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Title word cross-reference

$(2 + \epsilon)$ [PS19]. (α, β) [BKMP10]. (h, k) [BEJK19]. (k, r) [DFHT05]. $(\min, +)$ [CMWW19]. $(n - 1)$ [RW10a]. 1 [KN16]. $1 - 1/e$ [HTWZ19]. 1.5 [KN16]. 2 [ERV16, Fuj12, GS17, GILP16, HCT⁺11, HVV19, KN16, SS18]. $2 + \epsilon$ [AGLW18]. 2.5545 [HCT⁺11]. 3 [CLL⁺12, FLL⁺19, Heg06]. $4/3$ [HVV19]. $4k^2$ [Tho10a, Tho10b]. H [BCSV20, VWY10]. K [DM09, ABF⁺18, AMS06, BHW20, BPR⁺17, Cha10b, CV20, CMVZ16, DKR16, DKN17, FHR07, FN10, GIN⁺17, GHNR10a, GHNR10b, HHL⁺16, HMS07, Lev09, Li17, PT16, RRS07, RZ12, WZ16]. l_1 [BDW19]. M [HIMŽ19]. n [RW10a]. $O(\log k)$ [ACER19]. $O(\log n)$ [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]. $O(nm)$ [CMA⁺19, KMMP07]. $O(VE)$ [DC05]. P_6 [LPV18]. st [BSWN15, KW16b]. t [DP06].

-Approximation [HVV19, KN16, PS19, Fuj12, KK13]. **-ary** [DP06, RRS07].

-**center** [BHW20, DFHT05]. -**clustering** [Lev09]. -**Colorings** [BCSV20].
 -**Competitive** [ACER19]. -**Convex** [HIMZ19]. -**Convolution**
 [CMWW19, Cha20]. -**CSP** [GS17]. -**Cut** [BSWN15, KW16b]. -**d** [DM09].
 -**Edge** [GILP16, HVV19]. -**Facility** [ABF⁺18]. -**Forest**
 [DKN17, GHNR10a, GHNR10b]. -**free** [LPV18]. -**Heavy** [BDW19]. -**Hitting**
 [FLL⁺19]. -**Independence** [PT16]. -**Median** [BPR⁺17, HHL⁺16, Li17].
 -**Opt** [ERV16]. -**permutations** [RW10a]. -**restrictions** [AMS06]. -**Route**
 [CMVZ16]. -**Server** [BEJK19, CV20, FN10]. -**Set**
 [FLL⁺19, 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]. **2016**
 [BGN⁺18]. **2017** [MWY19].

3-approximation [BPGN09]. **3SUM** [Cha20]. **3SUM-hard** [Cha20].

4-leaf [BLS08].

Access [ARS⁺14, BJKK18, CKR12]. **accesses** [CFLM07]. **Achieving**
 [APF⁺10]. **ACM** [BGN⁺18]. **ACM-SIAM** [BGN⁺18]. **Activation** [Fuk17].
Acyclic [HHM⁺18]. **Ad** [KMPS16]. **Adaptive**
 [BPL18, CW16, GM12, MPV10]. **Addendum** [GT16a]. **Adder**
 [BH19, HS18]. **Additive** [BKMP10, RS11a]. **Adjusting** [Elm17].
Admission [AAG09]. **Adversarial** [CKR12, NE19, CDHW09]. **adversary**
 [AC10]. **Advertising** [AFH⁺16]. **Advice** [GP19]. **affine** [GMT11]. **Agents**
 [DP14]. **aggregation** [BMSV⁺09]. **Agnostic** [Wim16]. **agreeable** [JLSS12].
agreement [KKK⁺10]. **Algebraic** [AK18, CLL14, Vig14]. **Algebras**
 [KW16a]. **Algorithm** [ACER19, AFS18, AKS17, AKLR20, AER15,
 BKMV20, BDW19, BFPP18, CMA⁺19, CLL⁺12, CMV16, CJL17, CI17,
 DKN17, DS19, ERV16, FGK⁺16, HHL⁺16, Hir19, HU20, HVV19, KKK18,
 KK13, KK16, KKR⁺20, KN16, MMS14, PRS20, AFM08, And10, AMM07,
 AR06, BB09, Blä08, BS10, BD11, CCKR11, DC05, CCM10, CKS05, Cla10,
 CNP⁺11, DMRW09, DS08, Dji10, DV10, EK07, EPR10, EFKN09, Fuj12,
 HMS07, IM12, JZ06, KY13, Kau07, KMW10, RW09, VH05]. **Algorithmic**
 [AMS06, BCFN07, GIKW19, HS17]. **Algorithms**
 [ASW08, ABF⁺18, AMNS17, AFK⁺18, BGGN16, BBHT17, BKN14,
 BODD⁺20, BGH19, BR14, BGN⁺18, BBM19, BBT12, BCMSM12, BSSX20,
 BF18, CHA18, Cab19, CLL14, CV20, CMVZ16, CDHW09, CMY11, CDP19,
 DGM18, DHK16, DH18, DPS18, EFM⁺16, EW20, EN19, EHL⁺18, ELR⁺08,

