelguerfi and A. K. Sood. External VLSI al-


**[AS96]**


**[AS07]**


**[AS09]**


**[AS16]**


**[ASA+09]**


**[ASBdS16]**

5. ISSN 0302-9743 (print), 1611-3349 (electronic).


Asano:1993:APP


Abdulhayoglu:2018:ULS


Al-Talib:2007:IMS


Atkinson:1975:HMS


Aviv:2019:ELG


Ang:1998:TLH

REFERENCES


[Bab79] E. Babb. Implementing a relational database by


REFERENCES

Batson:1965:OST

Batagelj:1975:QHM

Batory:1980:OFD

Batory:1981:AMP

Batory:1982:OBD
D. S. Batory. Optimal file designs and reorganization points. ACM Transactions on Database Systems,
REFERENCES


REFERENCES

ISSN 1066-8888 (print), 0949-877X (electronic).


REFERENCES


[BC39] W. W. Rouse (Walter William Rouse) Ball and H. S. M. (Harold Scott MacDonald [“Donald”]) Coxeter. *Mathematical recreations and essays*. Macmillan Publishing Company, New York, NY, USA, 11th edition, 1939. 45 pp. LCCN QA95 .B3 1939. According to Knuth [Knuth73, p. 507], this is one of two papers that first discuss the birthday paradox: “if 23 or more people are present in the same room, chances are good that two of them will have the same month and day of birth! In other words, if we select a random function which maps 23 keys into a table of size 365, the probability that no two keys map into the same location is only 0.4927 (less than one-half).” The discovery is credited to unpublished work of H. Davenport (1927). See also [vM39].
REFERENCES


REFERENCES


REFERENCES


REFERENCES


Bosselaers:1997:RCH


Bertoni:2011:CSF


Bertoni:2012:KIO


Baraani-Dastjerdi:1997:UCH


Bertoni:2006:RBM


Bertoni:2007:SF


Bertoni:2008:ISC

[BDPV08] G. Bertoni, J. Daemen, M. Peeters, and G. Van Assche. On the indifferentiability-

Bertoni:2009:RPK


Bertoni:2012:KSF


Bertoni:2014:SCS


Beeeri:1988:PTI


Buchmann:2009:HBD


Beeton:TB4-1-36


Beebe:1999:HTL

REFERENCES


REFERENCES

Boral:1989:DMS


Bouillaguet:2008:ACR


Bender:2012:DTH


Batory:1980:UMP


Battiato:2011:RFH


Boeker:1987:SAG


Batory:1980:UMP

[BFG†95] C. Barn, G. Fecteau, A. Goyal,
REFERENCES

Batory:1982:UMP


Becker:1992:RBO


Baritaud:1993:FHCb


Blelloch:2007:SHI


Broadbery:1995:IDE


Barak:1988:HFS

Baritaud:1993:FHCa


Bellare:1994:ICC


Brun:2012:LLS


Barthe:2012:VIH


Barthe:2013:VIH


Bagheri:2012:SFP

REFERENCES


REFERENCES

.springer.com/chapter/10.1007/978-3-662-46800-5_15.


[BI12] Konstantinos Bozas and Ebroul Izquierdo. Large


[BJKS93]

Biscani:2012:PSP


[Bis12]

Buneman:1993:PAS


[BJ93]

Barwick:2007:SAL


[BJ07]

Bierbrauer:1993:FHF


[BJS93]

Bierbrauer:1994:FHF


[BJKS93]

Benhamouda:2016:NFP


[BJL16]
Braibant:2014:IRA


Benouamer:1994:HST


Benouamer:1994:HLN


Bocca:1994:ICV


Bell:1970:LQH


Bechtold:1984:UEH

REFERENCES

[Brassard:1988:GRP]

[Broder:1990:MAH]

[Barker:2007:RRN]

[Bogdanov:2011:SLH]

[Brier:2009:LFC]
REFERENCES


REFERENCES

ISSN 2150-8097.

Blustein:1995:IBV


Bayer:1976:EST


Barklund:1987:HTL


Blakeley:1990:JIM


Bourdon:1990:ORU


Bellare:1997:NPC


Brodnik:1999:MCT

Andrej Brodnik and J. Ian
REFERENCES


Broder:2001:UMH


Beyer:1968:LEC


Beyer:1968:LEC

Black:1998:GHA


Buhrman:2002:BO


Bustio-Martinez:2019:UHL

[BM01] Lázaro Bustio-Martínez, Martín Letras-Luna, René Cumplido, Raudel Hernández-León, Clau-
Barthels:2017:DJA


Barth:1985:SSS


Barreto:2010:WNC


Bobrow:1975:NHL


Bothering:1997:SSS


Bookstein:1972:DH


Bookstein:1973:HST


Bookstein:1974:HCN

[Boo74] Abraham Bookstein. Hash coding with a non-unique search key. *Journal of the
Borman:1981:PSP


Borgwardt:1984:PPU


Bos:2011:EHU


Boukliev:1995:NTL


Boutin:2012:NSW

REFERENCES


REFERENCES


REFERENCES


Bellare:1997:CRH


Bellare:2006:MPP


Bellare:2014:CCH


Bradley:1984:UMD

James Bradley. Use of mean distance between overflow records to compute average search lengths in hash files with open addressing. Technical Report 84/154/12, University of Calgary, May 1984. ?? pp. (email parin@cpsc.ucalgary.ca).

Bratbergsengen:1984:HMR


Bradley:1985:UMD


Bradley:1986:UMD

J. Bradley. Use of mean distance between overflow records to compute average search lengths in hash


REFERENCES


REFERENCES

Bryant:1984:EHL


Biham:1991:DCFb


Biham:1991:DCFa


Biham:1991:DCS


Bhatia:1994:FPH


Bhatia:1994:FIP


Bjatia:1994:FIP


Bentley:1997:FAS


REFERENCES


REFERENCES

journals/tods/1979-4-2/p228-burkhard/.

Burkowski:1981:PHH


Burkowski:1982:HHS


Burkhard:1983:IBI


Burkhard:1983:IIM


Burkhard:1983:PRI


Burkowski:1984:CHH


Burk:1992:HGP


Burkhard:2005:DHP

REFERENCES

Burr:2006:CHS


Burr:2008:NHC


Buttner:1986:UDM


Butin:2017:HBS


Belkin:1989:SPT


Barreto:2012:HCS


Bazrafshan:2013:IBS


REFERENCES


Burnaby, BC, Canada, 1983. ?? pp. (email library@cs.sfu.ca).


137

REFERENCES


[CCW+17] Haibo Chen, Rong Chen, Xingda Wei, Jiaxin Shi,

Chen:1991:HNT


CCY91

Chen:1984:CHC


CD84a

Cheiney:1984:FCR


CDM89

Cheiney:1990:PST


CDM90

Coron:2005:MDR


CDMP05
REFERENCES


Cercone:1987:FAP


Cercone:1988:FAP


Christodoulakis:1989:FOA


Christodoulakis:1989:RPV


Celis:1992:AHL


Catalano:2018:HSS


Cantone:2019:LES


Cooperman:1994:CPR

Gene Cooperman, Larry Finkelstein, Bryant York,

Cowan:1979:HKR


Cotter:1992:CTK


Cormode:2009:FFI


Ceglarek:2012:FPD


Chang:1984:OIR


Cousin:1994:PIS

REFERENCES

ISIJBC. ISSN 0020-0255 (print), 1872-6291 (electronic). Discusses the Multiple Key Hashing method of Rothnie and Lozano [RL74].

Chang:1984:OMP


Chang:1984:SOM

C. C. Chang. The study of an ordered minimal perfect hashing scheme. Communications of the Association for Computing Machinery, 27(4):384–387, April 1984. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). The English translation of Ref. 6 of this paper appears in [Hua82]; that book contains the fundamental prime number functions needed for the ordered minimal perfect hash functions described here.

Chang:1985:SLO


Chang:1986:LOR


Chang:1986:SCO


Chang:1988:APC


Chapman:1991:QSS


Chaudhuri:1994:TBO

Shiva Chaudhuri. Tight bounds on oblivious chaining. SIAM Journal on Computing, 23(6):1253–1265,
REFERENCES


Chang:2012:HCM


Chen:1984:DACa

Wen-Chin Chen. The Design and Analysis of Coalesced Hashing. PhD thesis, Department of Computer Science, Brown University, Providence, RI, USA, November 1984. ?? pp. See also [Che84b].

Chen:1984:DACb


Chen:1991:LPH


Chin:1993:LPH

Andrew Chin. Locality-preserving hashing. In Anonymous [Ano93d], pages 87–98. ISBN ?? LCCN ?? I have been unable to locate this reference in several major libraries, including Dartmouth’s, sigh...

Chin:1994:LPHb


Cormack:1985:PPH


Correa:2006:LTI

José R. Correa, Alejandro Hevia, and Marcos

Camacho:2008:SAC


Camacho:2012:SAC


Chen:2007:TPB


Czech:1992:OAGa


Czech:1992:OAGb


M.-S. Chen, H.-I. Hsiao, and P. S. Yu. Applying hash filters to improving the execution of bushy trees. In Agrawal et al. [ABB93], pages 505–516. ISBN 1-55860-152-X. ISSN 0730-
Ming-Syan Chen, Hui-I Hsiao, and Philip S. Yu.

R. J. Cichelli. On Cichelli’s minimal perfect hash functions method. *Communications of the Association for Computing Machinery*, 23(12):728–729, December 1980. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). This is the author’s response to the comments in [IO80] about [Cic80b]. See also [Sag85a].
Cipra:1993:ETS

Colomb:1986:CIS

Cormode:2019:STA

Chang:2019:CTM

Cho:2012:CBF
See cryptanalysis [SPLHCB14].

[Cho:2015:CBF]

[Cercone:1989:IAP]

[Chu:1994:ASH]

[Chase:2012:NHS]

[Chierichetti:2015:LPF]

[Cercone:1981:LDU]

[Cercone:1983:MAMa]
N. Cercone, M. Krause, and J. Boates. Minimal and almost minimal perfect hash

[Cercone:1983:MAM]


[Cercone:1985:ESL]


[Choi:2009:SPC]


[Clausen:2000:EES]


[Chierichetti:2014:CLF]


[Chierichetti:2019:DLS]

REFERENCES


REFERENCES


[CLE84] John G. Cleary. Compact hash tables using bidirec-


[CLM86] P. Celis, P. Å. Larson, and J. I. Munro. Robin Hood hashing. Technical Report CS-86-14, Department of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, April 1986. ?? pp. See also [Cel86].


