

# A Complete Bibliography of *ACM Transactions* *on Algorithms*

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## Title word cross-reference

$(\alpha, \beta)$  [BKMP10].  $(k, r)$  [DFHT05].  $(n - 1)$  [RW10a]. 1 [KN16]. 1.5 [KN16]. 2 [ERV16, Fuj12, GS17, GILP16, HCT<sup>+</sup>11, KN16, SS18]. 2.5545 [HCT<sup>+</sup>11]. 3 [CLL<sup>+</sup>12, Heg06].  $4k^2$  [Tho10a, Tho10b].  $H$  [VWY10].  $K$  [DM09, ABF<sup>+</sup>18, AMS06, BPR<sup>+</sup>17, Cha10b, CMVZ16, DKR16, DKN17, FHR07, FN10, GIN<sup>+</sup>17, GHNR10a, GHNR10b, HHL<sup>+</sup>16, HMS07, Lev09, Li17, PT16, RRS07, RZ12, WZ16].  $n$  [RW10a].  $O(\log n)$  [KK13].  $o(mn)$  [Cha12].  $O(n^2)$  [BS06a].  $O(n^{2.75})$  [AFM08].  $O(n^3)$  [GT08].  $O(n \log^2 n)$  [KMW10].  $O(n \log n)$  [BKM09b, BKM09a].  $O(nm)$  [KMMP07].  $O(VE)$  [DC05].  $P_6$  [LPV18].  $st$  [BSWN15, KW16b].  $t$  [DP06].

**-Approximation** [KN16, Fuj12, KK13]. **-ary** [DP06, RRS07]. **-center** [DFHT05]. **-clustering** [Lev09]. **-CSP** [GS17]. **-Cut** [BSWN15, KW16b]. **-d** [DM09]. **-Edge** [GILP16]. **-Facility** [ABF<sup>+</sup>18]. **-Forest** [DKN17, GHNR10a, GHNR10b]. **-free** [LPV18]. **-Independence** [PT16].

**-Median** [BPR<sup>+</sup>17, HHL<sup>+</sup>16, Li17]. **-Opt** [ERV16]. **-permutations** [RW10a]. **-restrictions** [AMS06]. **-Route** [CMVZ16]. **-server** [FN10]. **-set** [Cha10b, RW10a]. **-shredders** [Heg06]. **-Spanner** [DKR16]. **-spanners** [BKMP10]. **-subgraphs** [VWY10]. **-Submodular** [WZ16]. **-time** [KMW10]. **-traveling** [FHR07]. **-Walks** [SS18].

**0.8776-Approximation** [ABG16].

**1-center** [YLW08]. **1-median** [YLW08].

**2-gathering** [SZ10]. **2002** [Epp07]. **2007** [Gab09]. **2008** [HT10].

**3-approximation** [BPGN09].

**4-leaf** [BLS08].

**Access** [ARS<sup>+</sup>14, BJKK18, CKR12]. **accesses** [CFLM07]. **Achieving** [APF<sup>+</sup>10]. **Activation** [Fuk17]. **Acyclic** [HHM<sup>+</sup>18]. **Ad** [KMPS16]. **Adaptive** [CW16, GM12, MPV10]. **Addendum** [GT16a]. **Adder** [HS18]. **Additive** [BKMP10, RS11a]. **Adjusting** [Elm17]. **Admission** [AAG09]. **Adversarial** [CKR12, CDHW09]. **adversary** [AC10]. **Advertising** [AFH<sup>+</sup>16]. **affine** [GMT11]. **Agents** [DP14]. **aggregation** [BMSV<sup>+</sup>09]. **Agnostic** [Wim16]. **agreeable** [JLSS12]. **agreement** [KKK<sup>+</sup>10]. **Algebraic** [CLL14, Vig14]. **Algebras** [KW16a]. **Algorithm** [AKS17, AER15, CLL<sup>+</sup>12, CMV16, CJL17, CI17, DKN17, ERV16, FGK<sup>+</sup>16, HHL<sup>+</sup>16, KK13, KK16, KN16, MMS14, AFM08, And10, AMM07, AR06, BB09, Blä08, BS10, BD11, CCKR11, DC05, CCM10, CKS05, Cla10, CNP<sup>+</sup>11, DMRW09, DS08, Dji10, DV10, EK07, EPR10, EFKN09, Fuj12, HMS07, IM12, JZ06, KY13, Kau07, KMW10, RW09, VH05]. **Algorithmic** [AMS06, BCFN07, HS17]. **Algorithms** [ASW08, ABF<sup>+</sup>18, AMNS17, AFK<sup>+</sup>18, BGGN16, BBHT17, BKN14, BR14, BBT12, BCMMS12, CLL14, CMVZ16, CDHW09, CMY11, DHK16, DH18, DPS18, EFM<sup>+</sup>16, ELR<sup>+</sup>08, FLN14, FLPR12, GS17, GKM16, HH17, HKKK16, HL13, ISG07, KLP<sup>+</sup>16a, KLP16b, KMPS16, Lac13, LNR<sup>+</sup>14, LMS18, LRS18, MV15, NS16, RS17, SHHA16, Swa16, AAK06, AMR09, AF07, AA14, AR09, AGvS13, AKL10, AKR12, BCD12, BKS12, BAT11, BFK<sup>+</sup>12, BCM11, BF07, CPR<sup>+</sup>11, CMO<sup>+</sup>08, CMM09, CKP12, CJST07, DFHT05, DI06, DJP<sup>+</sup>12, EF12, Elk11, Epp06, FP10, FZ07, GS09, GKLT09, GKK<sup>+</sup>09, GHPT05, HSS07, Iba08, IMY10, JR05, KNS<sup>+</sup>07, MV08, MZ12, PU07, PR08, RSS06, SZ10, YLW08, CEGK11]. **All-Or-Nothing** [AFH<sup>+</sup>16]. **All-pairs** [Cha12, RS11a, MTZ10]. **Allocation** [AKS17, PS16, CCKR11, GN14]. **Allocations** [AMNS17]. **Almost** [AL13, DH18, CPL12, Elk05, FKW11]. **Alphabet** [BN14]. **Alphabet-Independent** [BN14]. **Alternating** [NRS18]. **Alternation** [BK08]. **amnesic** [GLPP08]. **among** [CW15, FKS08].

**Amortized** [GHT18]. **Analysis**

[BBHT17, ERV16, ER17, GHPT05, SCRS17, WNN15, AAY10, AR09, BK08, BAT11, DMM<sup>+</sup>12, DI06, DK12, EP05, Epp06, FBV09, GN14, GR10].

**analytic** [SSS<sup>+</sup>11]. **Analyzing** [CCW18]. **Anarchy** [GHLL16, DHMZ12].

**ancestor** [GRR06]. **Ancestors** [Gab17]. **annotated** [GGN06]. **Annotations**

[CCMT14]. **anonymity** [APF<sup>+</sup>10]. **Anonymous** [DP14, GMP17]. **any**

[FKW11]. **Application** [AFH<sup>+</sup>16, ARS<sup>+</sup>14]. **Applications**

[BR16, DHK16, HJT17, KMNS17, KW16a, Swa16, AAY10, AG10, AZ08, BB08, DMM<sup>+</sup>12, FGPS08, FGGV06, FSP08, NW07, RRS07, VWY10].

**applied** [BM08]. **Approach**

[BFGT16, Gab16, LMMW16, AAA<sup>+</sup>06, NW07, VB08]. **approximability**

[CGNS08]. **Approximate** [AEP18, AC10, AFK<sup>+</sup>15, BS06a, CW16, FJS14,

GMP05, GLNS08, HLS07, PP18, WY18, AKR12, BFG09, CSTW12, Vis08].

**Approximating**

[CLNV14, Das13, DKR16, FR10, GJL12, GGG10, HLS09, KR16, LMMW16, MR09, Mar10, Nut09, Nut12, Oum08, RT13, WY16, Man12].