FLN14, FLK⁺20, FLPR12, GS17, GKM16, HH17, HKKK16, Har18, HL13, ISG07, KLP⁺16a, KBN_vL20, KX19, KLP16b, KMPS16, Lac13, LNR⁺14, LMS18, LRS18, LPS⁺20, MV15, NS16, RS17, SHHA16, Swa16, AAK06, AMR09, AF07, AA14, AR09, AG_vS13, AKL10, AKR12, BCD12, BKS12, BAT11, BFK⁺12, BCM11, BF07, CPR⁺11, CMO⁺08, CMM09, CKP12, CJST07, DFHT05, DI06, DJP⁺12, EF12, Elk11, Epp06, FP10, FZ07, GS09, GKLT09, GKK⁺09, GHPT05, HSS07, Iba08, IMY10, JR05, KNS⁺07, MV08]. **algorithms** [MZ12, PU07, PR08, RSS06, SZ10, YLW08, CEGK11]. **All-Or-Nothing** [AFH⁺16]. **All-Pairs** [KT18, 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]. **amid** [AFS18]. **amnesic** [GLPP08]. **among** [CW15, FKS08]. **Amortized** [GHT18]. **Analysis** [BBHT17, BCKM20, BKK⁺19, ERV16, ER17, FN20, GHPT05, SCRS17, WNN15, AAY10, AR09, BK08, BAT11, DMM⁺12, DI06, DK12, EP05, Epp06, FBV09, GN14, GR10]. **analytic** [SSS⁺11]. **Analyzing** [CCW18]. **Anarchy** [GHLL16, DHMZ12]. **ancestor** [GRR06]. **Ancestors** [Gab17]. **annotated** [GGN06]. **Annotations** [CCMT14]. **anonymity** [APF⁺10]. **Anonymous** [DP14, GMP17]. **any** [FKW11]. **Application** [AFH⁺16, ARS⁺14, Coh18]. **Applications** [ACE⁺20, BR16, DHK16, GIKW19, Hir19, HJT17, KMNS17, KW16a, LPS⁺20, Swa16, AAY10, AG10, AZ08, BB08, DMM⁺12, FGPS08, FGGV06, FSP08, NW07, RRS07, VWY10]. **applied** [BM08]. **Approach** [BFGT16, Gab16, LMMW16, AAA⁺06, NW07, VB08]. **Approximability** [BG20, CGNS08]. **Approximate** [AEP18, AC10, AFK⁺15, BS06a, BSSX20, CW16, FJS14, GMP05, GLNS08, HLS07, PP18, WY18, AKR12, BFG09, CSTW12, Vis08]. **Approximating** [CLNV14, CDKL20, Das13, DKR16, FR10, GJL12, GGG10, HLS09, KR16, LMMW16, MR09, Mar10, Nut09, Nut12, Oum08, RT13, WY16, Man12]. **Approximation** [Adj19, ABF⁺18, AMNS17, AGLW18, ABG16, BR14, BHPR19, BKM15, BPR⁺17, CMVZ16, DHK16, DKN17, EFM⁺16, FGL⁺20, FKRS19, GKK⁺09, HKKK16, HHL⁺16, HW19, HL13, HVV19, IMY10, JMR19, JR05, KK13, KK16, KN16, KW16b, KNS⁺07, MMS14, MV08, NHK08, PS19, Swa16, TY18, BFKS14, BKLP07, BPGN09, Blä08, BKM09a, BKM09b, CCKR11, CGR08, Cla10, DJP⁺12, DV10, EFKN09, Fuj12, HIMY07, JZ06, Joh06, Kar08, Kar09, LDX09, RS09, SS08a, VH05, CPR⁺11]. **Approximations** [ASS19, FIM⁺06, Jac11, LM11]. **arbitrarily** [And09]. **Arbitrary** [BCP13, EP12]. **Arborescence** [FLK⁺20, DV10]. **Arboricity** [ELR20]. **arc** [GGN06]. **arc-annotated** [GGN06]. **Archipelagos** [GRS17]. **architectures** [NW07]. **Arrangement** [TY18, NS10]. **arrays** [FGGV06, LK08]. **Arrival** [BH19]. **Arrivals** [HTWZ19]. **ary** [DP06, RRS07]. **Ascending** [BGH19]. **Ascending-Price** [BGH19]. **Aspects** [HS17, BCFN07]. **Assignment** [AFH⁺16, BH12, MMS14, MS17, Soc16, CNP⁺11, HLS09, Jac11, LM11].