Ming-Syan Chen, Mingling Lo, Philip S. Yu, and Honesty C. Young. Applying segmented right-deep trees to pipelining multiple hash joins. IEEE Transactions on Knowledge and Data Engineering, 7(4):656–??, August 1, 1995. CODEN ITKEEH. ISSN 1041-4347.


Xiangyu Chen, Yadong Mu, Hairong Liu, Shuicheng Yan, Yong Rui, and Tat-Seng Chua. Large-scale multilabel propagation based on efficient sparse graph construction. ACM Transac-
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

Chaum:1983:ACP


Chung:1983:PSR


Celis:2011:BBS


Celis:2013:BBS


Comer:1982:HBS


Chang:1983:DOM


Chang:1983:PMF


Chang:1985:FAC

REFERENCES


Cramer:2002:UHP

Chakrabarti:2015:BPL

Cooperman:1996:NSP

Cormode:2010:ANG

Chiou:2012:IMA

IEEE:1990:FAS
Fifth Annual Structure in Complexity Theory Conference Proceedings: July 8–11 1990, Universitat Politècnica de Catalunya, Barcelona,
REFERENCES


Chen:2011:CIK


Chen:2018:AEI


Chen:2018:NVC


Chen:1984:ANV


Chen:1985:AAS


Chen:1986:DAC


Castro:2005:NRG

REFERENCES

Carter:1977:UCHa


Carter:1977:UCHb


Carter:1979:UCH


Chang:1991:LOP


Chang:1993:HON


Carrea:2014:OHN


Cw77b


Chung:2008:TBH


Cw79


Chung:2005:TBH


Chung:2008:TBH


Cw77b


Cw79


Chung:2005:TBH


Cw77b


Chung:2008:TBH


Cw77b


Chung:2008:TBH


Cw77b


Chung:2008:TBH

Chen:2009:SHA


Chiu:2010:FMH


Chandramouli:2019:FFI

Badrish Chandramouli, Dong Xie, Yinan Li, and Donald Kossmann. FishStore: fast ingestion and indexing of raw data. Proceedings of the VLDB Endowment, 12(12):1922–1925, August 2019. CODEN ????? ISSN 2150-8097.

Contini:2006:FPK


Cobb:1991:SIP


Chen:2014:MLC


Chi:2017:HTS

166

REFERENCES

Czech:1998:QPH


Chu:2012:TMP


Chen:2012:AIB


Chen:2012:IBE


Chen:2014:CSI


Dolev:1992:NPH


Dietzfelbinger:1993:OPD

REFERENCES


REFERENCES

[Damgaard:1990:ACE]

[Damgaard:1990:DPH]

[Damgaard:1993:ACE]

[Damgaard:1994:ACE]

[Damgaard:1995:ACE]

[Damgaard:1996:ACE]
REFERENCES

Dang:2013:CFI

Datta:1988:IPH

Davison:1973:RSC

Davies:1991:ACE

Day:1970:FTQ

Drechsler:2012:IEH

Daemen:1993:CSH
REFERENCES


REFERENCES


Debnath:2003:CTA

Deen:1982:IIS

Devroye:1986:LNB

Devine:1993:DID

Devroye:1999:HSR

Denert:1977:D

Datta:1989:IPH
REFERENCES

Domingo-Ferrer:2001:MAR


DellAmico:2015:UAP


Davison:1993:MCR


Davison:1994:MRH


Dawson:1996:CPA

REFERENCES

Desmet:2002:IHC


DeWitt:1986:GHP


Dantras:2016:OIB


Durvaux:2012:IPP


Du:1989:EFS


Dietzfelbinger:1992:PHF

REFERENCES

DeWitt:1990:GDMb


DeWitt:1990:GDMa


Daemen:1993:FDO


Donaldson:1984:CMV


Dietzfelbinger:2001:SMP


Du:1983:SNP


Debnath:2015:RHT

[Biplob Debnath, Alireza]

Dietzfelbinger:1997:RRA


Dolev:1994:NPH


Dolev:2002:NPH


Do:2019:SDC


Dietzfelbinger:2008:DIB


Dietzfelbinger:1990:HDD


I. Dittmer. Note on fast hashing of variable length text strings. Communications of the Association for Computing Machinery, 34(11):118, November 1991. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). Points out that Pearson’s hashing algorithm [Pea90] was discovered fourteen years earlier by this author [Dit76]. See also comments in [Sav91, Lit91, Pea91].

Irit Dinur, Klaus Jansen, Joseph Naor, and José Rolim, editors. Approximation, randomization, and combinatorial optimization: algorithms and techniques: 12th International Workshop, APPROX 2009, and 13th International Workshop, RANDOM 2009, Berkeley, CA,
REFERENCES


Diaz:2006:ARC


Du:1980:SNP


DiCrescenzo:2009:CLH


DK94

REFERENCES


**Delfs:2002:ICP**


**DK02**

**Drmota:2012:PAC**


**DK12**


**DK15**

De:2007:IAS


**DK07**

Dahmen:2009:SHB


**DK09**


REFERENCES

0360-0300 (print), 1557-7341 (electronic). URL

[Dietzfelbinger:1988:DPH]
perfect hashing: Upper and lower bounds. In IEEE-FOCS’88 [IEE88c], pages 524–531. ISBN 0-8186-0877-
3 (paperback), 0-8186-4877-5 (microfiche), 0-8186-8877-7

[Dietzfelbinger:1991:DPH]
perfect hashing: upper and lower bounds. Technical Report CS-TR-310-91, Department of Computer Science,

[Dietzfelbinger:1994:DPH]
Martin Dietzfelbinger, Anna Karlin, Kurt Mehlhorn, Friedhelm Meyer auf der Heide, Hans Rohnert, and
738–761, ????. 1994. CODEN SMJCAT. ISSN 0097-
5397 (print), 1095-7111 (electronic).

[DeWitt:1984:ITMc]
D. J. DeWitt, H. R. Katz, and F. Olken. Implementation techniques for main
memory database systems. Technical report, University of Wisconsin–Madison,

[DeWitt:1984:ITMa]
D. J. DeWitt, R. Katz, F. Olken, L. Shapiro, M. Stone-
braker, and D. Wood. Implementation techniques for main memory database sys-

[DeWitt:1984:ITMb]
D. J. DeWitt, R. H. Katz, F. Olken, L. D. Shapiro, M. Stone-
braker, and D. Wood. Implementation techniques for main memory database sys-
tems. Technical Report UCB/ERL 84/5, Electronics Research Labora-
tory, University of California, Berkeley, CA, USA, January

[DeWitt:1984:ITMd]
David J. DeWitt, Randy H. Katz, Frank Olken, Leonard D.
Shapiro, Michael R. Stonebraker, and David Wood. Implementation techniques


[Dong:2012:UAS] Qi Dong and Donggang Liu. Using auxiliary sensors for pairwise key establishment in WSN. *ACM Trans-


Ernesto Damiani, Valentino Liberali, and Andrea G. B.
REFERENCES


E. D. Demaine, F. Meyer auf der Heide, R. Pagh, and M. Pătraşcu. De dictionariis dynamicis pauco spatio utentibus. (latin) [On dynamic dictionaries using little space]. In Correa et al. [CHK06], pages 349–361. CODEN LNCS9D. ISBN 3-540-32755-X (soft-
REFERENCES


REFERENCES


REFERENCES

[Detroit:2009:AST]

[Doyoddorj:2011:NSI]

[Drescher:2017:BB]

[Drescher:2017:HD]

[Drescher:2017:HRW]

[Dodis:2012:HHA]

[Dertmann:1984:SBI]
REFERENCES

Devine:1984:DFO


Dixon:1997:HPS


Deepthi:2009:DIA


Dietzfelbinger:2009:RUC


Dietzfelbinger:2009:WCH


Du:1995:RMQ


Dayal:1984:VLD

Umeshwar Dayal, G. Schlageter and Lim Huat Seng, editors. Very Large Data Bases:
REFERENCES


Dalessandro:2010:NSS

Dhayal:2017:MMP

Dontas:1990:FTHa

Dontas:1990:FTHb

Dehne:2007:PAI

Dubost:1975:SIN

Dayal:1987:PAC
Umeshwar Dayal and Irv Traiger, editors. Proceedings of Association for Com-
REFERENCES


REFERENCES


[EBD91] K. M. Elleithy, M. A. Bayoumi, and L. M. Delcambre. VLSI implementation of a systolic database machine for relational algebra and hashing. Integration, the VLSI journal, 11(2):169–??, April
1, 1991. CODEN IVJODL. ISSN 0167-9260.


REFERENCES


Ellis:1988:CEH


Erlingsson:2007:CPA


Englert:1994:NSS


Etzel:1999:SHF


Er:1986:UTI


Ershov:1958:PAO

REFERENCES

Ershov:1958:PPB


Estebanez:2014:PMC


Eugenides:1990:ESM


Estan:2006:BAC


Fotakis:2003:SEH


Fabry:1974:CBA


Fahlman:1980:HIS

S. E. Fahlman. The hashnet interconnection scheme. Technical Report CMU-CS-80-125, Department of Computer Science, Carnegie Mel-
REFERENCES

Faloutsos:1985:MHU


Faloutsos:1985:AMT


Faloutsos:1986:MHU


Faloutsos:1988:GCP


Farrell:1993:CCC


Farashahi:2014:HHC


Fontayne:1987:MSR


Frakes:1992:IRD

William B. Frakes and Ricardo Baeza-Yates, editors. *Information Retrieval:
REFERENCES


Faloutsos:1987:DPA

Faloutsos:1987:OSE

Fox:1990:OPM

Fox:1991:OPM

Fox:1992:FAC

Fox:1988:MCE
REFERENCES

ence, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0106, USA, 1988. 11 pp. Electronic mail to fox@fox.cs.vt.edu.

[198]

Fox:1989:MCE


[FCHD89]

[175]

[Feldman:1988:DSM]


[Feldman:1988:DSM]

[Fon]


Manuel R. Freire, Julian Fierrez, Javier Galbally, and Javier Ortega-Garcia. Bio-


Jesus Arias Fisteus, Nor-


puting minimal perfect hash functions for lists of millions of words; previous algorithms were computationally infeasible for more than a few hundred words.

[FHCD92b] Edward A. Fox, Lenwood S. Heath, Qi Fan Chen, and Amjad M. Daoud. Practical minimal perfect hash functions for large databases. Communications of the Association for Computing Machinery, 35(1):105–121, January 1992. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL http://www.acm.org/pubs/toe/Abstracts/0001-0782/129623.html. This is the first published algorithm for computing minimal perfect hash functions for lists of millions of words; previous algorithms were computationally infeasible for more than a few hundred words.