**Approximation** [ABF<sup>+</sup>18, AMNS17, ABG16, BR14, BKM15, BPR<sup>+</sup>17,

CMVZ16, DHK16, DKN17, EFM<sup>+</sup>16, GKK<sup>+</sup>09, HKKK16, HHL<sup>+</sup>16, HL13,

IMY10, JR05, KK13, KK16, KN16, KW16b, KNS<sup>+</sup>07, MMS14, MV08,

NHK08, Swa16, BFKS14, BKLP07, BPGN09, Blä08, BKM09a, BKM09b,

CCKR11, CGR08, Cla10, DJP<sup>+</sup>12, DV10, EFKN09, Fuj12, HIMY07, JZ06,

Joh06, Kar08, Kar09, LDX09, RS09, SS08a, VH05, CPR<sup>+</sup>11].

**approximations** [FIM<sup>+</sup>06, Jac11, LM11]. **arbitrarily** [And09]. **Arbitrary**

[BCP13, EP12]. **arborescence** [DV10]. **arc** [GGN06]. **arc-annotated**

[GGN06]. **Archipelagos** [GRS17]. **architectures** [NW07]. **arrangement**

[NS10]. **arrays** [FGGV06, LK08]. **ary** [DP06, RRS07]. **Aspects**

[HS17, BCFN07]. **Assignment**

[AFH<sup>+</sup>16, BH12, MMS14, MS17, Soc16, CNP<sup>+</sup>11, HLS09, Jac11, LM11].

**asymmetric** [Blä08]. **Asymptotic** [HJT17, SS08a]. **Asymptotically**

[GIN<sup>+</sup>17, HS18]. **asynchronous** [KKK<sup>+</sup>10, KS08]. **asynchronously**

[CPL12]. **Atomic** [FKS08, CKK10a]. **auctions** [BLW09]. **Augmentation**

[MV15, Nut09, VB08]. **Augmenting** [KN16, EFKN09]. **automata** [AKL10].

**automaton** [CFI<sup>+</sup>08]. **Average** [AR08a, AR09, WNN15, IM12].

**Average-case** [AR08a, AR09]. **axis** [CKS09]. **axis-parallel** [CKS09].

**B** [FV16]. **B-Tree** [FV16]. **back** [LY08]. **backtracking** [Epp06]. **Balance**

[ABG16]. **Balanced** [AG10, HST15, LY08]. **Balancing**

[BHS14, EDKM07, GMP05]. **Balls** [DT16, AHPSW10]. **Bandwidth**

[CP12, BCFN07, EK06]. **bandwidths** [PRV11]. **based**

[AMM07, Cha10a, GN14, HMS12, MMS14, PU07]. **bases** [MM09]. **Basic**

[DKR16]. **basis** [NS09]. **batched** [AAY10]. **batching** [BNGK<sup>+</sup>09].

**Bayesian** [GM12]. **Being** [ABG16, FLM<sup>+</sup>12]. **Bend** [BRW16]. **Berlekamp**

[KY13]. **best** [FFM12, PUW08]. **best-response** [FFM12]. **Better**

[ABG16, BKN14, FG08, Kar09]. **between** [CCDL16, MA16]. **Beyond**

[Har16, Li17, WZ16, PRS12]. **BFS** [PP16, PP18]. **Biased** [ABG16]. **bichromatic** [AAK06, Cha10b]. **Biclustering** [HL13]. **biconnected** [PS10]. **Bicriteria** [RS09, FN10]. **bidders** [BCC<sup>+</sup>10]. **bifamilies** [Nut12]. **Bin** [EPR13, HCT<sup>+</sup>11, BNLT07, LK08]. **Binary** [HS18, STK16, BHMS11]. **Bipartite** [Lau06, GKK10]. **bipartiteness** [Epp09c]. **Bisection** [ABG16, SS09]. **bits** [PR08]. **Bivariate** [MA16]. **Black** [AHRT05]. **block** [FZ07]. **Boolean** [DHK16]. **Bootstrapping** [FCFM09]. **Bottleneck** [DS08]. **Bound** [Kra14, Soc16, HCT<sup>+</sup>11]. **Bounded** [ACGP16, CDJS17, EFF<sup>+</sup>15, LMS18, SHHA16, BEH<sup>+</sup>10, BHKK12, Dji10, KK06, MR09, MZ12, OGGW10, PRS12, Svi10]. **bounded-degree** [MR09]. **bounded-length** [KK06]. **Bounding** [FGPS08]. **Bounds** [BN15, CHGG<sup>+</sup>17, CGH17, DLS14, HH17, JW13, SCRS17, WY18, AR08a, AGvS13, BD11, CGK<sup>+</sup>11, Cha10a, CV07, FGPS08, GHKS08, MSS11, PU07]. **box** [AHRT05]. **branch** [GT08]. **branch-decomposition** [GT08]. **Branchings** [HHM<sup>+</sup>18]. **Breadth** [HKN17]. **Breadth-First** [HKN17]. **Broadcast** [BKN14, CEGK11, EK07, IM12]. **Budget** [EFF<sup>+</sup>15, RS09]. **Budgeted** [BPR<sup>+</sup>17]. **Buffer** [AER15, CR18, AKM08, CJST07, GS09, RS11b]. **buffering** [LK08]. **buy** [BKLP07]. **Bypassing** [GRSW16]. **Byzantine** [KKK<sup>+</sup>10].

**Cache** [CR18, FV16, FLPR12]. **Cache-Efficient** [CR18]. **Cache-Oblivious** [CR18, FV16, FLPR12]. **Cake** [EP11, SHHA16]. **Campaigns** [AFH<sup>+</sup>16]. **can** [BCM11]. **Capacitated** [Li17, BH12, ELR<sup>+</sup>08, HKRL07, JR05]. **capacities** [MV08]. **capacity** [AGG10]. **carpool** [CNP<sup>+</sup>11]. **Carry** [IP11]. **Case** [WNN15, AR08a, AR09, ADHY08, CFK<sup>+</sup>07, CV07]. **center** [ASW08, DFHT05, YLW08]. **centralized** [Elk11]. **Certification** [GT16a, GT16b]. **chairman** [CNP<sup>+</sup>11]. **changes** [CFH07]. **Channel** [BJKK18, CKR12, Soc16]. **channels** [AZ07]. **Cheeger** [KW16b]. **Cheeger-Type** [KW16b]. **chordal** [HSS07, Iba08]. **CIOQ** [AR06]. **Circuits** [HS18]. **circular** [NS10]. **classes** [FP10, GKLT09]. **Classical** [BBHT17]. **Classification** [GLS10]. **Claus** [AFS12]. **clique** [Oum08]. **clique-width** [Oum08]. **cliques** [II09]. **Clocks** [ANFS17]. **closest** [AKS08]. **Closure** [Epp18, Rod08]. **Clustering** [ABS10, GLS10, ZO08, APF<sup>+</sup>10, CGK<sup>+</sup>11, Epp09b, EV10, Lev09]. **CNF** [CDL<sup>+</sup>16]. **CNF-SAT** [CDL<sup>+</sup>16]. **Co** [Kra14]. **Co-Nondeterminism** [Kra14]. **coalitions** [FKS08]. **code** [KL06]. **Codes** [MN18]. **Coding** [CLL<sup>+</sup>12]. **Coin** [BBHT17]. **Collecting** [Fuk17, HKKN12]. **collections** [CHLS07]. **collective** [GLPP08]. **Color** [CLL<sup>+</sup>12]. **coloring** [BNCS08, CKS09, DKT11, HKS11, PRV11, SS08a]. **Colors** [DLS14]. **column** [Joh05, Joh06, Joh07, Khu05, Khu06, Khu07]. **combination** [GHPT05]. **Combinatorial** [EF12]. **Combinatorial** [AKS17, BST08, FGPS08, GM12, BCN12, FP10]. **combinatorics** [SSS<sup>+</sup>11]. **Common** [Gab17, CLLJ08, CKS05]. **Communication** [KR16]. **community** [ZO08]. **Compact** [AGM<sup>+</sup>08, BB08, KRX16, CSTW12]. **Compacting**