asymmetric [Blä08]. **Asymptotic** [HJT17, SS08a]. **Asymptotically** [FV19, GIN⁺17, HS18]. **asynchronous** [KKK⁺10, KS08]. **asynchronously** [CPL12]. **Atomic** [FKS08, CKK10a]. **auctions** [BLW09]. **Augmentation** [Adj19, MV15, Nut09, VB08]. **Augmenting** [KN16, EFKN09]. **automata** [AKL10]. **automaton** [CFI⁺08]. **Average** [AR08a, AR09, RKH20, 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, SYZ20]. **Balancing** [BHS14, BKK⁺19, EDKM07, GMP05]. **Balls** [DT16, AHPSW10]. **Bandwidth** [CP12, BCFN07, EK06]. **bandwidths** [PRV11]. **Barrier** [GS18]. **based** [AMM07, BBM19, Cha10a, GN14, HMS12, MMS14, PU07]. **bases** [MM09]. **Basic** [DKR16]. **basis** [NS09]. **Batched** [AK18, AAY10]. **batching** [BNGK⁺09]. **Bayesian** [GM12]. **Beating** [Adj19, HTWZ19]. **Beats** [BBM19]. **Behaved** [FV19]. **Being** [ABG16, FLM⁺12]. **Bend** [BRW16]. **Berlekamp** [KY13]. **best** [FFM12, PUW08]. **best-response** [FFM12]. **Better** [ABG16, BKN14, FG08, Kar09]. **between** [CCDL16, MA16]. **Beyond** [ABZ19, EHL⁺18, Har16, Li17, WZ16, ASS19, PRS12]. **BFS** [PP16, PP18]. **Bi** [KR19]. **Bi-Monotonicity** [KR19]. **Biased** [ABG16]. **bichromatic** [AAK06, Cha10b]. **Biclustering** [HL13]. **biconnected** [PS10]. **Bicriteria** [RS09, FN10]. **bidders** [BCC⁺10]. **bifamilies** [Nut12]. **Bin** [EPR13, HCT⁺11, BNLT07, LK08]. **Binary** [FGL⁺20, HS18, HIMŽ19, STK16, BHMS11]. **Bipartite** [AKLR20, HTWZ19, Lau06, LM19, GKK10]. **bipartiteness** [Epp09c]. **Bisection** [ABG16, SS09]. **Bit** [BH19]. **bits** [PR08]. **Bivariate** [MA16]. **Black** [AHRT05]. **block** [FZ07]. **Bloom** [NE19]. **Boolean** [DHK16, KKR19]. **Bootstrapping** [FCFM09]. **Bottleneck** [DS08]. **Bound** [Kra14, Soc16, HCT⁺11]. **Bounded** [ACGP16, Adj19, BEJK19, CDJS17, CDP19, ELR20, EFF⁺15, GNSW20, LMS18, PPSV18, SHHA16, BEH⁺10, BHKK12, Dji10, KK06, MR09, MZ12, OGGW10, PRS12, Svi10]. **bounded-degree** [MR09]. **Bounded-Genus** [PPSV18]. **bounded-length** [KK06]. **Bounded-tree-width** [GNSW20]. **Bounding** [FGPS08]. **Bounds** [BODD⁺20, BN15, BCK⁺20, CHGG⁺17, CDKL20, CGH17, DLS14, HH17, Har19, JW13, KT18, SCRS17, WY18, AR08a, AGvS13, BD11, CGK⁺11, Cha10a, CV07, FGPS08, GHKS08, MSS11, PU07]. **box** [AHRT05]. **branch** [GT08]. **branch-decomposition** [GT08]. **Branchings** [HHM⁺18]. **Breadth** [HKN17]. **Breadth-First** [HKN17]. **Breaking** [GS18]. **Broadcast** [BKN14, CEGK11, EK07, IM12]. **Budget** [EFF⁺15, RS09]. **Budgeted** [BPR⁺17]. **Buffer** [AER15, CR18, AKM08, CJST07, GS09, RS11b]. **buffering** [LK08]. **buy** [BKLP07]. **Bypassing** [GRSW16]. **Byzantine** [KKK⁺10].