FIPS:2002:SHS  

Fischer:1987:FMP  

Field:2013:UCT  

Fredman:1984:SST  

Fu:1989:CCN  

Fredman:1984:SSS  
using a two-level data structure, the first containing pointers to the second, and the second containing blocks accessible by a perfect hashing function.


REFERENCES


Flores:1977:DSM


Flores:1977:DSM

Floyd:1987:HHP


Floyd:1987:HHP

Fischlin:2008:RMP


Fischlin:2008:RMP

Fischlin:2014:RMP


Fischlin:2014:RMP

Ferguson:2010:SHF


Ferguson:2010:SHF

Flynn:1992:ORU


Flynn:1992:ORU

Flajolet:1985:PCA

Faloutsos:1989:DUE


Faudemay:1991:AAL


Farach:1996:PHS


Franklin:2002:PAS


Frieze:2009:ARW


Frieze:2011:ARW


Faezipour:2009:HPE

Miad Faezipour, Mehrdad Nourani, and Rina Panigrahy. A hardware platform for efficient worm outbreak

**Fagin:1979:EHF**

**Fiat:1988:NOH**

**Fiat:1992:NH**

**Finin:1992:IKM**

**Fox:1991:GEI**

**Frost:1982:FGN**
Fateman:1989:SDS


Fotouhi:1989:OSS


Fountoulakis:2010:ORH


Fountoulakis:2013:ITC


Feigenblat:2017:MWI


Fotakis:2005:SEH


Flajolet:1998:ALP

[FPV98] Philippe Flajolet, Patricio V. Poblete, and Alfredo Viola. On the anal-

**Feldman:1969:ABA**


**Franklin:2004:ACC**


**Ferreira:2011:LHB**


**Freeman:1990:ICP**

REFERENCES

Friemel:1986:DM

Frost:1981:ADI

Frost:1982:BRS

Fraenkel:1994:EMD

Flajolet:1982:BPA
REFERENCES

Fortnow:2008:IIC


Fiat:2009:AEA


Farashahi:2009:HEC


Fouque:2012:IHB


Fuerer:1988:UHV


Fusco:2012:RTC


Friedman:1976:GCH

Daniel P. Friedman and David S. Wise. Garbage collecting a heap which includes a scatter table. Information Processing Letters, 5(6):161–164, December 1976. CODEN IFPLAT. ISSN 0020-
REFERENCES

0190 (print), 1872-6119 (electronic). See erratum [FW77].

[FW77] Daniel P. Friedman and David S. Wise. Erratum: “Garbage Collecting a Heap Which Includes a Scatter Table”. Information Processing Letters, 6(2):72, April ??, 1977. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic). See [FW76].


[FXG18] Joseph Gil, Friedhelm Meyer auf der Heide, and Avi Wigderson. The tree model for hashing: Lower and up-


REFERENCES

Gonnet:1990:AKR


Gonnet:1991:HAD


Guh:1990:PPS


Graefe:1995:FAU


Gollapalli:2015:IRH


Gerber:1987:IHS


**[GG80]**

**[GG86a]**

**[GG86b]**

**[GG92]**

**[GGR04]**

**[GGY+19]**
Guo:2007:CBI


Ghandeharizadeh:1993:ILS


Goldsmith:1991:SCIa


Goldsmith:1991:SCIb


Gal:2012:TBC


Ghosh:1977:DBO


Ghosh:1986:DBO


Gennaro:1999:SHS

R. Gennaro, S. Halevi, and T. Rabin. Secure hash-and-sign signatures without the


Grassl:2011:CTZ


Girault:1987:HFU


Gebhardt:2005:NPV


Goldwasser:2002:DSN


Graham:1979:HST


Goto:1976:HLT

REFERENCES


REFERENCES


Grembowski:2002:CAH

Garcia:2011:CPH

Goodman:2011:SHS

Gong:2017:TMR

Rehak:2008:IAD

Graefe:1991:SVH

Graefe:1994:SVH
REFERENCES

on Knowledge and Data Engineering, 6(6):934–??, December 1, 1994. CODEN ITKEEH. ISSN 1041-4347.

Gonnet:1977:AIH


Gonnet:1979:EOH


Gil:1991:FHP


Gil:1994:SFP


Gil:1998:SFP


Ghaffari:2018:MSV


Garcia-Molina:1990:ASI


Gardarin:1995:OFE

[GMP95] Georges Gardarin, Fernando Machuca, and Philippe Pucheral. OFL: a functional execution model for object query languages. SIGMOD Record (ACM Spe-


REFERENCES

Golshani:1992:EIC

Goldwasser:1994:P

Gollmann:1996:FSE

Gonnet:1977:ALB

Gonnet:1980:OAH

Gonnet:1981:ELL

Gonnet:1983:UDB
Gaston H. Gonnet. Unstructured data bases or very efficient text searching. In ACM-PODS ‘83
REFERENCES


Gonnet:1984:HAD


Gong:1995:CKH


Goto:1983:RSS


Gollapudi:2008:PTM


Gueziec:1997:MIR


Gomez-Perez:2016:CCT


Gentry:2008:THL

Craig Gentry, Chris Peikert, and Vinod Vaikuntanathan. Trapdoors for

Greene:1994:MIHa


Greene:1994:MIHb


Guillou:1995:ACE


Gray:1986:IJH


Graefe:1988:RDF


Graefe:1989:RDF


Graefe:1992:QPT

REFERENCES

Graefe:1993:PEHa


Graefe:1993:PEHb


Graefe:1993:QET


Graefe:1994:DAE


Graefe:1994:SIW


Graefe:1994:VEP


Graefe:1999:VMJ


Gregg:1995:HFT


Grech:2011:JGE


Grimson:1974:PSS

REFERENCES

Griss:1977:EEE


Griss:1979:HKR


Griebel:1998:ASG


Gopal:1993:CCH


Guibas:1976:ADH


Guibas:1978:ADH


Gori:1989:AAC


Grosshans:1986:FSD

REFERENCES

Girault:1994:LCH


Gupta:1994:RSD


Goi:2001:IHF


Goto:1982:DLM


Gope:2017:ASS


Galli:2001:THO


Ganguly:1990:FPP

REFERENCES

Gupta:1998:PTF


Greniewski:1963:ELK


Goto:1980:SHM


Griswold:1993:DID


Guerraoui:2016:OCO


Guibas:1975:HTE


Guibas:1976:AHAa


Guibas:1976:AHAb

Guibas:1976:AHAc

Leo J. Guibas. The analysis of hashing algorithms that exhibit k-ary clustering. In IEEE-FOCS’76 [IEE76], pages 183–196.

Guibas:1978:AHT


Guinier:1989:FUA


Gupta:1989:SHI


Gurski:1973:NAK


Garcia:2008:SCC


Goldreich:1994:TFF


Gadia:1991:IIT

Guo:2019:EER


Griebel:1999:PMA


Guo:2014:CHS


Hachem:1993:AAP


Harbi:2016:ASQ


Harbi:2015:ESQ


Halunen:2012:MGB

REFERENCES


REFERENCES

Hecker:1994:GHG


Hulsing:2017:XEH


Hoang:2010:CAN


Horspool:1987:HCT


Holt:2002:MAR


Holt:2007:PMA


Hedayatpour:2011:HFB

Hsiao:2013:SLB


Healy:2014:AKM


Hart:1995:SHC


Hasan:2006:CSE


Hanson:1990:PMAb


Hernandez-Castro:2012:AFH

REFERENCES


Healey:1972:CEP


Headrick:1982:HRS


Hejlsberg:1989:COT


Hekmatpour:1989:LP1


Heller:1989:EH


Heller:1991:MHY


Helleseth:1994:ACE


Herbert:2007:WHP

Heuer:1987:WRD


Herrin:1991:ADF


Hull:2013:SPC


Huang:2017:QAL


Huang:2015:QAL


Hikita:1977:AFP


Lai:2009:CCD

Hendricks:2007:LOB


Hester:1985:SOL


Harn:2010:ELL


Haitner:2010:UOW


Hill:1978:CSVa


Hill:1978:CSVb


Hildebrandt:1982:VBD


Hille:1988:DAP

Reinhold F. Hille. Data Abstraction and Program Devel-

[Herschel:1975:WHC]


[Helleseth:1996:UHF]


[Hopcroft:1983:HCG]


[Haggard:1986:FMP]


[Hofri:1987:PLR]


[Hagerup:1995:FPP]


[Halevi:2012:SPH]

Hofheinz:2012:PHF


Hk:2010:PAR


Hk:2013:HOE


Hao:2004:ARF


Hao:2007:BHA


Hao:2012:FDM

REFERENCES


[Hsu:2003:NCS] Ching-Hung Hsu and Ming-Chih Lai. A new cipher scheme based on one-way hash function and IDEA.
REFERENCES


[HLL18a] Shuai Han, Shengli Liu, and Lin Lyu. Super-strong RKA secure MAC, PKE and SE from tag-based hash proof system. Designs, Codes, and Cryptography, 86(7):1411–1449, July 2018. CODEN DCCREC. ISSN 0925-


Hanaoka:2012:ICE


Hwang:2019:BBR


Ha:2007:SAE


Hagerup:2001:DD


Havas:1994:GHH


Hiraki:1984:EAM

REFERENCES

**Hashida:1972:LAC**


**Holub:1987:NHE**


**Holden:2013:GHF**


**Hopgood:1968:xxx**


**Hopgood:1968:STO**


**Hanan:1963:ACT**


**Halatsis:1978:PHT**


**Han:2002:CMV**


**Harris:1993:ODM**


REFERENCES


REFERENCES


Hirano:1995:IEH


Hiranandani:1991:PHC


Hafiane:2008:RIH


Hernandez:2001:DTR


Herlihy:2008:HH


Hutflesz:1988:GOP

[HSW88] Andreas Hutflesz, Hans-Werner Six, and Peter Wid-


Huisman:1990:SEM


Hulsing:2013:WOS


Hong:1988:IMB


He:2008:FED


Huang:2013:FDH


Hohl:1994:SIH


Hsu:1986:COE


Zsolt István, Gustavo Alonso, Michaela Blott, and Kees Vissers. A hash table for in-rate data processing. *ACM Transactions on Reconfig-
REFERENCES


**IEEE:1986:ICD**


**IEEE:1987:DEP**


**IEEE:1988:PFI**


**IEEE:1990:PSI**


**IEEE:1991:PSI**


**IEEE:1993:ICD**

[ICD93] Proceedings/Ninth International Conference on Data Engineering, April 19–23,

**IEEE:1974:ASS**


**IEEE:1976:ASF**


**IEEE:1980:PCI**


**IEEE:1980:ASF**


**IEEE:1982:SFC**


**IEEE:1984:ISL**


**IEEE:1985:FOC**

[IEE85a] 26th annual Symposium on
REFERENCES


IEEE:1989:ASF


IEEE:1990:PSN


IEEE:1991:PAS


IEEE:1992:PII

IEEE:1992:PAS

IEEE:1993:PSP

IEEE:1994:DEI

IEEE:1994:NAE

IEEE:1994:PSH

IEEE:1995:PNA


Computer Society order number P????.