[CKL<sup>+</sup>09]. **Comparison** [Cha10a]. **Comparison-based** [Cha10a].  
**Comparisons** [AFHN16]. **Competitive**  
[AKM08, AER15, BAT11, GR10, LMMW16]. **completeness**  
[Joh05, Joh06, Joh07]. **completion** [GLP06]. **Complexity**  
[CBFWW15, Das13, DHM<sup>+</sup>14a, DHPR16, GJLS17, AK12a, BCMSM12,  
CEGK11, FLM<sup>+</sup>12]. **Component** [HKM<sup>+</sup>12]. **Components** [Lac13].  
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[CR18, MN18, FIM<sup>+</sup>06, PT11]. **computations** [FMS<sup>+</sup>10]. **Computing**  
[AFN<sup>+</sup>18, AMNS17, BF09, BCKV06, CW15, CMV16, Elk05, FGK<sup>+</sup>16,  
MA16, NZC11, RW10b, SS18, BB09, Dji10, EPR10]. **Concentration** [HH17].  
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**conflict** [BNCS08, CKS09]. **conflict-free** [BNCS08, CKS09]. **conflicting**  
[GHKS08]. **Congestion** [KK16, CKK10a, FFM12, FKS08, Swa12].  
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**Connectivity** [BK16, CHGG<sup>+</sup>17, Gab16, GILP16, KN16, MV15, CEGS11,  
CRV11, EFKN09, Kor10, Nut09, Nut12, VB08]. **Conquer**  
[GS17, HJT17, FGPS08]. **Consensus** [BBT12, CN14]. **consequence**  
[BGLZ09]. **Constant** [ATG<sup>+</sup>14, HHL<sup>+</sup>16, Jac11, AHRT05, VP07].  
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[BR16, CS11, EHR16, BMSV<sup>+</sup>09, DKK06]. **Constraint**  
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**Constructing** [GW07, Elk11]. **construction** [AMS06]. **Constructions**  
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**control** [AAG09, Hal12]. **Convergence** [CN14, EDKM07, GN14, FFM12].  
**Convex** [BRW16, CDD<sup>+</sup>15, BB09, CAY10, GJL12, MSS11]. **convolutions**  
[BF09]. **Coresets** [Cla10]. **correction** [AEL<sup>+</sup>12]. **Correlation** [BPR<sup>+</sup>17].  
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**Costs** [BRW16, ELR<sup>+</sup>08, ST10]. **Counting**  
[AFK<sup>+</sup>15, BCN12, BKK17, CW16, GRS17, GS17, WY18, AC10, BCEG07].  
**Cover** [DHK16, DKR16, ER16, INV16, KPR16, MMS14, AAG09, Fuj12,  
GKP08, HL06a, Kar09, Vis08]. **covered** [DC05]. **covering** [EKS05, HMS12].  
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[ADV<sup>+</sup>16, GHKS08]. **cross** [IMM08]. **cross-monotonic** [IMM08].  
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**Curved** [CW15]. **curves** [EP12]. **Cut**  
[BSWN15, CMVZ16, ER17, GHT18, KW16b, CKL<sup>+</sup>09, CGR08]. **cuts**  
[BEH<sup>+</sup>10, CKL<sup>+</sup>09, PT11]. **Cutting** [SHHA16, EP11]. **Cycle**  
[AEL<sup>+</sup>12, BFGT16, KW14, CDEM10, GN08, KNS<sup>+</sup>07, LDX09, MM09, PT11,  
RW10a, HKM<sup>+</sup>12]. **cycles** [Cab10]. **cyclic** [BS06b].

**d** [DM09, CLL<sup>+</sup>12, HCT<sup>+</sup>11]. **D-Matching** [CLL<sup>+</sup>12]. **DAGs** [GR10, HH17]. **Data** [CCMT14, Gab17, GKS<sup>+</sup>11, GIN<sup>+</sup>17, HMZ16, SCRS17, AKS08, ACY12, BCEG07, BB08, CFLM07, DIL07, GHKS06, GHKS13, GLS10, GKK<sup>+</sup>09]. **databases** [CFK<sup>+</sup>07]. **dates** [KKW12]. **deadline** [CCL<sup>+</sup>09, GLP06]. **deadlines** [JLSS12]. **deciding** [Kau07]. **Decision** [CPR<sup>+</sup>11, MTZ10]. **decoding** [AGKS07]. **decomposition** [AZ08, DMRW09, Epp09b, GT08]. **Decompositions** [KLP<sup>+</sup>16a, DC05]. **Decremental** [Lac13]. **Degeneracy** [CGH17, PRS12]. **degree** [BHKK12, MR09]. **Delaunay** [OGGW10]. **delay** [EK06]. **Delays** [FP13]. **Deletion** [CM15, STK16]. **Deletions** [ATG<sup>+</sup>14]. **demand** [CMS07, EK06]. **Dense** [ST08, And10]. **density** [KP08, ST08]. **dependent** [CRR09]. **Depth** [HS18]. **Derivative** [CDJS17]. **descent** [AKR12]. **Design** [BK16, AZ08, CKK10b, CGNS08, EKS05, JR05, KSS09]. **Despite** [DPP14, AC10]. **Detection** [BFGT16, AEL<sup>+</sup>12, HKM<sup>+</sup>12]. **Determining** [AR08b]. **Deterministic** [BCEG07, BNCS08, CI17, DP14, Lac13, LMPS18, NS16, TSZ14, MTZ10, Ruž08, Ruž09]. **deterministically** [KS08]. **Diagrams** [DHPR16]. **Dial** [GNR15, GHNR10a, GHNR10b]. **Dial-a-Ride** [GNR15]. **Diameter** [Sol13, WY16]. **dictionaries** [BB08, FGI09, RRS07, Ruž08]. **differ** [EK06]. **different** [Jan05]. **difficulty** [HSB07]. **Digraphs** [HHM<sup>+</sup>18, CRV11]. **Dilworth** [HHM<sup>+</sup>18]. **Dimension** [ACGP16, KRX16, CGK<sup>+</sup>11]. **Dimensional** [AEP18, CHLT14, WY18, GLS10, NS09]. **Dimensionality** [CJ18]. **dimensions** [FR10]. **Directed** [CCHM15, GILP16, BD11, CEGS11, EPR10, GN08, HKRL07, KMW10, NS10, RTZ08, RZ12, VB08]. **Discontinuity** [CCW18]. **Discounted** [MTZ10]. **Discovering** [FKW11, GRS17]. **Discrepancy** [EPR13]. **Discrete** [AFK<sup>+</sup>15, NW07]. **Disjoint** [KK13, KK16, CK07, CS07, DS11, GW07, ZO08]. **disks** [CKS09, GKK<sup>+</sup>09]. **displacements** [Jan05, Vio05]. **Disposal** [SHHA16]. **Dissections** [FSP08]. **Distance** [ACGP16, AFN<sup>+</sup>18, AFK<sup>+</sup>15, EP16, MA16, WY13, ABS10, AHPSW10, AK12a, BS06a, CSTW12, CW10, CM07, DMRW09, FR10, GLNS08, HPR14, MR09]. **distances** [GMV09]. **distinct** [KKW12]. **distortion** [Pet09]. **Distributed** [AKR12, AKPS10, BHS14, BJKK18, GKP08, KMPS16, SCRS17, CMY11]. **distributing** [FMS<sup>+</sup>10]. **Distribution** [HS17, BH12, CRV11, Vio05]. **Distributional** [WNN15, CDHW09]. **Distributions** [CDJS17]. **Divergent** [GT16a, GT16b]. **Diversification** [BJLY17]. **Divide** [HJT17]. **Divide-and-Conquer** [HJT17]. **Dividing** [HJT17]. **DNA** [KSS09]. **Domains** [Wim16, OGGW10]. **dominance** [BST08, Epp09a]. **Dominating** [FLST18, GS17, FGPS08, GKLT09, PRS12]. **Domination** [LPV18]. **Dominator** [GT16a, GT16b]. **Dotted** [ALM<sup>+</sup>12]. **Doubling** [ACGP16, CGMZ16, CJ18, KRX16]. **Drawing** [BRW16]. **drawings** [BLPS13]. **Dual** [AD16, DH18, WNN15, BCM11, VB08]. **Dual-Pivot** [AD16, WNN15]. **due** [KKW12]. **Dynamic** [ALLS07, ANFS17, BCC<sup>+</sup>10, BJLY17, CN14, HKN17, KP08, MN08, NS14,

NS16, RST14, Tao14, AKS08, AHTL05, BKS12, CHLS07, DI06, Elk11, Epp09a, GK09, Iba08, LK08, Rod08]. **dynamics** [FFM12].