Cache [CR18, FV16, FLPR12]. **Cache-Efficient** [CR18]. **Cache-Oblivious**

[CR18, FV16, FLPR12]. **Caching** [ACER19]. **Cake** [CF20, EP11, SHHA16]. **Campaigns** [AFH⁺16]. **can** [BCM11]. **Cap** [Coh18]. **Capacitated** [Li17, BH12, ELR⁺08, HKRL07, Hir19, JR05]. **capacities** [MV08]. **capacity** [AGG10]. **carpool** [CNP⁺11]. **Carry** [BH19, IP11]. **Case** [CHL⁺20, FGL⁺19, WNN15, AR08a, AR09, ADHY08, CFK⁺07, CV07]. **Center** [CN19, HPST19, ASW08, BHW20, DFHT05, YLW08]. **Center-Type** [HPST19]. **centralized** [Elk11]. **Certification** [GT16a, GT16b]. **chairman** [CNP⁺11]. **changes** [CFH07]. **Channel** [BJKK18, CKR12, Soc16]. **channels** [AZ07]. **Checkpointing** [BODD⁺20]. **Cheeger** [KW16b]. **Cheeger-Type** [KW16b]. **Chordal** [ALM⁺19, HSS07, Iba08]. **CIOQ** [AR06]. **Circuits** [BH19, FGLS19, HS18]. **circular** [NS10]. **Class** [HIMZ19]. **Classes** [CDP19, KRS19, FP10, GKLT09]. **Classical** [BBHT17]. **Classification** [GLS10]. **Claus** [AFS12]. **Clique** [CDP19, FGL⁺19, HKP⁺18, Oum08]. **Clique-width** [CDP19, FGL⁺19, Oum08]. **cliques** [II09]. **Clocks** [ANFS17]. **Clones** [BG20]. **Closed** [CMA⁺19]. **closest** [AKS08]. **Closure** [Epp18, Rod08]. **Clustering** [ABS10, BHW20, FKRS19, GLS10, RKH20, ZO08, APF⁺10, CGK⁺11, Epp09b, EV10, Lev09]. **CNF** [CDL⁺16]. **CNF-SAT** [CDL⁺16]. **Co** [Kra14]. **Co-Nondeterminism** [Kra14]. **coalitions** [FKS08]. **code** [KL06]. **Codes** [MN18]. **Coding** [CLL⁺12]. **Coin** [BBHT17]. **Collecting** [CJJ20, Fuk17, HKKN12]. **collections** [CHLS07]. **collective** [GLPP08]. **Color** [CLL⁺12]. **Coloring** [CHL⁺20, FGL⁺19, SW20b, BNCS08, CKS09, DKT11, HKS11, PRV11, SS08a]. **Colorings** [BCSV20]. **Colors** [DLS14]. **Column** [BSSX20, Joh05, Joh06, Joh07, Khu05, Khu06, Khu07]. **Column-sparse** [BSSX20]. **combination** [GHPT05]. **Combinatorial** [EF12]. **Combinatorial** [AKS17, BST08, FGPS08, GM12, BCN12, FP10]. **combinatorics** [SSS⁺11]. **Common** [AW19, CMA⁺19, Gab17, CLLJ08, CKS05]. **Communication** [KR16]. **community** [ZO08]. **Compact** [AGM⁺08, BB08, KRX16, CSTW12]. **Compacting** [CKL⁺09]. **Comparison** [Cha10a]. **Comparison-based** [Cha10a]. **Comparisons** [AFHN16]. **Competitive** [ACER19, AKM08, AER15, BAT11, GR10, LMMW16]. **Completeness** [GIKW19, Joh05, Joh06, Joh07]. **Completion** [BFPP18, BCK⁺20, GLP06]. **Complexes** [BS18]. **Complexity** [BCK⁺20, CKP⁺19, CBFWW15, CF20, Das13, DHM⁺14a, DHPR16, GJLS17, KKR19, LM19, AK12a, BCMSM12, CEGK11, FLM⁺12]. **Component** [HKM⁺12]. **Components** [Lac13]. **Compositions** [Kra14]. **Compressed** [BN14, CHLS07, FMMN07, FV16, Gaw13, Jez15, BFG09, FV10, MN08, RNO11]. **compressing** [FGGV06]. **Compression** [GMS19, KW14, FGGV06]. **Computation** [BPL18, BH19, CR18, KKR⁺20, MN18, FIM⁺06, PT11]. **Computations** [FLS⁺18, FMS⁺10]. **Computing** [AFN⁺18, AFS18, AMNS17, BF09, BCKV06, CW15, CMV16, DGM18, Elk05, FGK⁺16, MA16, NZC11, RW10b, SS18, BB09, Dji10, EPR10].