REFERENCES

ACM:1989:PIJ


Ishai:2005:SCC


Ishai:2008:CCC


Impagliazzo:1989:ECS

[Russell Impagliazzo and Moni Naor. Efficient cryptographic schemes provably as secure as subset sum. An-
REFERENCES


Hideki Imai, Ronald L. Rivest, and Tsutomu Matsumoto, editors. Advances in Cryptology, ASIACRYPT ’91: International Conference on the Theory and Ap-
Inoue:1991:RRD


ISO:1997:ITS

REFERENCES


Itoh:1993:SCF


Ideguchi:2014:IDC


Jacobson:1992:ETH


Jaeschke:1981:RHM

G. Jaeschke. Reciprocal hashing: a method for generating minimal perfect hashing functions. *Communications of the Association for Computing Machinery*, 24(12):829–833, December 1981. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). Hash functions, for a key \( x \) in a set \( S \) of positive integers, of the form \( h(x) = (C/(Dx+E)) \mod N \) are considered. Though the existence of \( h \) is guaranteed, the scheme suffers from many practical problems because of exhaustive nature of the search for \( h \).

Jagannathan:1991:OPM


Jain:1989:CHS

Raj Jain. A comparison of hashing schemes for ad-


REFERENCES

4309 (print), 1557-7309 (electronic).

[Chang:2012:TRR]

[Junczys-Dowmunt:2012:SEP]

[Jia:2019:ETS]

[Jenks:1976:SPA]

[Jenkins:1997:AAH]

[Janzadeh:2009:SCB]


Jean:2014:ICA

Jaeschke:1980:CMP
[JO80] G. Jaeschke and G. Osterburg. On Cichelli’s minimal perfect hash functions method. Communications of the Association for Computing Machinery, 23(12):728–729, December 1980. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). This letter to the editor contains comments on [Cic80b], together with a response from R. J. Cichelli [Cic80a].

Johnson:1961:ICM

Johannson:1997:BHS

Jouannaud:1985:FPL

Joux:2004:MIH

Joye:2003:TCC

Jutla:2007:PGC


Jensen:2008:OEM


Jin:2009:SMB


Jung:1987:IRC

REFERENCES

Jacobs:1986:TRT


Janson:2016:UAL


Jia:2018:PPH


Jiang:2007:DHT


Joux:2014:SAC


Kabe:1987:RRT


Kahrs:1992:UUL

S. Kahrs. Unlimp, uniqueness as a leitmotiv for implementation. In Bruynooghe and Wirsing [BW92], pages


Kanada:1993:MVP


Karlsson:1982:ACR


Karloff:1998:PNA


Kawagoe:1985:MDH


Kawamoto:2015:LSH


Kanj:2018:SNN


Krause:1981:PHF

Max Krause, Nick Cercone, and John Boates. Perfect hash function search with application to natural language systems. Technical Report CMPT TR 81-6, Simon Fraser University, 1981. ?? pp. (email library@cs.sfu.ca).

Ku:2005:WYR

Wei-Chi Ku, Min-Hung Chiang, and Shen-Tien Chang. Weaknesses of Yoon–Ryu–Yoo’s hash-based password

**Kirk:1984:CMI**


**Ku:2003:WLL**


**Kim:2011:SSE**


**Koushik:1992:LDH**


**Knott:1989:HTC**


**Keller:1993:HRP**


**Keller:1996:FRP**

Kennedy:1973:RSU


Kerr:1975:PIC


Kocberber:2015:AMA


Kak:1995:ILM


Kaushik:2012:MGH


Kralevska:2018:HEC


Karplus:1984:FMP


Khan:1995:PDH

REFERENCES

Kuo:1989:DSF


Kortelainen:2010:MAG


Kanizo:2012:HTF


Kanizo:2015:MTH


Kitsuregawa:1989:JSK


Kim:1991:ISSa


Kim:1991:ISSb

REFERENCES

5999 (print), 1557-9484 (electronic).

Kak:1994:CVW


Kiessling:1985:DFU


Kiltz:2001:PPS


Kilian:2005:TCS


Kim:1980:QOR


Kim:1999:NSP


Kim:2011:EHB

[102x444] Nam-Uk Kim, Sung-Min

Kojima:1985:HFO

Khan:1996:PCI

Kelsey:2006:HHF

Kakvi:2012:OSP

Kakvi:2018:OSP

Kim:2012:SSL
Saehoon Kim, Yoonseop Kang, and Seungjin Choi. Sequential spectral learning to hash with multiple representations. *Lecture Notes in
REFERENCES


REFERENCES


[KL96] Jyrki Katajainen and Michael Lykke. Experiments with universal hashing. DIKU Report 96/8, Department of Computer Science, University of Copenhagen, Copenhagen, Denmark, ??? 1996.


REFERENCES

[102x681] REFERENCES

volume=49&issue=2&spage=147.


REFERENCES

Kirsch:2008:SSH

Karroumi:2009:HBK

Kirsch:2010:POM

Kakarountas:2006:HSF

Kirsch:2010:HBT
REFERENCES

link.springer.com/content/pdf/10.1007/978-3-540-87744-8_51; http://www.springerlink.com/content/24620h6712831010/.


http://www3.oup.co.uk/computer_journal/hdb/Volume_18/Issue_03/tiff/277.tif
http://www3.oup.co.uk/computer_journal/hdb/Volume_18/Issue_03/tiff/278.tif
Section 3, “A history of hashing schemes”, and the lengthy bibliography, are recommended and useful resources.

**Knott:1984:DCC**

**Knott:1988:LOA**

**Khovratovich:2010:RRA**

**Kitsuregawa:1989:EBS**

**Knuth:1973:ACP**

**Knuth:1974:CSR**
REFERENCES


Knuth:1975:ACP

Knuth:1977:DPR

Knudsen:1992:CL

Knudsen:2019:LHA

Kitsuregawa:1990:BSP

Koehler:1972:SDB
Ch. Koehler. Ein System zur Darstellung und Bearbeitung Assoziativer Datenstrukturen. (German) [a system for displaying and edit-

**Kohonen:1980:CAM**


**Koschke:2014:LSI**


**Koushik:1993:DHD**


**Kilov:1981:DMA**

REFERENCES

Kedem:1992:OPA


Krichevskii:1994:CSE


Knudsen:1996:HFB


Knudsen:1997:FSH


Katzenelson:1992:TMT


Kohonen:1979:VFA


Karp:1981:ERP

REFERENCES

Kelley:1986:IMK


Kelley:1986:IME


Kelley:1988:MEH


Keller:1991:APH


Krovetz:2001:FUH


Krovetz:2006:VUH


Kishore:2019:PCH

REFERENCES

Krause:1982:PHF


Krawczyk:1994:LBH


Krawczyk:1995:NHF


Krichevsky:1984:OH


Krichevskii:1989:ADC


Kohonen:1980:TWR


Kawaguchi:2009:TBD


Kim:2009:CIS

REFERENCES

Kwon:2009:FXD


Kohonen:1984:ORS


Knudsen:2007:GFH


Kruse:1984:DSP


Kriegel:1986:EMD


Kriegel:1987:MDH


Kriegel:1987:MDQ

Hans-Peter Kriegel and Bernhard Seeger. Multidimensional dynamic quantile hashing is very effi-


Karger:1999:WCC


Kwak:2011:DIB


Kwak:2012:DIB


Kalvin:1986:TDM


Kim:1999:LEO


Kitsuregawa:1983:AHD


Kitsuregawa:1983:GRA

[KTMO83b] Masaru Kitsuregawa, Hidehiko Tanaka, and Tohru
Kitsuregawa:1983:RAM


Kitsuregawa:1992:PGH


Karlin:1988:PHE


Ku:2004:HBS


Kuespert:1982:MLHa


Kuespert:1982:MLHb

REFERENCES

Kuespert:1983:VZO


Kuespert:1984:USO


Kuespert:1984:EED


Kuich:1992:ALP


Kulkarni:1984:CHF


Kumar:1989:CCM


Kumar:1989:CCE


Kumar:1990:COE

REFERENCES


[**Kutzelnigg:2006:BRG**]


[**Kutzelnigg:2010:IVC**]


[**Kenyon:1991:MQS**] [**KV91**]


[**Katz:2009:SPH**] [**KV09**]


[**Kortelainen:2012:GIH**] [**KVK12**]


[**Kroll:1994:DST**] [**KW94**]

Brigitte Kröll and Peter Widmayer. Distributing a search tree among a growing num-


[Lai:1992:DSB] Xuejia Lai. On the design and security of block ciphers. Hartung-Gorre Verlag, Konstanz, Switzerland, 1992. ISBN 3-89191-573-X. xii + 108 pp. LCCN ??. This is the author’s Ph.D. dissertation. “Secret-key block ciphers are the subject of this work. The design and security of block ciphers, together with their application in hashing techniques, are considered. In particular, iterated block ciphers that are based on iterating a weak round function several times are considered. Four basic constructions for the round function of an iterated cipher are studied.”.

REFERENCES


Lee:2007:CFRa


REFERENCES


[LC86a] T. J. Lehman and M. J. Carey. A study of index


Ted G. Lewis and Curtis R. Cook. Hashing for dynamic and static internal tables. Computer, 21(10):45–57 (or 45–56??), October 1988. CODEN CPTRB4. ISSN 0018-9162 (print), 1558-0814 (electronic). The authors survey the classical hashing function approach to information retrieval and show how general hashing techniques exchange speed for memory. It is a tutorial paper that covers, among other topics, dynamic and static hash tables, perfect hashing, and minimal perfect hashing.


