

A Complete Bibliography of Publications in the *ACM
Symposia on Theory of Computing (STOC)* for
1980–1989

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Title word cross-reference

2 [Mil84]. $2n$ [BJ85]. 3 [Blu89, Yao83].
= [DL80]. ¹ [Bar86, BT87]. d [YY85].
 g [HI87]. K [Ko88, CSY84, GKS86].
 l [DGS88]. n [Mey85, adH83].
 $O(((m+n)n^2 + (m+n)^{1.5}n)L)$ [Vai87].
 $O(1)$ [FN89]. $O(g)$ [HI87]. $O(\lg n)$ [Bra85].
 $O(\log \log N)$ [AKSS86].
 $O(\log N)$ [Upf89, BP84]. $O(n)$ [Bro86].
 $O(n^{0.4})$ [Blu89]. $O(n^2 \log n \log^* n)$ [Blo80].
 $O(n \log n)$ [AKS83]. ω [CH81, SV89].
 s [BKRU89]. t [BKRU89].

-approximation [Blu89].

-automata [SV89]. **-coloring** [Blu89].
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-exclusion [DGS88]. **-hulls** [CSY84].
-page [GKS86]. **-sequence** [CH81].
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level [AIK81, EM80]. **levels** [Ko88].
lexical [Lub85a]. **lifting** [Kal87].
like [Old83]. **likelihood** [HR83].
limitations [KV89, Yao81a].
limited [Alo85, DDPW83].
Limits [Bea86, Cle86, IR89].
line [Fre83, FS84, IL80, Kal85, Kal87, MSS87, MMS88, PSS80]. **Linear** [KT80, LMR86, AGSS87, AEL85, BBE⁺84, FS89a, GT83, GM81, GS88, Har85, Kar84, PR85, RV83, SC82, TV86, Vai87, Yan88, adH83].
linear-time [GT83, TV86].
Linearity [LN88]. **linearly** [HS85].
Lines [CEGS89]. **linked** [Die82].
list [Bro80, Die82, DS87, ST84].
lists [Kos81]. **livelock** [Tou80].
livelock-free [Tou80]. **Liveness** [DM84].
Local [Ang80, KS89, Yao89].
Localized [Kos81]. **locking** [Yan81].
Log [Wil84, LW83, LMR86].
Log-logarithmic [Wil84].
logarithmic [AIS84, KW88, RV83, Sei86, Wil84]. **logarithms** [Cop84].
LOGCFL [Ven87]. **Logic** [MP80, BKP84, CHMP81, CGKV88, EH82, ES84, FV85, Fei83, FH82, Ger84, HR83, Koz84, MS81b, Old83, Pel85, SV89, Str81].
Logics [Rei80, HS84a, SC82, VW84, VS85].

- logspace** [BN89, AKS87].
logspace-hard [BN89]. **look** [DHSS84].
looping [Str81]. **Low** [AIK81].
Lower [BO83, BRT89, DGS84, Fic81, Kin88, LS81, ABH⁺86, DPGR83, FadHRW85, Häs86, LY86, Maa84, PKR82, Smo87, Val83, VS85].
- machine** [Sim81]. **machines** [Bea86, BL82, Bop89, hC81, DG81, DG82, DT83, GKS86, ITT82, Maa84, MSS87, Vit82, BMS81].
macro [CV86]. **Maintaining** [Die82, Wil82, DS87, Man84, OvL80]. **majority** [RBO89].
Making [DSST86]. **malicious** [KL88].
Manhattan [BBL83].
manipulation [GS83]. **many** [CS80].
Markov [JS88]. **marriages** [Fed89].
marry [Bro86]. **Massachusetts** [ACM83].
Matching [MVV87, GT88a, GS81, Gal84, KUW85b, LV86, LS86, Sto83b, SPR80, Vai88]. **matchings** [Mot89].
matrices [Lub85a].
Matrix [CW87, Mul86, MVV87].
matroid [FS84, GW88]. **matroids** [RS80].
maximal [And85, KW84, Lub85b].
maximum [Blu84, GT86, PKR82].
maximum-finding [PKR82]. **May** [ACM81, ACM82, ACM84, ACM85, ACM86, ACM87, ACM88, ACM89, BKP84, GS88].
measure [KA84, Sto80]. **Measures** [Kin81].
Measuring [Kis82]. **median** [BJ85].
memory [AACS87, AC88, DMMU84, KU86, RS82]. **mental** [GMW87, GM82].
merging [BH82, HS82].
mesh [AK82, KA86, SS86].
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metric [DM84]. **metrical** [BLS87b].
micro [CV86]. **Milwaukee** [ACM81].
minimal [Fel85]. **minimax** [LS86, PRS81].
minimization [Tur83].
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- model** [AACS87, BC80, CM81, Yap80].
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Monotone [KW88, Bop84, KPPY84, Val83].
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Multi [BOGKW88, CFL83b].
Multi-party [CFL83b].
Multi-prover [BOGKW88].
Multicommodity [SNS85, KV86].
multicounters [Vit82].
multidimensional [KLMS84].
multikey [FNS⁺88].
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multiplexed [Iwa83].
multiplication [CW87].
multiplicity [BGM82].
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- n2** [Spi83]. **nature** [Pra80].
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necessary [Yan86]. **negative** [GT88b].
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nineteenth [ACM87]. **no** [Tom80b].
node [Sto80]. **Non** [BFM88, FFP86, FNSS88, BOW88, DGS88, Ukk80].
non-atomic [DGS88].
Non-blocking [FFP86].
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Non-oblivious [FNSS88].
non-real-time [Ukk80].
nondeterminism [Kan83a].
Nondeterministic [GS88, DG82, GKS86, Maa84, MT82, Mir80].
nonlinear [DPGR83, GS88].
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nontrivial [GKS86]. **nonuniform** [KL80b].
Normal [FSS83, Che81]. **note** [KLD86].
Notes [HS82]. **notions** [AUY83].
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number [AM84, Cle88, DL80, HI87, Hua84, Pla80]. **numbers** [BMS84, KLL84, KR88].