Concentration [HH17, Har19]. **Conditional** [KT18]. **conditions** [ST08].
configuration [HKS11]. **confinement** [AKPS10]. **conflict**
 [BNCS08, CKS09]. **conflict-free** [BNCS08, CKS09]. **conflicting** [GHKS08].
Confusability [CCKN19]. **Congestion**
 [KK16, CKK10a, FFM12, FKS08, Swa12]. **congruent** [CKS09]. **conjunctive**
 [CFK⁺07]. **Connected** [FLST18, HVV19, Lac13, SYZ20]. **Connectivity**
 [BK16, CHGG⁺17, Gab16, GILP16, KN16, MV15, CEGS11, CRV11,
 EFKN09, Kor10, Nut09, Nut12, VB08]. **Conquer** [GS17, HJT17, FGPS08].
Consensus [BBT12, CN14]. **consequence** [BGLZ09]. **Conservative**
 [BG20]. **Constant** [AW19, ATG⁺14, HHL⁺16, Jac11, AHRT05, VP07].
constant-time [AHRT05]. **constants** [IP11]. **Constrained**
 [ADD⁺18, BR16, CS11, EHR16, BMSV⁺09, DKK06]. **Constraint**
 [GRS17, GM14, CMM09, SS09]. **Constraints** [MS17, DH12, GLP06, JZ06].
Constructing [EN19, GW07, Elk11]. **construction** [AMS06].
Constructings [ES16, SCRS17]. **Constructive** [CHL⁺20]. **contact**
 [BGPV08]. **content** [BH12]. **Continuous** [CCW18, NW07].
continuous-discrete [NW07]. **contractible** [Cab10]. **control**
 [AAG09, Hal12]. **Convergence** [CN14, EDKM07, GN14, FFM12]. **Convex**
 [BRW16, CDD⁺15, HIMZ19, BB09, CAY10, GJL12, MSS11]. **Convolution**
 [CMWW19, Cha20]. **convolutions** [BF09]. **Coresets** [Cla10]. **Correction**
 [BPL18, AEL⁺12]. **Correlation** [BPR⁺17]. **Correlations** [KKK18].
corridors [GGG10]. **Corrigendum** [GHKS13]. **Cost**
 [BFCF⁺17, HJ15, MV15, AZ08, AKLR20, BKLP07, EKS05, Fuj12, IMM08,
 Lev09, Nut12, RS09]. **Cost-Oblivious** [BFCF⁺17]. **cost-sharing** [IMM08].
cost-tree [Fuj12]. **Costs** [Adj19, BRW16, ELR⁺08, ST10]. **Counting**
 [AFK⁺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**
 [LPS⁺20, CMA⁺19, EKS05, HMS12]. **CoveringLSH** [Pag18]. **Covers**
 [Fuk17, GM14]. **Creation** [EFF⁺15, GHLL16, DHMZ12]. **Criteria**
 [ADV⁺16, GHKS08]. **cross** [IMM08]. **cross-monotonic** [IMM08].
cryptography [GHPT05]. **CSP** [GS17]. **CSPs** [KKR19]. **Cuckoo** [DK12].
Curse [CJ18]. **Curved** [CW15]. **curves** [EP12]. **Cut**
 [BSWN15, CMVZ16, ER17, GHT18, KW16b, CKL⁺09, CGR08]. **cuts**
 [BEH⁺10, CKL⁺09, PT11]. **Cutting** [CF20, SHHA16, EP11]. **Cycle**
 [AEL⁺12, BFGT16, FGL⁺19, KW14, CDEM10, GN08, KNS⁺07, LDX09,
 MM09, PT11, RW10a, HKM⁺12]. **cycles** [Cab10]. **cyclic** [BS06b].

d [DM09, CLL⁺12, HCT⁺11]. **D-Matching** [CLL⁺12]. **DAGs**
 [GR10, HH17, MTK⁺19]. **Data**
 [CCMT14, Gab17, GKS⁺11, GIN⁺17, HMZ16, SCRS17, AKS08, ACY12,
 BCEG07, BB08, CFLM07, DIL07, GHKS06, GHKS13, GLS10, GKK⁺09].
databases [CFK⁺07]. **dates** [KKW12]. **deadline** [CCL⁺09, GLP06].
deadlines [JLSS12]. **Deciding** [CCKN19, Kau07]. **Decision**