Fang Liu and Lee-Ming Cheng. Perceptual image hashing via wave atom transform. Lecture Notes in CS,
REFERENCES


REFERENCES


Lee:2012:OFL


Lieuwen:1992:PBJ


Liu:2016:TRS


Lebedev:1987:EEU


Luo:2002:SHR

Gang Luo, Curt J. Ellmann, Peter J. Haas, and Jeffrey F. Naughton. A scalable hash ripple join algorithm. In Franklin et al. [FMA02], pages 252–262. ISBN ???? LCCN ???? ACM order number 475020.

Leppanen:1998:BPS


Lesk:1988:GII

REFERENCES


**[Lamiroy:1996:ROI]**


**[LG96]**

**[Li:2013:NCD]**


**[LG13]**

**[Luo:2003:COA]**


**[LH03a]**


**[Luo:2004:IEH]**


**[Lefebvre:2006:PSH]**


**[LH06]**

**[Lin:2005:GPW]**


A. D. Lin. ??? The year is uncertain (???). Extends [Luh53] with an alternative overflow handling technique using “degenerative addresses” [Knu73, p. 541], 1953.
REFERENCES


James Litsios. Note on fast hashing of variable length text strings. Communications of the Association for Computing Machinery, 34(11):118–120, November 1991. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). Suggests a simple extension of Pearson’s hashing algorithm [Pea90] that supports non-character data. See also comments in [Dit91, Sav91, Pea91], and early work in [Dit76].


REFERENCES

Li:2019:IID


Lv:2017:IPL


Larson:1984:FOI


Lucchesi:1993:AFA


Lai:1994:ADB


Lagutin:2007:CIC


Li:2011:TAB

Ping Li and Arnd Christian König. Theory and applications of b-bit minwise hashing. *Communications of the Association for Computing Machinery*, 54(8):101–109, August 2011. CODEN CACMA2. ISSN 0001-
Lemire:2014:SUS


Lemire:2016:FBU


Lee:2004:CUA


Louchard:1983:PTC


Lodi:1985:SSH


Litwin:1986:BDA

[LL86] Witold Litwin and David B. Lomet. The bounded disorder access method. In *Proceedings of the International Conference on Data Engineering*, pages 38–48 (or 38–47??). IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD
REFERENCES

Litwin:1987:NMF


Leng:1992:OWA


Lenzerini:2008:PTS


Lee:2013:SQB


Lowden:2015:DPA


Leung:1989:LPA


Luo:2012:IDE

Yiyuan Luo, Xuejia Lai, and Zheng Gong. Indifferen-


Cheng-Hung Lin, Jin-Cheng Li, Chen-Hsiung Liu, and Shih-Chieh Chang. Perfect hashing based parallel algorithms for multiple string matching on graphic processing units. *IEEE Transactions on Parallel and Dis-
tributed Systems, 28(9):2639–2650, September 2017. CO-
DEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (elec-
computer.org/csdl/trans/
td/2017/09/07864442-abs.
html.

Lloyd:1981:ICI

puter Science, University of Melbourne, Australia, 1981. ?? pp.

Liu:2010:MPI

[LLW10] Xiaowen Liu, Jinyan Li, and Lusheng Wang. Modeling protein interacting groups by quasi-bicliques: Complex-
ity, algorithm, and application. IEEE/ACM Transac-
tions on Computational Biology and Bioinformatics, 7 (2):354–364, April 2010. CO-
DEN ITCBCY. ISSN 1545-
5963 (print), 1557-9964 (elec-
tronic).

Liang:2010:LVB

[LLZ10] Yingyu Liang, Jianmin Li, and Bo Zhang. Learning vocabulary-based hash-
ing with AdaBoost. Lecture Notes in CS, 5016:
545–555, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (elec-
springer.com/content/pdf/10.1007/978-3-642-11301-
7_54.

Lueker:1988:MAD

[LM88] G. S. Lueker and M. Molodow-
itch. More analysis of double hashing. In ACM-TOC’88
[ACM88b], pages 354–359. ISBN 0-89791-264-0. LCCN
QA 76.6 A13 1988.

Lai:1993:HFBa

[Rue93], pages 53–66. ISBN 0-387-56413-6 (New York), 3-

Lai:1993:HFBb

DEN LNCSD9. ISSN 0302-
9743 (print), 1611-3349 (elec-
tronic).

Lueker:1993:MAD

[LM93c] G. S. Lueker and Mariko Molodowitch. More analysis of double hashing. Combi-
natorica, 13(1):83–96, 1993. CODEN COMBDI. ISSN 0209-9683 (print), 1439-6912 (elec-
tronic).

Leighton:1995:LPF

[F. T. Leighton and S. Mi-
cali. Large provably fast and secure digital signature schemes from secure

[Lee:2007:FDF]

Lee:2007:FDF


[LMLC14]

Liu:2014:MIK


[Li:2012:SPS]

Li:2012:SPS


[Lu:2008:CBN]

Lu:2008:CBN


[Luykx:2015:TPB]

Luykx:2015:TPB


[LNS93] Witold Litwin, Marie-Anne A. Neimat, and Donovan A. Schneider. LH* — linear hashing for distributed files. *SIGMOD Record (ACM Special Interest Group on Man*

Litwin:1996:LSD


Lohman:1989:IQO


Lomet:1983:BIE


Lomet:1988:SBD


Lomet:1993:FDO


Lin:2001:EHM

Shu Lin, M. Tamer Özuşu, Vincent Oria, and Raymond T. Ng. An ex-


Franck Landelle and Thomas


Lei:2014:FND


Larson:1985:EPH


Lee:1996:DRW


Lo:1996:SHJ


Li:1999:FJU


Litwin:1991:THC

Litwin:1989:THC


Leskovec:2014:MMD


Lipton:1978:EHS


Lipton:1980:EHS


Lipton:1980:FDO

REFERENCES


Luhn:1953:xxx

Hans Peter Luhn. Internal IBM memo that first suggested the idea of hashing, and one of the first applications of linked linear lists. Luhn is also the inventor of KWIC indexing, in 1960 [Knu73, p. 437]. See also [Lin53], January 1953.

Lum:1973:GPA


Lutterbach:1988:NSD


Li:2011:EDH


Lamdan:1988:GHG


Lee:2004:IAK


Lenstra:2017:TPR

Arjen K. Lenstra and Benjamin Wesolowski. Trustworthy public randomness with
REFERENCES


**Lum:1972:ARK**


**Lum:1971:KAT**


**Liu:2013:IRQ**


**Lyon:1978:HLP**


**Lyon:1978:PST**


**Lyon:1979:BSS**


**Lyon:1983:PCC**

REFERENCES


REFERENCES

Mallach:1977:SST

Mandelbrod:2012:LHA

Martin:1964:HCF

Martin:1971:DEA

Martin:1975:CDB

Martin:1977:CDB

Matias:1993:HPR

Mathieu:2009:PTA
Maurer:1968:PTI


Maurer:1983:IHC


Martini:2003:DHM


Marton:2012:OCC


Manegold:2000:ODA


Mazeika:2007:ESA


Munro:1986:TCR

J. Ian Munro and Pedro Celis. *Techniques for Collision Resolution in Hash Tables with Open Addressing*. IEEE Computer Society Press, 1109 Spring Street,
REFERENCES


Mehlhorn:1982:PSP


Mehlhorn:1984:SS


Mehlhorn:1986:DEA


Meijer:1995:HFB


Mekouar:1983:EPD


Miranda:2014:RSE


Mendelson:1982:AEH


Mennink:2012:OCS

REFERENCES

[Mennink:2017:OCS]

[Mergenthaler:1972:HCT]

[Merkle:1990:FSO]

[Merkle:1990:OWH]

[MeyerAufDerHeide:1993:HSS]

[Mor:1982:HCM]

[Manolopoulos:1992:AHF]
Y. Manolopoulos and N. Fistas. Algorithms for a hashed file with variable-length records. Information sciences, 63(3):229, 1992. CODEN ISIJBC. ISSN 0020-
Munoz:2004:CRS

Mueller:2006:SMG

Mochizuki:2000:ERA

Micciancio:2002:ICH
Maabreh:2018:MHT


Milersen:1998:ECC


Milersen:1999:CPC


Miyaguchi:1989:NHF


Mironov:2001:HFM

Mirrokni:2017:OOM


Mitzenmacher:2009:SOQ


Mittelbach:2012:HCS


Mitzenmacher:2017:BBH


REFERENCES


**Miliaraki:2012:FDS**


**Mozaffari-Kermani:2017:FDA**


**Mozaffari-Kermani:2018:ERE**


**McGrew:2016:SMH**


**Mochizuki:1998:SSA**


**Maurer:1975:HTM**


**Mackert:1986:ROV**

REFERENCES


Rajeev Motwani, Assaf Naor, and Rina Panigrahy. Lower bounds on locality sensitive
REFERENCES


REFERENCES


REFERENCES


REFERENCES

1984. CODEN DGSKAR. ISSN 0366-9092.


[MRL+19] Rodrigo Medeiros Duarte, André Rauber Du Bois,

Mendel:2010:RAR


[MRST10]

Mitchell:1989:RHF


[MRW89]

Mikkilineni:1988:ERJ


Murthy:1988:SSC


Malard:2002:DDH


Montuschi:2005:PIS

Mashatan:2009:ITC

Makrushin:2012:IRB

Morawiecki:2013:SBP

Maier:2016:CHT

McCleod:1990:VLD
Dennis McLeod, Ron Sacks-Davis, and Hans Schek, editors. *Very Large Data Bases: 16th International Conference on Very Large Data Bases, August 13–16, 1990, Brisbane, Australia*. Morgan Kaufmann Publishers, San


Mullan:2016:HHF

Madria:2000:MLT

Muehlbacher:2004:FHT

Mullin:1972:IIS

Mullin:1981:TCL

Mullin:1984:UDH

Mullin:1984:UDH
REFERENCES


tal storage: Efficient dy
namic hashing with con
stant performance. The
Computer Journal, 28(3):
330–334, July 1985. CO
DEN CMPJA6. ISSN 0010
4620 (print), 1460-2067 (elec
tronic).

on universal classes of hash
functions. Information Pro
cessing Letters, 37(5):247–
256, March 14, 1991. CO
DEN IFPLAT. ISSN 0020
0190 (print), 1872-6119 (elec
tronic).

tions for hash-based join
methods. The Computer Jour
nal, 35(6):A499–A503, Dece
ISSN 0010-4620 (print), 1460-2067 (elec
tronic).

ffrey Scott Vitter. Maxi
mum queue size and hash
ing with lazy deletion. In
Wegman et al. [WGM88],
pages 743–748. URL http:
//www.dtic.mil/dtic/tr/
fulltext/u2/a208838.pdf.