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on-line [Fre83, FS84, MMS88, PSS80].
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One [FadHRW85, Lev85, Cai86, CK89, DG81, DG82, GKS86, GMS84, GL89, IR89, ILL89, KLD86, Maa84, MSS87, NY89, Vit82].
one-tape [GKS86, Maa84, Vit82].
One-way [Lev85, GL89, IR89, ILL89, KLD86, NY89]. **online** [BLS87b].
operations [Vai87]. **optima** [AEL85].
Optimal [Awe87, BH87, BCHR88, Bop89, DKS⁺81, FG88, FM88, FP80, Gal84, HMM85, KA86, Rei89, BLS87b, GS81, Hås86, SS86, Tom80a].
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oracle [AFK87, Cai86, Kur82, KMR89].
orbit [KL80a]. **order** [Die82, DS87, GPS89, KS89, KV87, MS81b, Yap80].
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organizing [CHS85]. **orientation** [Spi83].
orthogonal [Vai85].

P [DL80, HSI83, Kal86].
P-computable [Kal86].
packet [Tou80, Upf89].
packing [BJL⁺84, KLMS84].
page [GKS86, HI87]. **pagenumber** [BS84].
pages [Yan86]. **pairs** [Fre87].
papers [ACM80, ACM81].
Parallel [AAK89, GPS87, KU86, Kos86, vzG83, AKSS86, And85, AIS84, Bea86, BOFKT86, Bop89, BH82, CV86, CD82, DT83, Fic83, FadHRW85, FT85, GP81, Gal84, KW84, KZ88, Lei84, LY86, Lub85b, MT87, Mul86, NNS87, PR85, PY88b, Upf84, VB81, Vis84, Yao81b].
parallelism [AK88, Kin81, LV86].
parallelizable [BGSV89].
parallelization [MR87]. **parameter** [Lei81].
partial [GM82, KMK89]. **partition** [Yao83].
party [CFL83b]. **Pascal** [Old83].
Pascal-like [Old83]. **passing** [Lei81].
path [And85, Blo80, Cla87, Fel85, Llo80].
paths [Awe89, Cyp80, Fre87, PU87, SS84, SNS85]. **PDL** [Koz83]. **pebble** [JWK81].
pebbles [CS80, KS88a, Wil85].
pebbling [CS80, Pip80]. **Pebblings** [Koz84].
perfect [BMS84, For87, KUW85b, SvEB84, SPR80]. **performance** [SS89].
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planar [BYE82, BS84, Fre87, KS89, LM85, Mil84, Sto80, SNS85, Yan86, dFPP88].
plane [Lic80, OvL80].
Planning [FW88, Cla87, óSY83].
play [GMW87, GM82]. **point** [Fed89].
poker [GM82]. **Polling** [RS89a].
poly [LMR86]. **poly-log** [LMR86].
polygon [AGSS87].
polygons [BDDG82, TV86].
polyhedra [Cha81]. **polyhedral** [SS84].
polymorphic [Lei81].
Polynomial [DS82, FR85, Ist88, KLL84, AH87, Bar86, BOFKT86, BO88, BMS81, Bus85, Cai86, CM89, DF89, FL89, FM80, Gon84, Imm82, JY81, Kal82, KCV83, Kar84, KLD86, Ko88, KS88b, LM83, Ori88, PW89, Tom80b, You83, adH83].
polynomial-size [Bar86].
polynomial-time [Cai86, CM89, FL89, FM80, Kar84, KLD86]. **polynomials** [AL86, FT85, HS80, Hua84, Kal85, Kal87, Len83].
polytopes [DEY86]. **polytypes** [CEG87].
poset [KS84]. **possibility** [DHS84].