**ear** [DC05]. **Easy** [KPR16]. **Edge** [BK16, CK07, GILP16, GM14, KK13, KK16, KN16, MV15, EFKN09, HKS11, MZ12, SS08a]. **Edge-Connectivity** [KN16, MV15, EFKN09]. **Edge-Disjoint** [KK13, KK16, CK07]. **edit** [AK12a, CM07, DMRW09]. **Editor** [Gab05]. **Editorial** [Alb10a, Alb10b, APP17, RRSW16, Buc08]. **effectiveness** [Swa12]. **Efficient** [AAK06, CR18, DH18, FGK<sup>+</sup>16, LPV18, MN18, SZ10, AAY10, AF07, ADHY08, MZ12]. **efficiently** [AGKS07, BKLP07, CAY10, Heg06]. **Election** [ARS<sup>+</sup>14, GMP17, KKK<sup>+</sup>10]. **element** [CS07]. **element-disjoint** [CS07]. **Elimination** [YB12]. **Embedded** [ADF<sup>+</sup>15, Cab10]. **Embedding** [BR16, LDX09]. **Embeddings** [AEP18, CGR08, ABD<sup>+</sup>08, CMO<sup>+</sup>08, IN07]. **encoding** [FSP08, RRS07]. **Encodings** [GIN<sup>+</sup>17]. **End** [KMPS16]. **End-to-End** [KMPS16]. **Energy** [AF07, DH18, BCD12, CCL<sup>+</sup>09]. **Energy-Efficient** [DH18, AF07]. **entity** [CPR<sup>+</sup>11]. **Entropy** [CDI<sup>+</sup>12, PU07, AMM07, CCM10, GMV09, MN08]. **Entropy-based** [PU07, AMM07]. **entropy-compressed** [MN08]. **Enumeration** [II09]. **Enumerative** [HS17]. **Envy** [SHHA16]. **Envy-Free** [SHHA16]. **equal** [GP08, IMY10]. **equal-length** [GP08]. **equals** [FGGV06]. **equations** [Epp06]. **Equilibria** [FGK<sup>+</sup>16, BCKV06, CV07]. **Equilibrium** [Das13, EDKM07]. **equitable** [CAY10]. **equivalence** [Kau07]. **erg** [PUW08]. **Error** [JW13, AKPS10, RS11a]. **Essentially** [KPR16]. **estimating** [CCM10]. **estimation** [GMV09]. **Euclidean** [BKM15, CS08, Sol13]. **Eulerian** [FLM<sup>+</sup>12, KK13]. **Evaluation** [DHK16]. **Even** [CP12]. **everywhere** [CPL12]. **evolution** [FBV09]. **Exact** [AFK<sup>+</sup>18, CP12, GHT18, HJT17, Vio05, BFK<sup>+</sup>12]. **Excluded** [FLST18, LR15]. **excluding** [RW09]. **Expansion** [CLL<sup>+</sup>12, PR12]. **Expected** [DHPR16, BS06a]. **Experimental** [DI06]. **Experiments** [FGGV06]. **explicit** [RW10a]. **Exploration** [DP14, TSZ14, AGP<sup>+</sup>11, CFI<sup>+</sup>08, DKK06]. **Exponential** [ANFS17, DHM<sup>+</sup>14a, FP13, GKLT09, KLP<sup>+</sup>16a]. **exponentially** [PR08]. **expression** [BFG09]. **extended** [HPR14]. **extension** [GN14, KMMP07]. **extensions** [BHZ13]. **external** [CFLM07, LK08]. **extreme** [GGM10].

**face** [DS11]. **Facility**

[ABF<sup>+</sup>18, ANFS17, KS16, ST10, BH12, Fot11, FS11, MV08, Svi10, SS08b]. **Factor** [HHL<sup>+</sup>16, Jac11]. **Fair** [AKS17, PS16, GMP05, GN14]. **Families** [FLPS17, GKM16, AG10]. **family** [ASS08]. **Fan** [HS18]. **Fan-Out** [HS18]. **Fast** [AL13, BHK<sup>+</sup>16, CN14, CJL17, ES16, KKK<sup>+</sup>10, PT11, WY13, YZ05, BS10, BD11, KSS09, RW10b]. **Faster** [BKK17, CMV16, CD17, CP12, FLN14, FZ07, GS17, Jez15, Kar08, KLP16b, LNR<sup>+</sup>14, RSS06, BG11, Dji10, Rod08, TM08, MM09]. **father** [SSS<sup>+</sup>11]. **Fault** [HHL<sup>+</sup>16, PP16, PP18, SS08b]. **Fault-Tolerant**

[HHL<sup>+</sup>16, PP16, PP18, SS08b]. **Feedback**  
[CCHM15, LRS18, RSS06, Tho10a, Tho10b]. **Few** [BHK<sup>+</sup>16, GW07]. **fewer**  
[PR08]. **FFT** [GKM16]. **FIFO** [And09]. **fil** [KMM11]. **fillup** [JS07]. **filter**  
[CDHW09, DH12]. **Find** [ATG<sup>+</sup>14, AAY10, RW09]. **Finding**  
[ALLT11, CDEM10, Cab10, CAY10, GN08, Heg06, HMS07, MOR13, VWY10,  
And10, RSS06, Joh07]. **finite** [BCN12, CFI<sup>+</sup>08]. **First** [HKN17, EP05]. **Fit**  
[CCDL16]. **Fixed** [BBT12, CM15, CCHM15, DFHT05, DHM14b, MV15,  
DJP<sup>+</sup>12, EKS05, KKW12, RSS06, CGK<sup>+</sup>11]. **Fixed-Parameter**  
[BBT12, CM15, CCHM15, DHM14b, MV15, DFHT05, CGK<sup>+</sup>11]. **Flajolet**  
[SSS<sup>+</sup>11]. **flash** [BAT11]. **flexible** [AR05]. **Flip** [BBT12]. **flow**  
[AF07, AKR12, AGG10, BD07, BFKS14, BKMSS11, CMS07, EF12, GMT11,  
HL06b, IM12, Kar08, TM08]. **flows** [BEH<sup>+</sup>10, EKS05]. **For-All** [GLPS17].  
**Forbidden** [ACGP16, GJLS17]. **Forbidden-Set** [ACGP16]. **Forest**  
[BKM15, DKN17, GHNR10a, GHNR10b]. **Foreword**  
[CRR13, Epp07, Gab09, HT10, LOM06, Mat10, Gab05]. **formulation**  
[CKL<sup>+</sup>09]. **Foundations** [FJS14]. **Fourier** [MRR06]. **FPT** [BD11]. **FPTAS**  
[KKW12]. **Fractional** [GM14, CKK10b, Kar08, Mar10]. **Framework**  
[Har16, AKR12]. **Frank** [Cla10]. **Fréchet** [AFK<sup>+</sup>15, CW10, HPR14]. **Free**  
[GHLL16, KRX16, SHHA16, BNCS08, CKS09, DKT11, LPV18, Saw06].  
**Frugal** [AT07]. **full** [FMMN07, KKK<sup>+</sup>10, MN08]. **full-text**  
[FMMN07, MN08]. **Fully**  
[BKS12, Iba08, Jez15, NS14, NS16, AHTL05, Elk11, Rod08, RNO11].  
**Function** [BCP13, DHK16, DP06, SS09]. **Functional** [NS14, CMY11].  
**Functions** [BJLY17, CD17, Fel17, MA16, WZ16, AG10, GMT11, Vig14].