On parallel hashing and in
teger sorting. In Paterson
[Pat90], page ?? ISBN 0
387-52826-1 (New York), 3
540-52826-1 (Berlin). LCCN
QA267.A1 L43 no.443.

Converting high probability
into nearly-constant time,
with applications to parallel
hashing. In ACM-TOC’91
[ACM91e], pages 307–316.
QA 76.6 A13 1991.

On parallel hashing and in
teger sorting. Journal of
Algorithms, 12(4):573–606,
December 1, 1991. CO
DEN JOALDV. ISSN 0196
6774 (print), 1090-2678 (elec
tronic).

Vanstone, editors. Advances in Cryptology–
CRYPTO ’90: Proceedings,
volume 537 of Lecture Notes
in Computer Science. Spring
er-Verlag, Berlin, Germany /
Heidelberg, Germany / Lon
don, UK / etc., 1991. ISBN
0-387-54508-5 (New York), 3
540-54508-5 (Berlin). LCCN
QA76.9.A25 C79 1990. Con
ference held Aug. 11–15,
1990, at the University of California, Santa Barbara.


Mu:2012:ALS


Majewski:1992:FGM


Majewski:1996:FPH


http://www3.oup.co.uk/computer_journal/Volume_39/Issue_06/0139_06.body.html#AbstractMajewski. This paper claims the discovery of order-preserving perfect hashing methods that run in linear time.

Ma:2012:HPO


Mendelson:1979:PMO


Mendelson:1980:NAA

REFERENCES


Nuida:2015:MPS


Namba:1986:SIU


NIST:1992:PYA


NIST:1995:FPSb


Navathe:1985:PAI


Nakano:2011:AMI


Narayanan:2008:DAQ

[NDMR08] Dushyanth Narayanan, Austin Donnelly, Richard Mortier,

[NH74]


[Nec79]


[Ng79]


[NI83]

Shaun Nichols. Nice-Hash diced up by hackers, thousands of Bitcoin

Niemeyer:1975:DV

Nilli:1994:PHP

NIST:2015:SSP

Nielsen:2016:SLF

Nakayama:1988:HPJ

Nakajima:2002:PAP
Newhall:2002:CPC

Tia Newhall and Lisa Mee-\linebreak den. A comprehensive \linebreak project for CS2: \linebreak combining key data structures \linebreak and algorithms into an \linebreak integrated Web browser \linebreak and search engine. SIGCSE \linebreak Bulletin (ACM Special \linebreak Interest Group on Computer \linebreak Science Education), 34(1):386–\linebreak 390, March 2002. CO\-\linebreak DEN SIGSD3. ISSN 0097-\linebreak 8418 (print), 2331-3927 (elec\-\linebreak tronic). Inroads: paving \linebreak the way towards excellence in \linebreak computing education.

Nakaike:2010:LER

Takuya Nakaike and Maged M. Michael. Lock elision for \linebreak read-only critical sections in \linebreak Java. SIGPLAN Notices, \linebreak 45(6):269–278, June 2010. \linebreak CODEN SINODQ. ISSN 0362-1340 \linebreak (print), 1523-2867 (print), 1558-1160 (elec\-\linebreak tronic).

Nanevski:2008:YDT

Aleksandar Nanevski, Greg \linebreak Morrisett, Avraham Shin\linebreak nar, Paul Govereau, and \linebreak Lars Birkedal. Ynot: depen\linebreak dent types for imperative \linebreak programs. SIGPLAN No\-\linebreak tices, 43(9):229–240, Septem\linebreak ber 2008. CODEN SIN\-\linebreak ODQ. ISSN 0362-1340 \linebreak (print), 1523-2867 (print), \linebreak 1558-1160 (electronic).

Ntantogian:2019:EPH


Naor:1990:SPS

Joseph Naor and Moni Naor. Small-bias probability \linebreak spaces, efficient constructions \linebreak and applications. In Pro\-\linebreak ceedings of the 22nd Annual \linebreak ACM Symposium on Theory \linebreak of Computing (May 14–16 \linebreak 1990: Baltimore, MD, USA), \linebreak pages 213–223. ACM Press, \linebreak New York, NY 10036, USA, \linebreak 1990. ISBN 0-89791-361-2. \linebreak LCCN ???.

Narita:2012:LJH

Kazuyo Narita, Shinji Nakada\linebreak i, and Takuya Araki. Landmark\linebreak Join: Hash-join based string \linebreak similarity joins with edit dis\linebreak tance constraints. Lecture \linebreak Notes in CS, 7448: \linebreak 180–191, 2012. CODEN \linebreak LNCSD9. ISSN 0302-9743
REFERENCES

358

Noltemeier:1982:I


Noltemeier:1982:IIE


Negri:1991:DJN


Nevelsteen:1999:SPU


Nguyen:2012:SOU


Newman:1990:PHG


Nielsen:1982:ALP


Neelima:2016:PHF

[Arambam Neelima and Kh Manglem Singh. Perceptual...

[Nyang:2016:RCC]


[NS16b]


[NSS+06]


[NSW08]


[NSW09]


[NT01]


REFERENCES

Ouksel:1989:CML

Oaks:1998:BSH

Oligeri:2011:REA

Anonymous:1989:DQO

Olagunju:1994:DPH

Olagunju:1994:ILS

Ordonez:2014:BVS

Oberschelp:1980:IID
Okamoto:1988:DMS


Omiecinski:1989:HBI


Omiecinski:1988:CSS


Omiecinski:1992:AHJ


Ollmert:1989:DD


Olsen:1969:RRF


Omiecinski:1988:CFC


Omiecinski:1989:CFC

Omiecinski:1989:HJP


Omiecinski:1991:PAL


Omar:2012:HEC


Omar:2017:DHS


Odaire:2010:ERT


Ostlin:2003:UHC


Orenstein:1983:DHF


Olken:1990:RSH

[ORX90] Frank Olken, Doron Rotem, and Ping Xu. Random sampling from hash files. SIGMOD Record (ACM Special Interest Group on Management of Data), 19(2):


REFERENCES


**Ouksel:1983:OPD**


**Oxborrow:1986:PFB**


**Ostrovsky:1994:IHSa**


**Ostrovsky:1994:IHSb**


**ODonnell:2014:OLB**


**Pouchol:2009:HHS**


**Pramanik:1993:MDH**


REFERENCES

*Parallel Algorithms and Applications*, 4(3-4):223–237, November 1994. CODEN PAAPEC. ISSN 1063-7192. URL http://www.informaworld.com/smpp/content~content=a777314733. This is a plagiarized article. See http://www.sics.se/europar95/plagiarism.html for details. The original work from which the material in this paper was stolen is due to Thomas J. Sheffler and Randal E. Bryant, CMU report MCU-CS-92-172.

**Palma:2008:EPC**


**Park:2018:OTP**


**Paterson:1990:ALP**


**Patarin:1994:HFA**


**Patarin:1995:CID**


**Papadimitriou:1980:PBH**

Christos H. Papadimitriou and Philip A. Bernstein. On the performance of balanced hashing functions when the
keys are not equiprobable. ACM Transactions on Programming Languages and Systems, 2(1):77–89, January 1980. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Purdom:1985:AA


Prokopec:2012:CTE


Preneel:1997:CHF


Park:1995:UPR


Pang:1993:PPHa

H. Pang, M. Carey, and M. Livny. Partially pre-


REFERENCES

http://www.acm.org/pubs/toc/Abstracts/0001-0782/78978.html. See [Dit76, Dit91, Lit91, Pea91, Sav91].


REFERENCES


Petersson:2013:MDL


Peyrin:2015:CAG


Pramanik:1985:DH


Pramanik:1988:OCR


Papadakis:2009:HBO


Perrizo:1995:DDV


Patil:2017:HHA


Preneel:1990:ATH

B. Preneel, R. Govaerts, and J. Vandewalle. An attack on two hash functions by zheng-matsumoto-imai. In Seberry and Pieprzyk [SP90],
REFERENCES

Preneel:1990:PMD


Preneel:1991:CRH


Preneel:1992:CSH


Preneel:1993:ATH


Preneel:1993:ATH


Preneel:1993:CSI


Preneel:1993:CHF


Preneel:1993:HFB

[PGV93e] B. Preneel, R. Govaerts, and J. Vandewalle. Hash functions based on block ciphers:
REFERENCES


Preneel:1993:IAH


Preneel:1993:PMD


Preneel:1994:HFB


Preneel:1994:HFB


Paul:2012:NPB


Park:2001:VNH


REFERENCES


Pflug:1987:LPN

Plachy:1989:PIC

Popic:2018:FMB

Pineda:2009:UOD

Plauger:1998:SCCk

Park:2007:SDN
Kwangkyu Park, JongHyup Lee, Taekyoung Kwon, and Jooseok Song. Secure dynamic network reprogramming using supplementary
Pieprzyk:1998:RSF


Pieprzyk:1999:RSF


Pieprzyk:2001:RSF


Pagh:2004:CH


Preneel:1993:ADC


Preneel:1994:DPD


Preneel:1994:CHF

REFERENCES

Prenel:1994:CHF


Prenel:1997:HFM


Prenel:1997:MHF


Prenel:1999:SCH


Price:1971:TLT


Peyravian:1998:PHV


Pontarelli:2016:PDP


Provenzano:1989:HTM


Prodinger:1994:ACP

Prokopec:2018:CTC


Paiva:2015:ASS


Peyravian:1999:HBE


Pieprzyk:1993:DHA


Pavlou:2008:FAD


Porat:2012:CHV


Pieprzyk:1995:ACA

REFERENCES


[Pramanik:1990:HSK]

[PSR90]

[PSS09]

[Pong:2010:SSS]

[Pahins:2017:HSL]

[PT10b]
Fong Pong and Nian-Feng Tzeng. SUSE: superior storage-efficiency for routing tables through prefix

**Patrascu:2011:PST**


**Pong:2011:HRP**


**Patrascu:2012:PST**


**Patrascu:2013:TTH**


**Patrascu:2016:IRL**


**Papamanthou:2016:AHT**

Pirotte:1985:VLD

Panti:1992:MOH

Preneel:1995:MBF

Pasini:2007:HSW

Poblete:2019:ARH

Petit:2008:EPR
REFERENCES

Poblete:1994:AHS


Poblete:1997:ALL


Preneel:1995:MMB


Technical Committee on Security and Privacy.