post [Cla85].
power [Bea86, Fur87, KS88a, Kan83a].
powerful [HS84b]. **Powers** [HS84b].
PRAM [BH87]. **PRAMS** [Nis89].
precision [HMM85]. **predicate** [GL89].
prefix [BP87, Fic83]. **prehension** [BFG85].
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presence [HLN87, HMM85, KL88].
presented [ACM80, ACM81].
preserving [KLMR89]. **primality** [PSS88].
primes [AH87, GK86, Hua84, PSS88].
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Private [GS86]. **Probabilistic** [FS89a, GM82, HS84a, MT82, Pip82, Tur83, ABO84, Ber86, Cla85, Fei83, FH82, KLMS84, Koz83, Pnu83, Rei80, RST82, Sim81, Upf84].
probabilities [KV87]. **probability** [Cai86].
probe [FN89, FS89b].
Probing [DEY86, GM81].
problem [And85, Bus87, CLM81, Cla85, CDDS85, CH81, Cyp80, Fic81, FL84, GMS84, GT86, Huy85, IL80, KL80a, KW84, KV87, LN88, Lub85b, May81, PW89, Tom80a, VV85b, VL88, Yao81b, adH83].
Problems [Lev84, AH82, AK82, Awe87, BH87, BGSV89, CSY84, CGKV88, DL80, FR85, Gab83, GBT84, GT88a, GT87, Har85, HS84b, Ja'80, Jw80, KCV83, Kan83b, KT80, KLMS84, Kre86, MMS88, Mey85, MS81a, Mot89, MS81b, Ori81, Yan88, Yap80, vzG83].
procedure [KZ88].
procedures [EH82, Lei81, Old83].
Proceedings [ACM82, ACM83, ACM84, ACM85, ACM86, ACM87, ACM88, ACM89, ACM80, ACM81]. **process** [CHMP81].
processes [Hen84, LLS87].
processor [AK82, DS82, Llo80, VV85b].
processors [Ang80, Cle86, KA86, Vit84].
program [Mir80]. **programming** [Kan83b, KV86, Kar84, LMR86, Rei80, Vai87, Yao80].
programs [AEL85, ABH⁺86, Bar86, BK89, BDFP83, CGKV88, CVW86, IL80, JY81, Kal85, KUW85a, Old83, VW84, VS85, Yan88, Yap80]. **progressions** [CW87].
projective [Lic80].
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protocol [Awe84, Bra85].
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Provable [BL85, IR89].
Provably [RT85, Val89, CL86, Lei82].
prover [BOGKW88]. **Providence** [ACM85].
proving [PKR82]. **Pseudo** [ILL89, LR86].
Pseudo-random [ILL89, LR86].
pseudorandom [All87, BN89, KR88, Lev85].
PSPACE [Cai86, Can88, USS81].
PSPACE-complete [USS81].
public [Adl83, GS86]. **purpose** [GP81].
Pushdown [MS81b, DG81, Eng83, Ukk80].
pushdowns [Pip80].
quadrangle [Yao80]. **Quadratic** [Maa84, AM84, KV86, OSS84, Val89].
Quantifier [Ier89]. **quasi** [Val89, Vaz85].
quasi-random [Vaz85].
quasi-uniform [Val89].
queries [AC89, Imm82, Vai85, Yao82, YY85].
query [Var82]. **quickly** [GK86].
R [VV85b]. **R-NC** [VV85b]. **R**. [Bir89].
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RAM [CD82]. **Ramanujan** [LPS86].
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Randomized [Awe89, KR88, Vis84, Bac87,

Bra85, KZ88, RS89a].
randomness [Bab85, Fur87, KPU88, Sip83b].
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ranking [FJ80, GS85]. **rapid** [JS88].
reachability [Kos82, May81, MS81b].
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Report [GS81].
representation [GPS89, KNR88].
require [GS88, KW88].
requires [BJ85, GPS89, Vai87].
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results [BJL⁺84, Ber86, CM81, JY80].
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ring [FL84, Vit84].
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second-order [MS81b]. **secret** [OE84].
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selection [AKSS86, CM84, FJ80].
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seventeenth [ACM85]. **shared** [KU86].
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shortest-path [Blo80]. **shuffle** [KLLM81].
shuffle-exchange [KLLM81].