**galled** [MSS11]. **Galois** [AK12b]. **Game** [EFF<sup>+</sup>15, BCKV06]. **games**  
[CKK10a, DHMZ12, FFM12, FKS08, GMT11, Swa12]. **Gap** [FP13]. **gas**  
[KMM11]. **Gasoline** [NRS18]. **Gathering** [DPP14, BKMSS11, RS11b, SZ10].  
**General** [DPS18, ES16, EP16, ERV16, AAA<sup>+</sup>06, JZ06, MR09, ABD<sup>+</sup>08].  
**Generalization** [BR14, HHM<sup>+</sup>18, CF05]. **generalizations** [VB08].  
**Generalized** [AFH<sup>+</sup>16, CGR08, HL06a, Lev09]. **generate** [BS10].  
**Generating** [BBHT17, Saw06]. **Generic** [MRR06]. **genus** [Dji10].  
**Geodesic** [CW10, OGGW10]. **Geometric**  
[CGK<sup>+</sup>11, GRSW16, Vig14, BCEG07, BCH<sup>+</sup>12, CCHP12, Epp09c, GLNS08].  
**Getting** [PUW08]. **Girth** [DKR16, RT13, Dji10]. **Gives** [DH18, CFR10].  
**Good** [ADK16, CFR10, Kol08]. **Graph** [BRW16, Gab16, KN16, BKS12,  
BLPS13, CFI<sup>+</sup>08, DFR09, DKK06, EFKN09, GKLT09, RW09, SS09, Wil10].  
**Graphs** [ACGP16, ADF<sup>+</sup>15, BSWN15, BK16, CR18, CGH17, DHK14,  
DPS18, ES16, EP16, FLST18, GILP16, KK13, LR15, LPV18, LMS18, WY16,  
AS07, ALM<sup>+</sup>12, ASS08, BFKS14, BS06a, BHKK12, BKM09a, BKM09b,  
BGPV08, BHLR10, Cab10, DC05, Cha12, CEGS11, CSTW12, DS11,  
DFHT05, Dji10, DKT11, EPR10, Epp09a, Epp09c, GKK10, GT08, HKRL07,  
HSS07, Iba08, KMW10, KP08, KK06, Lau06, MR09, MZ12, PS10, PRV11,  
PRS12, RTZ08, RZ12, RST14, VWY10, VH05, YB12]. **Gray** [KL06, MN18].



**greedy** [CKS05, Cla10, CNP<sup>+</sup>11, FP10, GR10, RS11b]. **Gromov** [AFN<sup>+</sup>18]. **Group** [DHK14, KW16a]. **groups** [AMR09, AK12b]. **guarantees** [BST08]. **Guarding** [AFK<sup>+</sup>18]. **Guessing** [AGKS07]. **Guest** [Buc08]. **guided** [CFI<sup>+</sup>08].

**Hadamard** [CI17]. **Half** [HJT17]. **halfplanes** [CKS09]. **Hanoi** [ASS08, BS06b, DS08]. **Hard** [CDL<sup>+</sup>16, GKM16, BH12, Vis08]. **hard-capacitated** [BH12]. **Hardness** [CMVZ16, DKR16, CPR<sup>+</sup>11, KNS<sup>+</sup>07, KM12]. **hash** [AG10]. **hashing** [DK12, Jan05, Vio05]. **Haste** [SHHA16]. **Hausdorff** [AHPSW10, AFN<sup>+</sup>18]. **haystacks** [Joh07]. **Heap** [CR18]. **Heaps** [Elm17, HKTZ17, KT08]. **heaviest** [VWY10]. **hidden** [FKW11]. **Hierarchical** [CGMZ16, LK08, ST10]. **High** [AEP18, FR10, GLS10]. **High-Dimensional** [AEP18, GLS10]. **Hitting** [GJLS17]. **Hoc** [KMPS16]. **Hollow** [HKTZ17]. **hop** [FCFM09]. **hop-optimal** [FCFM09]. **hospitals** [KMMP07]. **hospitals-residents** [KMMP07]. **hotlink** [Jac11, LM11]. **Hub** [BGGN16]. **hulls** [BB09]. **Hunts** [TSZ14]. **hyperbolic** [Epp09b]. **hypergraph** [AFS12, LDX09]. **hypertree** [Mar10].

**I/O** [AAY10, MZ12]. **I/O-efficient** [AAY10, MZ12]. **identical** [GP08]. **identification** [CPR<sup>+</sup>11]. **idle** [AA14]. **IDs** [DLS14]. **II** [AAHP<sup>+</sup>16]. **Im** [BCKV06]. **Images** [RT14]. **impatient** [BCC<sup>+</sup>10]. **Implementation** [BBHT17, HMS07]. **Imprecise** [AFHN16]. **Improved** [AER15, BFG09, BBT12, BPR<sup>+</sup>17, CJ18, CMO<sup>+</sup>08, CKP12, CLL<sup>+</sup>12, CJST07, DKN17, EFM<sup>+</sup>16, GS09, GHKS06, GHKS08, HIMY07, HSS07, KK16, LM11, Lac13, Swa16, YLW08, AR06, CCKR11, CGR08, EK07, BKLP07, GHKS13]. **Inapproximability** [GRSW16, KS16]. **inclusion** [BG11]. **incomplete** [GLS10]. **Incremental** [BFGT16, GHT18, HKM<sup>+</sup>12, AFM08]. **Independence** [LPV18, PT16]. **Independent** [BN14, AGM<sup>+</sup>08, Epp09a]. **index** [FV10]. **indexable** [RRS07]. **indexes** [BHMS11, BCH<sup>+</sup>12, CHLS07, FMMN07, MN08]. **Indexing** [BN14, BFG<sup>+</sup>16, FGGV06]. **Individual** [Jan05, Vio05]. **Induce** [FP13]. **inequality** [BGLZ09, Blä08]. **Infants** [GKM16]. **infeasible** [BST08]. **infinite** [ASS08]. **Information** [GMP17, AHTL05, BCKV06, CFK<sup>+</sup>07, EF12, GMV09, KKK<sup>+</sup>10, RS11b, MNS12]. **Injecting** [BLW09]. **insertion** [AHR05, Jan05]. **Instability** [And09]. **Instances** [DKR16, Vis08]. **integer** [CMS07, CLLJ08]. **interchanges** [FZ07]. **intersection** [BK08, Epp09c]. **Interval** [CM15, EHR16, ALM<sup>+</sup>12, BHLR10, PRV11]. **intervals** [BNCS08]. **Introduction** [GBFC07]. **Invariant** [Wim16]. **Inverse** [BLW09, NZC11]. **Irreducibles** [BHK<sup>+</sup>16]. **Ising** [SS09]. **isolated** [II09]. **Issue** [CRR13, RRSW16, Epp07, GBFC07, Gab09, HT10, Mat10]. **Iterative** [CLL<sup>+</sup>12].

**Jitter** [HS09]. **jobs** [DJP<sup>+</sup>12, GHKS08, GP08]. **Johnson** [AL13, JW13].

**joint** [ELR<sup>+</sup>08]. **Jump** [CCW18].

**Kernel** [BRFF<sup>+</sup>12, CGH17, KW14, KPR16, Tho10a, Tho10b].

**Kernelization** [DLS14, GJLS17, Kra14]. **Kernels**

[FLST18, KLP<sup>+</sup>16a, PRS12]. **keys** [BB08]. **Kinetic** [AKS08]. **Knapsack**

[DHK16, GNR16, Swa16]. **Known** [LMS18, CRV11]. **Knuth** [BGLZ09].