[CPR⁺11, MTZ10]. **Decisions** [KR18]. **decoding** [AGKS07].
decomposition [AZ08, DMRW09, Epp09b, GT08]. **Decompositions**
 [CKS19, KLP⁺16a, DC05]. **Decremental** [Lac13]. **Degeneracy**
 [CGH17, PRS12]. **Degree** [HKP⁺18, BHKK12, MR09]. **Degree-4** [HKP⁺18].
Delaunay [OGGW10]. **delay** [EK06]. **Delays** [FP13]. **Deletion**
 [ALM⁺19, CM15, STK16]. **Deletions** [ATG⁺14]. **Delta** [KKR19].
Delta-Matroids [KKR19]. **demand** [CMS07, EK06]. **Dense**
 [KRS19, ST08, And10]. **density** [KP08, ST08]. **Dependent**
 [KR18, CRR09, JMR19]. **Depth** [BEJK19, HS18]. **Derandomized** [Har19].
Derivative [CDJS17]. **Descent** [Hir19, AKR12]. **Design**
 [BK16, AZ08, CKK10b, CGNS08, EKS05, JR05, KSS09]. **Despite**
 [DPP14, AC10]. **Detection** [BFGT16, AEL⁺12, HKM⁺12]. **Determining**
 [AR08b]. **Deterministic** [BCEG07, BNCS08, BKK⁺19, BF18, CHA18, CI17,
 DP14, GP19, Har18, Lac13, LMPS18, NS16, TSZ14, MTZ10, Ruž08, Ruž09].
deterministically [KS08]. **DFTs** [HU20]. **Diagrams** [AK18, DHPR16].
Dial [GNR15, GHNR10a, GHNR10b]. **Dial-a-Ride** [GNR15]. **Diameter**
 [Cab19, Sol13, WY16]. **dictionaries** [BB08, FGI09, RRS07, Ruž08]. **differ**
 [EK06]. **different** [Jan05]. **difficulty** [HSB07]. **Digraphs**
 [HHM⁺18, CRV11]. **Dilworth** [HHM⁺18]. **Dimension**
 [ACGP16, KRX16, CGK⁺11]. **Dimensional**
 [AEP18, CHLT14, HW19, WY18, GLS10, NS09]. **Dimensionality** [CJ18].
Dimensions [CHA18, FR10]. **Directed** [CCHM15, CDKL20, GILP16, BD11,
 CEGS11, EPR10, GN08, HKRL07, KMW10, NS10, RTZ08, RZ12, VB08].
Direction [ADD⁺18]. **Direction-Constrained** [ADD⁺18]. **Discontinuity**