Piper:1993:DSH


Prasanna:1994:SDP


Phan:2006:SCI


Peikert:2008:LTF

Pan:2013:CHF


Pagh:2010:COH


Pagh:2014:COH


Pittel:1988:STE


Quittner:1981:CSH


Quinlan:2002:VNA


Quisquater:1989:BHF


Quisquater:1990:BHF

[QG90] Jean-Jacques Quisquater and Marc Girault. 2n-bit hash-

Quisquater:1995:ACE


Quisquater:1997:ASS


Qi:1998:DAH


Qu:2016:CHT


Quittner:1983:ECI


Quisquater:1989:ACE

Jean-Jacques Quisquater and Joos Vandewalle, editors. Advances in Cryptology—EUROCRYPT ’89: Workshop on the Theory and Ap-
Qi:2018:TSL

Radke:1970:UQR

Radue:1983:DIS

Radhakrishnan:1992:IBC

Richter:2015:SDA

Ragde:1993:PSC
Roman:2007:SCP


Ramakrishna:1987:CPH


Ramakrishna:1988:EPM


Ramakrishna:1988:HPA


Ramakrishna:1989:ARP


Ramakrishna:1989:PPB

[Ram89b] M. V. Ramakrishna. Practical performance of Bloom filters and parallel free-text searching. Communications of the Association for Computing Machinery, 32(10):1237–1239, October 1989. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). Computing Reviews: “This short communication deals with a special kind of hash function called ‘Bloom filters.’ These filters are used, for example, to search a differential file containing updates to a main file.”.

Ramakrishna:1992:SPH


Raman:1997:KFM

[Ram97] Anand V. Raman. The Katapayadi formula and

**Ramakrishna:1991:DPH**


**Rijmen:2001:WHF**


**Rigoutsos:1994:SPS**


**Rao:2011:STE**


**Regnier:1981:AHT**


**Regnier:1982:LHG**


**Regnier:1985:AGF**

Regnier:1988:THA


Reif:1988:AWC


Reid:2003:SSE


Remy:1992:ERE


Reyes:2014:FKM


Ramakrishna:1997:EHH


Richter:1989:HJA


Ramirez-Gutierrez:2012:IRT

Kelsey A. Ramirez-Gutierrez, Mariko Nakano-Miyatake, and Hector M. Perez-Meana.


[Riv74b] Ronald L. Rivest. Analysis of associative retrieval


Rottenstreich:2015:BPW

[175x644]Rottenstreich:2014:VIC


Rottenstreich:2014:VIC

[175x588]Rottenstreich:2015:BPW


Rottenstreich:2014:VIC

[175x464]Ramakrishna:1989:FOU


Ramakrishna:1989:FOU

[175x316]Ramamohanarao:1982:DHS


Ramamohanarao:1982:DHS

[175x180]Rothnie:1974:ABF


Rothnie:1974:ABF


Ragan-Kelley:2011:DSG

[175x228]Rathi:1990:PCE


Rathi:1990:PCE
Rathi:1991:PCE

Richardson:1987:DEP

Ramakrishna:1988:ABD

Rosas:2011:CBC

Robey:2013:HBA
[Rachel N. Robey, David Nichoallef, and Robert W. Robey. Hash-based algo-


[Rön07] Johan Rönnblom. High-error approximate dictionary

[Rosenfeld:1974:IPP]


[Rosenberg:1977:SRA]


[Ross:2006:EHP]


[Ross:2007:EHP]


[Rosenfeld:2012:OCC]


[Rotem:1989:CMH]


[Roussev:2009:HDF]

REFERENCES


REFERENCES


Arnold L. Rosenberg and Larry J. Stockmeyer. Hashing schemes for extendible arrays. In ACM-TOC’75 [ACM75c], pages 159–166.


REFERENCES


Ruckert:2015:MSS


Rueppel:1993:ACE


Ruland:1993:RDS


Russell:1992:NSC


Russell:1993:NSC


Russell:1995:NSC

Ruzic:2008:UDD


Rijmen:2002:PCP


Rickman:1973:SIL


Rigoutsos:1997:GEI


Ramaswamy:2007:HSP


Reyhanitabar:2007:NIM


Rabitti:1990:DST


Ramakrishna:1997:PPS

[RZ97] M. V. Ramakrishna and Justin Zobel. Performance in practice of string hashing functions. In Rodney W.


Sager:1984:NMG


Sager:1985:PTG


Sager:1985:TCS


Salzberg:1988:FS


Samson:1981:HTC


Santoro:1976:FTS


Sarwate:1980:NUC

Sarkar:2010:SGC

Sarkar:2011:TBC

Sarkar:2013:NML

Sasaki:2011:MMP

Savoy:1990:SBF

Savoy:1991:NFH
Suggests an improvement to Pearson’s hashing algorithm [Pea90] that avoids secondary clustering. Exhibits a key set for which Pearson’s algorithm produces alarming clustering. See also comments in [Dit91, Lit91, Pea91], and early work in [Dit76].

Sheffler:1993:AHP


Sabharwal:1995:PHT


Sabharwal:1997:IDN


Shankar:2007:DAI


Saikia:2014:PHF


Stevens:2017:AFS


Scolari:2016:SCP

Alberto Scolari, Davide Basilio, Bartolini, and Marco Domenico.

Sprague:1977:PTh


Shekita:1990:PEPc


Schauer:1976:PA


Scheuermann:1979:OHH


Scholl:1979:PAN

Scholl:1981:NFO

Scheuermann:1982:PSI

Schmitt:1982:CPF

Schmidt:1990:GPH

Schneider:1990:CQP

Schneier:1991:OWH
[Sch91a] Bruce Schneier. One-way hash functions: Probabilistic algorithms can be used for general-purpose pattern matching. *Dr. Dobbs Journal*, 16(9):148–151, September 1, 1991. CODEN DDJOEB. ISSN 1044-789X.

Schnorr:1991:FHE

Schnorr:1993:FHIa

Schnorr:1993:FH Ib


[SD85] Ron Sacks-Davis. Performance of a multi-key access method based on descriptors and superimposed coding techniques. *Information System*, 10(4):391–403, 1985. CODEN INSYD6. ISSN 0306-4379 (print), 1873-6076 (electronic). Hashing algorithm used to create descriptors for file indexing; this extends the author’s earlier work [SDR83b].
REFERENCES


[SD90a] D. Schneider and D. DeWitt. Tradeoffs in processing complex join queries via hashing in multiprocessor database machines. In McLeod et al. [MSDS90], page 469. ISBN 1-55860-149-X. LCCN ???


REFERENCES

ACM:1990:PFA


ACM:1991:PSA


Shih:1991:CDC


Sacks-Davis:1987:MAM


Sacks-Davis:1983:ILH

[Sacks-Davis:1983:TLS]


Sacks-Davis:1983:TLS

[Sacks-Davis:1983:ILH]

R. Sacks-Davis and K. Ramamohanarao. A two level

Sorenson:1975:DDH


Schellhorn:2014:SCP


Smith:1989:ITD


Sedgewick:1983:MAC


Sedgewick:1983:A


Sedgewick:1988:A

REFERENCES


REFERENCES

Shneiderman:1976:BSS

SG76b

Shasha:1988:CSS

SG88

Shangguan:2016:SHF

SG16

Steinwandt:2000:WHS

SGGB00

Sharma:2009:DAC

SGK09

Shaolan:2011:EDE

SGY11
Zhang Shaolan, Xing Guobo,


[She06] David B. Sher. Motivating data structures with caching Internet stock data. SIGCSE Bulletin (ACM Special Interest Group on Computer Science Education), 38(3):344, September 2006. CODEN SIGS3. ISSN 0097-
REFERENCES

8418 (print), 2331-3927 (electronic).

Sun:2017:CMC

Shim:2017:PME

Shmoys:2000:PAA

Shoup:1996:FPS

Shoup:2000:CTU

Shoup:2000:UHF
Victor Shoup. Using hash functions as a hedge against chosen ciphertext attack. *Lecture Notes in CS*,

Shoup:2005:ACC


Starzetz:2009:HBC


Sockut:2009:ORD


Siegel:1989:UCF


Siegel:2004:UCE

REFERENCES

Silverstein:2002:JIS


Silverstein:2002:PPH


Simon:1998:FCO


Sakti:1988:GPP


CODEN PCPADL. ISSN 0190-3918. Available from IEEE Service Cent (catalog number 88CH2625-2). Piscataway, NJ, USA.

Shintani:1998:MAS


Schneier:1999:SAL


Sklavos:2005:ISH


REFERENCES

[Schweller:2007:RSE]

[Shultz:1987:TSM]

[Shin:1994:NJA]

[Sit:2002:SCP]

[Storer:2008:DDC]

[Storer:2012:DDC]


REFERENCES


**Spetka:1992:DAD**


**Safkhani:2014:CCA**


**Sprungnoli:1977:PHF**

[Spr77] Renzo Sprungnoli. Perfect hashing functions: a single probe retrieving method for static sets. *Communications of the Association for Computing Machinery*, 20(11):841–850, November 1977. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). This is the first discussion on perfect hashing; describes heuristics for constructing perfect hash functions. See comments in [AA79a].

**Sourlas:2016:EHR**


**Severance:1990:DLH**

[C. Severance, S. Pramanik, and P. Wolberg. Distributed linear hashing and parallel projection in main memory databases. In McLeod et al. [MSDS90], page 674. ISBN 1-55860-149-X. LCCN ???.]

**Schay:1963:MKA**

REFERENCES


REFERENCES


[SS06] Ori Shalev and Nir Shavit. Split-ordered lists: Lock-free extensible hash tables.
Smith:2015:BPF


Shpilrain:2016:CLF


Sara:2001:SCT


Shen:2018:MDH


Soomro:2005:DDH


Stipic:2013:PGT

REFERENCES

December 2013. CODEN ???? ISSN 1544-3566 (print), 1544-3973 (electronic).


REFERENCES

Stallings:1994:SSH


Stallings:1999:HAK


Stallings:2006:WSH


Stinson:1991:UHA


Stinson:1993:ACC


Stinson:1994:CTU

[Sti94a] D. R. Stinson. Combinatorial techniques for universal hash-
REFERENCES

Stinson:1994:UHA


Stinson:2006:SOT


Stonebraker:1992:PAS


Sundaram:2013:SSS


Stumm:1982:UMZ


Sturc:1985:MHU

Jan Sturc. Multidimensional hashing used for conjunctive
REFERENCES


**Steindorfer:2015:CSM**


**Steindorfer:2015:OHA**


**Steindorfer:2018:MOA**


**Stanca:2001:HAC**


**Slot:1984:TVC**

C. Slot and P. van Emde Boas. On tape versus core: An application of space efficient perfect hash functions to the invariance of space. In ACM-TOC’84 [ACM84b], pages 391–400.