**Label** [BGGN16, CFI<sup>+</sup>08, DKR16, MMS14]. **Label-guided** [CFI<sup>+</sup>08].

**Labeling** [Kor10]. **Labels** [ACGP16]. **Large** [DKR16, AGG10, RW10b].

**Latency** [BMSV<sup>+</sup>09, INV16, GMT11]. **Latency-constrained** [BMSV<sup>+</sup>09].

**lattice** [NS09]. **Lattices** [BHK<sup>+</sup>16]. **law** [CSTW12]. **layouts** [BGPV08]. **LC**

[JS07]. **Leader** [ARS<sup>+</sup>14, GMP17, KKK<sup>+</sup>10]. **leaf** [BLS08, DV10, BD11].

**Learning** [Wim16]. **least** [Kol08]. **leaves** [BRFF<sup>+</sup>12]. **left** [DMM<sup>+</sup>12].

**left-to-right** [DMM<sup>+</sup>12]. **Lemma** [HH17, Har16]. **Lempel** [BFG09].

**Length** [BEH<sup>+</sup>10, BB08, GP08, KK06]. **Length-bounded** [BEH<sup>+</sup>10].

**lengths** [KMW10, MZ12]. **Leontief** [GN14]. **level** [GRR06]. **level-ancestor**

[GRR06]. **Levels** [MN18]. **Liars** [Sha16]. **Lightweight** [ES16]. **Limitations**

[IMM08]. **limited** [KKM11]. **Limits** [KW16a, Joh06]. **Lindenstrauss**

[AL13, JW13]. **Line** [KPR16, BFKS14, GS09, RS11b]. **Linear**

[BPGN09, BSWN15, CLL14, EP16, HS18, KLP<sup>+</sup>16a, LNR<sup>+</sup>14, LMPS18,

LRS18, MA16, PT16, RS17, WY16, BB09, BG11, BLS08, CKK10a, CKL<sup>+</sup>09,

DKT11, EPR10, FP10, GHPT05, Jan05, KMW10, MOR13, NZC11, RW09,

VH05, Vio05]. **Linear-Size** [EP16]. **linear-space** [KMW10]. **Linear-Time**

[RS17, BLS08, RW09, VH05]. **Lines** [DT16, BB09, GLS10]. **Link**

[CBFWW15]. **Linking** [Gab17]. **links** [GW07]. **list** [AGKS07, AGvS13].

**Load** [ABF<sup>+</sup>18, BHS14, GPSS15, EDKM07, GMP05]. **loads** [And09]. **Local**

[DP14, ER17, HH17, Har16, PS16, And10, BCM11, KP08, LK08]. **local-ratio**

[BCM11]. **Location** [ABF<sup>+</sup>18, ANFS17, Cha13, KS16, AGG<sup>+</sup>09, AMM07,

BH12, BCH<sup>+</sup>12, CDI<sup>+</sup>12, Fot11, FS11, MV08, ST10, Svi10, SS08b].

**Logarithmic** [EP16, AGP<sup>+</sup>11, BFKS14]. **long** [GN08]. **longest** [EP05].

**loopless** [KL06]. **Lopsided** [Har16]. **Lopsidedependency** [Har16]. **losing**

[KM12]. **lot** [ELR<sup>+</sup>08]. **Lovász** [HH17, Har16]. **Low**

[KRX16, NS09, KP08, Pet09]. **Low-dimensional** [NS09]. **Lower**

[BN15, DLS14, Kra14, SCRS17, Soc16, Svi10, AR08a, AGvS13, CGK<sup>+</sup>11,

Cha10a, MSS11]. **Lower-bounded** [Svi10]. **LP**

[CCW18, HKS11, Li17, MMS14]. **LP-based** [MMS14]. **LZW** [Gaw13].

**Machine** [HJ15]. **machines** [CKK10b, GP08, GLP06, TM08]. **maiden**

[EP05]. **Maintaining** [AHTL05, Elk11]. **Maintenance** [HKN17, HKM<sup>+</sup>12].

**majorization** [GMP05]. **Makes** [SHHA16]. **Makespan** [GNR15]. **Making**

[Ruž09]. **malleable** [JZ06]. **Management** [AER15, AKM08, CJST07].

**many** [BRFF<sup>+</sup>12, Joh06]. **map** [DFHT05]. **Mapping** [CDD<sup>+</sup>15]. **Market**

[FGK<sup>+</sup>16]. **Markov** [FBV09, MTZ10]. **marriage** [HIMY07, IMY10]. **mask**

[BF09]. **Massey** [KY13]. **MAST** [BPGN09]. **Matching**

[BG14, CCW18, CLL<sup>+</sup>12, CHLT14, DPS18, FLN14, Gaw13, Jez15, NS16, ALLS07, BFG09, DC05, CS11, CM07, GGN06, HLS07]. **matching-covered** [DC05]. **matchings** [AFS12, GKK10, GKP08, IKM<sup>+</sup>06, KMMP07, KR16, Mes14, RW10b, VH05]. **Matrices** [DHS16, KMNS17, KLP16b]. **Matrix** [WY13, KY13, YZ05]. **Matroid** [CLL14, GNR16, Swa16]. **Matroids** [KW14, LMPS18]. **Max** [AKS17, ABG16, BR14, BJLY17, PRV11, PS16, BD11, GS17]. **Max-coloring** [PRV11]. **Max-Leaf** [BD11]. **Max-Min** [PS16]. **Max-Sum** [BJLY17]. **maxima** [DMM<sup>+</sup>12]. **Maximal** [NS16, PS10, Epp09a, GKP08, IKM<sup>+</sup>06]. **maximin** [AMNS17]. **maximization** [BNGK<sup>+</sup>09]. **Maximizing** [Fel17, GPSS15, MS17, WZ16]. **Maximum** [ER17, KMNS17, MMS14, CMM09, DV10]. **Maximum-Cut** [ER17]. **MaxMin** [GNR16]. **may** [EK06]. **mean** [HL06b]. **meanders** [BS10]. **meandric** [BS10]. **Measure** [GS17, AZ08, FGPS08]. **measures** [ABS10]. **Mechanism** [CKK10b]. **mechanisms** [AT07]. **Median** [BPR<sup>+</sup>17, HHL<sup>+</sup>16, Li17, Swa16, YLW08]. **Medium** [ARS<sup>+</sup>14]. **Meet** [BKK17, CPL12]. **Meet-in-the-Middle** [BKK17]. **meets** [AFS12]. **Melding** [MTTZ06]. **Memory** [FP13, AKM08, AGP<sup>+</sup>11, AC10, BAT11, CFLM07, GLPP08, KKM11, LK08]. **Memoryless** [Fot11]. **mergeable** [GKS<sup>+</sup>11]. **mesh** [FSP08]. **methods** [BCN12]. **Metric** [AFN<sup>+</sup>18, ABS10]. **Metrics** [CGMZ16, CJ18, CGR08, GS09]. **Middle** [BKK17, MN18]. **migration** [GHKS06, GHKS13]. **Min** [AKS17, BR14, BSWN15, DHK16, GHT18, PS16]. **Min-Cut** [GHT18]. **Min-Knapsack** [DHK16]. **Min-Max** [BR14]. **minima** [BLW09]. **minimal** [FGPS08]. **Minimization** [HL13, AF07]. **minimize** [AAG09, EK06, TM08]. **Minimizing** [BD07, BKMS11, DHM<sup>+</sup>09, DHM14b, FS11, GLP06, HL06b]. **Minimum** [ABF<sup>+</sup>18, BBT12, GPSS15, GNR15, HS18, INV16, MV15, MM09, AGM<sup>+</sup>08, ABD<sup>+</sup>08, BCD12, CKL<sup>+</sup>09, CLLJ08, CKS05, CS08, Fuj12, GKLT09, HL06a, HLS09, JR05, KKW12, Lev09, Nut12, PR08]. **Minimum-Cost** [MV15, Nut12]. **Minimum-Flip** [BBT12]. **Minimum-Load** [ABF<sup>+</sup>18]. **minmax** [YLW08]. **minmax-regret** [YLW08]. **Minor** [LR15, RW09]. **Minors** [FLST18, GJLS17]. **Minset** [Gab16]. **Minset-Poset** [Gab16]. **minsum** [GHKS08]. **Minwise** [PT16]. **Mischief** [DPP14]. **mobile** [FS11]. **Model** [AN16, CMR18, And09, FCFM09]. **models** [AR05, FBV09]. **Modern** [BBHT17]. **moments** [LK08]. **Monge** [KMNS17]. **monitoring** [CMY11]. **Monotone** [BJLY17]. **monotonic** [IMM08]. **monotonicity** [BGLZ09, FR10]. **Morphing** [BLPS13]. **Moser** [Har16, HS17]. **motif** [FKW11]. **Movement** [DHM14b, HKKK16, DHM<sup>+</sup>09, FS11]. **moves** [CM07]. **moving** [Kol08]. **MST** [Fuj12]. **Multi** [ADK16, GNR15, BS06b, CRR09]. **multi-peg** [BS06b]. **Multi-Pivot** [ADK16]. **multi-scheduling** [CRR09]. **Multi-Vehicle** [GNR15]. **multicast** [CRR09]. **multicasting** [AR05]. **Multicommodity** [CMS07, AKR12, BKLP07, Kar08]. **multicover** [CCHP12]. **multicriteria**