shuffled [Iwa83]. **sign** [BM88].
signature [Car82, GMY83, OSS84].
Simple [Ron87, CD82, GR85, Lub85b, Mil84, TV86]. **simplex** [AM84].
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synchronous [AFL81, DT83, FL84].
system [Lyn80].
systems [AFL81, dBMOZ85a, BLS87b, Che81, CH81, DS89, GMR85, GS86, HV88, Huy85, Kos82, Llo80, PR85, dBMOZ85b].
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techniques [CV86, GBT84, VW84].
temporal [BKP84, EH82, Ger84, HS84a, SV89, SC82]. **term** [Che81].
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time-randomness [KPU88].
Time-space [Ja'80, Bea89, BC80].
Time-space-optimal [GS81].
time-stamp [DS89]. **times** [CRRS89].
tolerance [DPPU86, Fel85].
tolerant [BOW88, BS88, BFDS84, DHSS84].
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Topologically [EG86]. **topology** [KS89].
tossing [CV86]. **tradeoff** [Bea89, Blu84, BC80, KPU88, PU88, Yao82].
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transcendental [KLL84].
transfer [AUY83, Kil88].
transformations [JM85].
Transition [dBMOZ85a, Ger84, dBMOZ85b]. **Transitive** [Spi83, Tom80b].
translating [GY80]. **trapdoor** [BM88].
traversal [BRT89]. **traversing** [Ist88].
treatment [Iwa83, Pnu83].
tree [Awe87, BL82, FP80].
Trees [GH82, BO83, Ber86, Cla84, Cul85, Fre83, Har84, HVY81, JWR81, Kin81, MT82, Nis89, PRS81, ST81, ST83].
triangulating [TV86].
triangulations [STT86].
triconnectivity [MR87]. **trivalent** [FSS83].
truncated [HS85]. **Turing** [GKS86, ITT82, Maa84, MSS87, Sim81, Vit82].
twelfth [ACM80]. **twentieth** [ACM88].
twenty [ACM89]. **twenty-first** [ACM89].
Two [ABH⁺86, Ber86, DS87, DG82, DPGR83, ITT82, MSS87, PSS88, Tom80b, AM84, BDFP83, DG81, FadHRW85, LMR86, Mun87, VV85b, Vaz85].
Two-dimensional [ITT82].
two-processor [VV85b]. **two-way** [DG81].
typed [BL85]. **types** [GPS89].
Unary [KCV83]. **Unbounded** [CFL83a].
uncertainty [HMM85].
unconditionally [CD88].
undirected [BKRU89, SNS85].
unexpected [BJL⁺84].
Uniform [Kal86, dR84, dBMOZ85a, KL80b, Val89, dBMOZ85b].
union [BS85, GT83, LN88].
Unique [Che81, Iwa83, Bea89, VV85a].
Universal [NY89, VB81, BRT89, Ist88].
university [SS89]. **unprovability** [LN88].
update [ST84]. **updates** [Cul85].
updating [Fre83, FS84]. **upper** [VS85].
ups [GT88a, Vis84].
Using [AK88, HL89, RS89b, Vaz87, Yao80].
valence [FSS83]. **value** [Bus87].
Vapnik [BEHW86].
variables [Che81, HS85, LMR86].
Vector [Str80, Huy85, Kos82].
Vegas [MS82]. **Verifiable** [RBO89].
Verifying [KMK89].
Version [AK82, DG81, FP80, FJ80, Gre82, HS82, JWR81, JY80, Kos82, MT82, PKR82,

Pip80, Pip82, RS82, Sim81, PSS80, Tom80a].
versus [GS86, HSI83, SvEB84].
vertex [BYE82]. **via** [CW87].
Virtual [AC88].
VLSI [Agg85, ACR88, AUY83, BP84, Blu84, Car82, CM81, Kis82, Lei82, LM85, LS81, MS82, Mir84, Sie86, Yao81a].
Voronoi [AGSS87, GS83].

Washington [ACM84, ACM89].
way [DG81, Ger84, GL89, IR89, ILL89, KLD86, Lev85, NY89]. **weak** [JY81].
weight [Awe87]. **weighted** [SPR80].
which [HS80, Imm83, Lei82, Tom80b, Vai87].
White [Wil85, KS88a]. **whose** [AM84].
width [Bar86, BDFP83]. **wire** [Tom80a].
wire-routing [Tom80a]. **wiring** [DKS⁺81].
Wisconsin [ACM81]. **within** [PW89, RS81].
Work [KLMR89, BK89, GS88].
Work-preserving [KLMR89].
write [Bea86, Bop89, DMMU84, RS82].
write-once [DMMU84, RS82].

York [ACM87].

Zero [FFS87, BFM88, CK89, For87, GMS84, HMT88b]. **zero-knowledge** [BFM88, For87].
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