 [CCW18]. **Discounted** [MTZ10]. **Discovering** [FKW11, GRS17].
Discrepancy [EPR13]. **Discrete** [AFK⁺15, BGN⁺18, NW07]. **Disjoint**
 [AW19, KK13, KK16, CK07, CS07, DS11, GW07, ZO08]. **disks**
 [CKS09, GKK⁺09]. **displacements** [Jan05, Vio05]. **Disposal**
 [CHJ⁺18, SHHA16]. **Dissections** [FSP08]. **Distance**
 [ACGP16, AFN⁺18, AFK⁺15, BPL18, EP16, GS18, GW20, MA16, WY13,
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 FR10, GLNS08, HPR14, MR09]. **Distances** [Cab19, GMV09]. **Distinct**
 [Bła20, KKW12]. **distortion** [Pet09]. **Distributed**
 [ASS19, AKR12, AKPS10, BHS14, BJKK18, CHL⁺20, GKP08, KMPS16,
 PRS20, SCRS17, CMY11]. **distributing** [FMS⁺10]. **Distribution**
 [HS17, LCS⁺19, BH12, CRV11, Vio05]. **Distribution-free** [LCS⁺19].
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 [GT16a, GT16b]. **Diversification** [BJLY17]. **Divide** [HJT17].
Divide-and-Conquer [HJT17]. **Dividing** [HJT17]. **DNA** [KSS09]. **Do**
 [SZ20]. **Domains** [Wim16, OGGW10]. **dominance** [BST08, Epp09a].
Dominating [ASS19, BDH⁺20, FLST18, GS17, FGPS08, GKLT09, PRS12].
Domination [HMOV19, LPV18]. **Dominator** [GT16a, GT16b]. **Doors**
 [KR18]. **Dotted** [ALM⁺12]. **Doubling**
 [ACGP16, CGMZ16, CJ18, CJJ20, KRX16]. **Doubly** [SYZ20]. **Drawing**

[BRW16]. **drawings** [BLPS13]. **Dual**
 [AD16, DH18, Hir19, WNN15, BCM11, VB08]. **Dual-Pivot** [AD16, WNN15].
due [KKW12]. **Dynamic**
 [ALLS07, ANFS17, BCC⁺10, BBM19, BJLY17, CN14, CKS19, GS18, HKN17,
 KP08, MN08, MTK⁺19, NS14, NS16, OSSW20, RST14, SW20b, Tao14, AKS08,
 AHTL05, BKS12, CHLS07, DI06, Elk11, Epp09a, GK09, Iba08, LK08, Rod08].
Dynamics [FV19, FFM12].