[Man12]. **Multicuts** [RS17]. **Multidimensional** [YZ12]. **multigraph** [SS08a]. **multigraphs** [HKS11]. **multihop** [AZ07]. **multilabeled** [BHMS11]. **Multilevel** [KS16]. **Multipartite** [EJK08]. **multiparty** [FIM<sup>+</sup>06]. **Multiple** [BJKK18, CKR12, BHLR10, FKW11, HS09, VP07]. **multiple-interval** [BHLR10]. **Multiplication** [WY13, IP11, VP07, YZ05]. **Multiplierless** [VP07]. **multisets** [RRS07]. **multivariate** [Epp06].

**name** [AGM<sup>+</sup>08]. **name-independent** [AGM<sup>+</sup>08]. **Nash** [Das13, EDKM07]. **Natural** [Li17]. **Near** [BSWN15, CMM09, GLPS17, WY16, CCM10, EPR10]. **Near-Linear** [BSWN15]. **near-linear-time** [EPR10]. **Near-Optimal** [GLPS17, CMM09, CCM10]. **Nearest** [AAHP<sup>+</sup>16, AEP18, Gab17, IN07, AKS08]. **Nearest-Neighbor** [AAHP<sup>+</sup>16]. **Nearest-neighbor-preserving** [IN07]. **Nearly** [CI17, DKN17]. **needles** [Joh07]. **negative** [CGR08, KMW10]. **negative-type** [CGR08]. **Neighbor** [AAHP<sup>+</sup>16, AEP18, IN07]. **Neighborhoods** [CJ18]. **neighbors** [AKS08]. **nested** [Kau07]. **Network** [BK16, DP14, EFF<sup>+</sup>15, Fuk17, GHLL16, AR05, AAA<sup>+</sup>06, And09, AZ08, CEGS11, CGNS08, DHMZ12, EKS05, FCFM09, HKKN12, JR05, Swa12]. **Networks** [BHS14, CN14, CLNV14, HKN17, KRX16, KMPS16, AZ07, AGG10, BH12, BMSV<sup>+</sup>09, MSS11, NHK08, PR12]. **nilpotence** [AK12b]. **No** [FG08, BRFF<sup>+</sup>12]. **Node** [CCW18, DHK14, HKRL07, RS09]. **node-capacitated** [HKRL07]. **node-cost** [RS09]. **Node-Weighted** [CCW18, DHK14]. **nonabelian** [AMR09]. **nonavailability** [DJP<sup>+</sup>12]. **Nondecreasing** [Wil10]. **Nondeterminism** [Kra14]. **Nonlinear** [HJ15]. **nonmetric** [ABS10]. **Nonmonotone** [ADV<sup>+</sup>16]. **nonpreemptive** [GP08]. **nontrivial** [KS08]. **note** [Alb10a, AHRT05, Alb10b]. **Nothing** [AFH<sup>+</sup>16]. **Novel** [NW07]. **NP** [GKM16, Joh05, Joh06, Joh07]. **NP-completeness** [Joh05, Joh06, Joh07]. **NP-Hard** [GKM16]. **number** [CFR10, KKW12, KS08]. **Numerical** [KLP16b].

**O-efficient** [AAY10, MZ12]. **Oblivious** [BFCF<sup>+</sup>17, CCW18, CR18, FV16, FLPR12, HKRL07]. **Obstacles** [CW15]. **occurrences** [BCN12]. **Odd** [KW14]. **off** [DFR09]. **offline** [BNCS08]. **one** [CDEM10, Fot11]. **Online** [BJKK18, CKS09, DH18, EV06a, GP08, JLSS12, KB06, LMMW16, MNS12, AAA<sup>+</sup>06, AAG09, AKL10, BNCS08, BF07, CCL<sup>+</sup>09, CJST07, CNP<sup>+</sup>11, EV10, GS09, GMP05, IM12, PU07, PRV11, YZ12, HCT<sup>+</sup>11, LK08]. **open** [BS10, GHKS06, GHKS13]. **Opt** [ERV16]. **optical** [AZ08]. **Optimal** [AL13, AGvS13, AD16, BN15, BRW16, CDJS17, CI17, DH18, DKK06, Elm17, Gaw13, GLPS17, GIN<sup>+</sup>17, GT08, GRSW16, Han07, JW13, LMS18, LMMW16, ADHY08, CCM10, CMO<sup>+</sup>08, CMM09, DMRW09, FCFM09, FSP08, GK09]. **Optimality** [DS08, CNP<sup>+</sup>11]. **Optimally** [EK06, KS08, TM08, Wil10]. **Optimization** [BGGN16, BHLR10, BPR<sup>+</sup>17, GM12, GNR16, AAA<sup>+</sup>06, GJL12, Vig14, MNS12]. **Optimizing** [CCL<sup>+</sup>09]. **Oracle**

[BSWN15, EP16, LR15, CSTW12]. **Oracles** [KK06, WY13, BS06a, GLNS08]. **Order** [HL13, BF07, BM08]. **Order-Preserving** [HL13]. **Ordering** [BR16, CFR10, AFM08, CDHW09, DH12, KB06, HKM<sup>+</sup>12]. **Ordinal** [ABD<sup>+</sup>08, GRR06, HMS12]. **orientations** [FLM<sup>+</sup>12, FSP08]. **orienteeing** [CKP12]. **Orthogonal** [BRW16, Cha13, CW16, BLPS13]. **out-trees** [BRFF<sup>+</sup>12]. **output** [ST08]. **output-density** [ST08].