**Sincovec:1986:DSU**


**Stubbs:1987:DSA**

REFERENCES


Su:2016:PSN


Sung:2008:LSI


Seltzer:1991:NHP


Shibata:2008:LFD


Sasaki:2011:KKD


Seberry:1993:ACA


Tang:2013:TOH


Terashima:1987:EPL


Tenenhaus:2010:GAN


Tomasic:1997:DSE


Tharp:1988:FOP


REFERENCES


Tan:1993:RSM

Tang:1995:SLO

Tseng:2007:DHS

Thai:2018:TLB

Tang:2016:RIH

Tubaishat:2002:PEL
Malik Ayed Tubaishat, Sanjay Kumar Madria, and


Da Tong and Viktor Prasanna. High throughput sketch
REFERENCES

Taniar:2002:PSH


Trainiter:1963:ARA


Trono:1992:UPC


Trono:1995:CTS


Trono:2006:OTL


Tremblay:1976:IDS

J. P. Tremblay and P. G. Sorenson. *An Introduction to...*
REFERENCES


Round2_Report_NISTIR_7764.pdf.

Tsudik:1992:MAOa


Tsudik:1992:MAOb


Thomlinson:1998:NBP


Tai:1986:CCC


Talio:2010:EDQ


Tian:1993:NHF

Torenvliet:1983:ROT

[Tv83] Leen Torenvliet and P. van Emde Boas. The reconstruction and optimization of trie hashing functions. In Schkolnick and Thanos [ST83a], pages 142–156. CODEN VLDBDP.

Teuhola:1991:MSA


Tartary:2007:CPH


Tang:2018:CIC


Tzschach:1977:TCS


Tang:2011:SFB


Tarjan:1979:SST

ISSN 0001-0782 (print), 1557-7317 (electronic). See also [FKS84].

[Tien:1991:CHB]

[Tang:2003:EDL]

[Tyma:1996:TJP]

[Tao:2010:EAN]

[Tang:2015:EGF]

[Tillich:1994:GHF]

[Tillich:1994:HS]
Thorup:2012:TBI


Urvoy:2008:TWS


Ung:1995:UPR


Ugawa:2010:IRB


Ullman:1970:DHF


Ullman:1972:NEH


Ullman:1982:PDS


Urdaneta:2011:SDS

[UPV11] Guido Urdaneta, Guillaume Pierre, and Maarten Van

Uchiyama:2009:RIB


USENIX:1990:UCC


USENIX:1991:PWU


Vakhshoori:1985:UHD


Valduriez:1987:JI

Valiant:2015:FCS


VanderPool:1973:OSAb


Vandery:1992:FHN


VanTrung:1994:CCC


Gucht:2010:PHE


Vaudenay:1992:FHI


Vaudenay:1993:FHI


Vaudenay:2006:ACE

REFERENCES

Vckovski:2000:MTS

Vingralek:1994:DFO

Vitter:1985:OAM

Vitter:1987:DAC

Vandierendonck:2005:XBH

vandenBraak:2016:CXH
Gert-Jan van den Braak, Juan Gómez-Luna, José María González-Linares, Henk Corporaal, and Nicolás Guíl. Configurable XOR hash functions for banked scratchpad memories in GPUs. IEEE Transactions on Computers, 65(7):2045–2058, ????. 2016. CODEN ITCOB4. ISSN


Olli Ventae. *Fast Text Reconstruction Method for the Correction of Imperfect Text*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD


REFERENCES

0190 (print), 1872-6119 (electronic).


R. von Mises. Über Aufteilungs- und Besetzungswahrscheinlichkeiten. (German) [on partitioning and occupation probabilities]. *İstanbul Üniversitesi Fen Fakültesi Mecmuası*, 4(?):145–163, 1939. See also [BC39].


Kapil Vaswani, Aditya V. Nori, and Trishul M. Chilimbi. Preferential path profiling:


**Wu:1987:ASM**


**[WB87]**

**White:1990:CSA**


**[WB90]**

**Wu:2003:HHS**


**[WB03]**

**Wang:2016:CNC**


**[WBWV16]**

**Wegman:1979:NCA**


**[WC79]**

**Wegman:1981:NHF**


**[WC81]**

**Wu:1994:AGH**

September 1, 1994. CODEN PRLEDG. ISSN 0167-8655 (print), 1872-7344 (electronic).

Walker:2007:PHF


Weng:2012:RIC


Wolf:1991:EAP


References

10.1007/978-3-642-20465-4_32.

Wee:2012:DPH


Wenzel:1992:WBU

M. Wenzel. Wörterbücher für ein beschränktes universum. (German) [Dictionaries for a limited universe]. Diplomarbeit, Fachbereich Informatik, Universität des Saarlandes, Saarbrücken, Germany, ???. 1992.

Wartik:1992:HA


Wang:2004:CHF


Weiss:2012:MSH


Wu:2012:PPA


Weaver:1994:SAM


**Wagner:2000:PSU**


**Wegman:1988:CSS**


**Weide:1983:MCE**


**Wang:2007:BTS**


**Wiederhold:1983:FOD**


**Wiener:1986:EVH**


REFERENCES


[Wil85a] Dan E. Willard. New data structures for orthogonal range queries. *SIAM Journal on Computing*, 14 (1):232–253, February 1985. CODEN SMJCAT. ISSN 0097-5397 (print), 1095-7111 (electronic). This paper, together with an earlier report [Wil78], present seven data structures for orthogonal range queries which are more efficient than earlier data structures used for this purpose, such as box array hashing.


Winternitz:1983:POW


Winternitz:1984:SOH


Winters:1990:MPHa


Wirth:1975:AD


Wirth:1983:AD


Wirth:1986:ADS


Westergaard:2007:CME

Wipke:1978:HFR


Wang:2007:LBP


Wang:2008:HBS


Wang:2009:NTV


Wang:2019:DDD


Wang:1993:IHA


Wyman:2019:IAT

REFERENCES

Witten:1999:MGC


Woelfel:2001:NBO


Woelfel:2005:BOS


Woelfel:2006:CMO


Woelfel:2006:MEM

REFERENCES

Wogulis:1989:SAS

Wolverton:1984:PHF

Wolfowicz:1993:SPR

Wood:1989:PQP

Weng:2010:IHV

Wang:1994:SDP

Wei:2012:SIV
Lei Wei, Thomas Peyrin, Przemyslaw Sokołowski, San Ling, Josef Pieprzyk, and


[Wu:2009:REL]


[Wang:2013:GNL]


[Wu:2005:HC]


[Wang:1990:LTP]


Gaoli Wang and Shaohui Wang. Preimage attack


REFERENCES

Wolf:1993:PHJ


Wang:2014:CGR


Wang:2005:CSA


Wang:2005:FCFa


Wang:2005:FCFb


Wang:2005:ECS


Woodruff:1993:HVT

Wang:2012:BPS


Wang:2010:UHT


Wang:2018:SBD


Xu:2006:TNH


Xia:2009:APL


Xue:2019:SEA

REFERENCES

CODEN IEANEPE. ISSN 1063-6692 (print), 1558-2566 (electronic).


Yen:1995:PHC


Yu:2017:FSD


Yu:2018:MEU


Yang:2012:RHA


Yo:1993:OPA


Yang:1984:DPH


Yang:1985:BMC

W. P. Yang and M. W. Du. A backtracking method for constructing perfect hash functions from a set of mapping functions. *BIT*
Yuen:1986:DFO


Yuen:1986:DFS


Yang:1983:SPH


Yen:1991:MPH


Yu:2010:DRF


Yuan:2012:EMR

Yasuda:1989:PAM


Yum:2010:FVH


Yao:1983:SSG


Yi:2009:SSG


Yen:1990:HTS


Yang:2004:ACH

Yang:2019:NAK


Yokoyama:1989:NLP


Yamane:1989:DEH


Yadan:2009:HJO


Yu:1987:RDI


Yoon:2004:SUA


Yum:2009:SLF


Yao:2005:HBL


Yang:2011:NHB


Yaniv:2016:HDC


Yang:1997:HFM


Yu:2006:SST


Ytrehus:2006:LFN


Yu:1992:IWR


Yu:2002:ACC


Yung:2002:ACC


Yuba:1982:SOP

Yu:2018:RHT


Yuan:1992:VLD


Yuba:1982:SOP
REFERENCES

Yuval:1975:FNN


Yang:2009:ILV


Young:2001:HRS


Yoon:2007:SCH


Yen:2000:WOW


Yu:2016:NFC


REFERENCES


REFERENCES

Zhang:2007:TTI

Zhai:2019:DVP

Zukowski:2006:ACH

Zheng:1990:PDS

Zheng:1994:RSS

Zobel:2001:MHT

Zuo:2019:LHH

**Zuo:2019:WDH**


**Zhang:2009:IBR**


**Zhao:1994:DDBa**


**Zhao:1994:DDBb**


**Zhao:1994:DDBc**

REFERENCES

Zee:2008:FFV


Zhang:2012:LLF


Zhou:2012:TSC


Zhang:2012:HSP

[ZLC+18] Dongxiang Zhang, Yuchen Li, Xin Cao, Jie Shao, and Heng Tao Shen. Augmented keyword search on spatial entity databases. VLDB Journal: Very Large Data Bases, 27(2):225–244, April 2018. CODEN VLDBFR. ISSN 1066-8888 (print), 0949-877X (electronic).

Zhang:2007:BHR


Zhang:2018:LFT


Zhang:2018:AKS

[ZLY+12] Yijia Zhang, Hongfei Lin, Zhihao Yang, Jian Wang, and Yanpeng Li. Hash subgraph pairwise kernel for protein-protein interaction extraction. IEEE/ACM Transactions on Computational Biology and Bioinfor-
REFERENCES


Zhao:2013:AAP


ICCA Journal, 13(2):69–73, 1970. ISSN 0920-234X.

[Refs]

Zou:1985:MMC


Zheng:1990:HOW


Zheng:1993:HOWa


Zheng:1993:HOWb


Zhao:2012:HCB


Zhou:2008:RTS


Zezula:1991:DPS

Zhang:2005:ISS


Zhang:2010:LCH


Zhang:2017:LBP


Zhang:2014:FFS


Zou:2012:PAS


Zhang:2019:SPB


Zhao:1983:PMC

Hejun Zhao and Yuefang Zhang. Practical microcomputer management system of an automated stereo-warehouse. *Chi Hsieh Kung Chi'eng Hsueh Pao/Chinese
Zhou:2018:DSH


Zhang:2017:NLR