**P2P** [NW07]. **Packet** [KMPS16]. **packets** [JLSS12]. **Packing** [CS07, EPR13, BNLT07, CMS07, KNS<sup>+</sup>07, HCT<sup>+</sup>11]. **Packings** [BKK17]. **pair** [AKS08]. **pairs** [Cha12, DI06, MTZ10, RS11a]. **pairwise** [GW07]. **pants** [Epp09b]. **Parallel** [DH12, HH17, CKS09, GKK<sup>+</sup>09, Han07]. **Parameter** [BBT12, CM15, CCHM15, DHM14b, MV15, DFHT05, RSS06, CGK<sup>+</sup>11]. **Parameterized** [CHLT14, KW16a, LNR<sup>+</sup>14, LRS18, RS17, GJL12, HLS07]. **Parametric** [Epp18, FBV09]. **parentheses** [LY08]. **Parity** [CLL14]. **Partial** [JS07, KMNS17, MSS11]. **Partially** [ADF<sup>+</sup>15, HKN17]. **Partition** [LR15, CLLJ08, CKS05, SS09, ZO08]. **Partitioning** [AD16]. **partitions** [CAY10]. **Party** [KR16]. **pass** [Fot11]. **passes** [DFR09]. **Path** [AZ08, EP16, HMZ16, AT07, DI06, HSB07, MZ12]. **Path-Reporting** [EP16]. **Paths** [CW15, CR18, KK13, KK16, WY13, Cha12, CK07, DS11, Elk05, EPR10, GW07, HS06, HMS07, KMW10, KK06, MTZ10, RS11a, RZ12, Wil10]. **Pattern** [Gaw13, GGN06, Jez15, ALLS07, CS11]. **peeling** [ALLT11]. **peg** [BS06b]. **Perfect** [GKK10, HHM<sup>+</sup>18, AG10, BCKV06]. **perform** [BCM11]. **Performance** [HJ15]. **periodic** [BCMSM12]. **Periodicity** [EMS10]. **Permanent** [DHM<sup>+</sup>14a, And09]. **Permutation** [Wim16]. **Permutation-Invariant** [Wim16]. **Permutations** [BBHT17, EPR13, RW10a]. **permuterm** [FV10]. **Persistent** [Cha13]. **Phase** [CFH07, FP10]. **Philippe** [SSS<sup>+</sup>11]. **Phylogenies** [HHM<sup>+</sup>18]. **piece** [EP11]. **Piecewise** [MA16]. **Piecewise-Linear** [MA16]. **pipelined** [CDHW09, DH12]. **Pivot** [ADK16, AD16, WNN15]. **Placement** [EFM<sup>+</sup>16, GKK<sup>+</sup>09]. **Planar** [BSWN15, BK16, DHK14, KK13, WY16, AMM07, BLPS13, BKM09a, BKM09b, CDI<sup>+</sup>12, DS11, DFHT05, Dji10, DKT11, EPR10, GK09, GT08, KMW10, KK06, OGGW10, PS10]. **Planarity** [ADF<sup>+</sup>15]. **Plane** [CW15, CS08, Saw06]. **Planes** [DT16]. **player** [GMT11]. **player-specific** [GMT11]. **plurality** [AR08a, AR08b, AR09]. **Point** [Cha13, KPR16, AMM07, BCH<sup>+</sup>12, CFH07, CDI<sup>+</sup>12]. **Points** [AN16, ASW08, AHPSW10, CAY10]. **policies** [Jan05]. **polygon** [CAY10, CW10]. **Polygons** [CDD<sup>+</sup>15]. **Polylogarithmic** [GHT18]. **Polynomial** [BCD12, BKM15, DHM<sup>+</sup>14a, GS17, KW14, LR15, PRS12, PS16, SS18, AK12b, LDX09, SS09]. **Polynomial-Space** [GS17]. **Polynomial-Time** [BKM15, BCD12, LDX09]. **polynomially** [Kau07]. **Polynomials** [MS17]. **popular** [Mes14]. **Poset** [Gab16]. **Positive** [BPR<sup>+</sup>17, DHS16]. **Power** [BCP13, CDD<sup>+</sup>15, CSTW12, Hal12, ISG07]. **power-law** [CSTW12]. **powers** [BLS08]. **PQ** [BR16]. **PQ-Ordering** [BR16]. **Practical** [SCRS17]. **practically** [ADHY08]. **precedence** [DH12, JZ06].

**precise** [DK12]. **Predecessor** [Cha13]. **prefix** [RRS07]. **Preprocessing** [BSWN15]. **Preserving** [HL13, IN07]. **Price** [GN14, DHMZ12]. **Price-based** [GN14]. **priced** [CFK<sup>+</sup>07]. **Pricing** [AR05, BCC<sup>+</sup>10]. **Primal** [DH18, VB08, BCM11]. **Primal-dual** [VB08, BCM11]. **Principles** [ARS<sup>+</sup>14]. **priority** [AHRT05, ADHY08, EJK08, MTTZ06]. **Privacy** [FJS14]. **Private** [SCRS17]. **Prize** [Fuk17, HKKN12]. **Prize-Collecting** [Fuk17, HKKN12]. **Probably** [LMS18]. **probe** [GGM10]. **Probing** [PT16, Jan05, Vio05]. **Problem** [BK16, CCW18, CMVZ16, DT16, Epp18, ER17, Fuk17, KK13, KK16, Kra14, KS16, MMS14, NRS18, Soc16, AMR09, AR08a, BK08, BH12, BHZ13, BPGN09, BG11, BHKK12, BKMS11, CF05, Cha10b, CEGS11, CCHP12, CLLJ08, CKS05, CM07, DS08, DV10, EV10, EKS05, FHR07, FN10, GS09, GKLT09, HIMY07, HL06a, IMY10, Jac11, JR05, Kar09, KKW12, KMMP07, KMM11, LM11, MV08, NS10, RS09, SZ10]. **Problems** [BFGT16, BR14, BR16, CLL14, CDL<sup>+</sup>16, CGH17, FLN14, GKM16, GM12, HL13, JW13, Khu05, Khu06, Khu07, KW16a, Swa16, AAA<sup>+</sup>06, AKR12, BST08, BRFF<sup>+</sup>12, BHLR10, CMM09, CEGS11, CKP12, CGNS08, CDHW09, CNP<sup>+</sup>11, DFR09, EKS05, FS11, GJL12, HKKN12, HLS09, HSB07, Kar08, KNS<sup>+</sup>07, Nut09, Nut12, SS09, ST08, YLW08]. **processes** [EP12, GLPP08, MTZ10]. **Processing** [GPSS15]. **processors** [KS08]. **Product** [CDJS17, FLPS17]. **Programming** [LNR<sup>+</sup>14, RST14]. **programs** [CMS07, FP10]. **projective** [AGvS13]. **propagation** [IP11]. **Properties** [CDJS17, RT14, ABD<sup>+</sup>08, MR09, PR12]. **Property** [CDJS17]. **protocols** [GN14, GR10]. **Protrusion** [KLP<sup>+</sup>16a]. **Provably** [Kol08]. **provider** [BCKV06]. **pseudo** [II09]. **pseudo-cliques** [II09]. **Pseudoprimes** [Sha16]. **PTAS** [CJ18]. **Puzzle** [NRS18].

**QoS** [CJST07]. **quadrangle** [BGLZ09]. **quadrangle-inequality** [BGLZ09]. **Quadratic** [MMS14, HLS09]. **quadtrees** [CFH07]. **Quantification** [FJS14]. **Quantum** [AMR09, MRR06]. **Quasi** [LR15, PS16]. **Quasi-Polynomial** [LR15, PS16]. **Quasiconvex** [Epp06]. **Quasirandom** [DFS14]. **Queries** [GIN<sup>+</sup>17, HMZ16, KMNS17, BCH<sup>+</sup>12, GRR06]. **query** [FLM<sup>+</sup>12]. **Querying** [CFK<sup>+</sup>07]. **Queueing** [BJKK18]. **queues** [AHRT05, EJK08, MTTZ06]. **Queueing** [CKR12]. **quickly** [Oum08, Ruž09]. **quickselects** [MPV10]. **Quicksort** [ADK16, AD16, WNN15].

**R** [ADHY08]. **R-tree** [ADHY08]. **Race** [AA14]. **radio** [EK07]. **RAM** [Cha13]. **Ramsey** [Kra14]. **Ramsey-Type** [Kra14]. **Random** [BBHT17, GPSS15, BB09, BLW09, CFH07, FSP08, MZ12, PS10, PR08]. **Randomized** [AEP18, KSS09, KKM11, KW14, PR08, BKS12]. **Range** [ACY12, CW16, GIN<sup>+</sup>17, WY18, BCEG07]. **Rank** [HST15, IKM<sup>+</sup>06, BF09, Oum08]. **Rank-Balanced** [HST15]. **rank-convolutions** [BF09]. **Rank-maximal** [IKM<sup>+</sup>06]. **rank-width** [Oum08]. **ranking** [CFR10]. **Rate** [RS11b]. **Ratio** [LMMW16, BCM11, BF07, BM08, Kar09]. **Ray** [Tao14, GK09].

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