ear [DC05]. **Easy** [KPR16]. **Edge**
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 KN16, MV15, RKH20, EFKN09, HKS11, MZ12, SS08a]. **Edge-Connectivity**
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 [KK13, KK16, CK07]. **Edges** [ADD⁺18]. **Edit**
 [GS18, AK12a, CM07, DMRW09]. **Editor** [Gab05]. **Editorial**
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 [Swa12]. **Efficient** [AAK06, AFS18, BS18, CR18, DH18, EN19, FGK⁺16,
 LPV18, MN18, SZ10, AAY10, AF07, ADHY08, MZ12]. **efficiently**
 [AGKS07, BKLP07, CAY10, Heg06]. **Eigenvalues** [TY18]. **Election**
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 [CS07]. **Elements** [Bla20]. **Elimination** [YB12]. **Embedded**
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encoding [FSP08, RRS07]. **Encodings** [GIN⁺17]. **End** [KMPS16].
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Energy-Efficient [DH18, AF07]. **entity** [CPR⁺11]. **Entropy**
 [CDI⁺12, GMS19, PU07, AMM07, CCM10, GMV09, MN08]. **Entropy-based**
 [PU07, AMM07]. **entropy-compressed** [MN08]. **Enumerating**
 [BDH⁺20, CMA⁺19]. **Enumeration** [II09]. **Enumerative** [HS17].
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 [GP08, IMY10]. **equal-length** [GP08]. **equals** [FGGV06]. **equations**
 [Epp06]. **Equilibria** [FGK⁺16, BCKV06, CV07]. **Equilibrium**
 [Das13, EDKM07]. **equitable** [CAY10]. **equivalence** [Kau07]. **Equivalent**
 [CMWW19, GMW20]. **erg** [PUW08]. **Error** [JW13, AKPS10, RS11a].
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Evaluation [DHK16]. **Even** [CP12, KKR19]. **everywhere** [CPL12].
evolution [FBV09]. **Exact**
 [AFK⁺18, CP12, GHT18, HJT17, Vio05, BFK⁺12]. **Excluded**
 [FLST18, LR15]. **excluding** [RW09]. **Expansion** [CLL⁺12, PR12].
Expected [DHPR16, BS06a]. **Experimental** [DI06]. **Experiments**
 [FGGV06]. **explicit** [RW10a]. **Exploration**
 [DP14, GP19, TSZ14, AGP⁺11, CFI⁺08, DKK06]. **Exponential**
 [ANFS17, CKP⁺19, DHM⁺14a, FP13, GKLT09, KLP⁺16a]. **exponentially**

[PR08]. **expression** [BFG09]. **extended** [HPR14]. **extension** [GN14, KMMP07]. **extensions** [BHZ13]. **external** [CFLM07, LK08]. **extreme** [GGM10].

face [DS11]. **Faces** [KBNvL20]. **Facility** [ABF⁺18, ANFS17, KS16, ST10, BH12, Fot11, FS11, MV08, Svi10, SS08b]. **Factor** [Adj19, HHL⁺16, Cha20, Jac11]. **Fair** [AKS17, PS16, GMP05, GN14]. **False** [Pag18]. **Families** [FLPS17, GKM16, AG10]. **family** [ASS08]. **Fan** [HS18]. **Fan-Out** [HS18]. **Fast** [AL13, BHK⁺16, CN14, CJL17, ES16, HU20, KKK⁺10, PT11, WY13, YZ05, BS10, BD11, KSS09, RW10b]. **Faster** [AKLR20, BKK17, BH19, CMV16, CD17, CP12, DGM18, EW20, FLN14, FZ07, GS17, GW20, HW19, Jez15, Kar08, KKK18, KX19, KLP16b, LNR⁺14, RSS06, BG11, Dji10, Rod08, TM08, MM09]. **father** [SSS⁺11]. **Fault** [HHL⁺16, PP16, PP18, SS08b]. **Fault-Tolerant** [HHL⁺16, PP16, PP18, SS08b]. **Faulty** [KT19]. **Feedback** [ALM⁺19, CCHM15, KR18, LRS18, RSS06, Tho10a, Tho10b]. **Few** [BHK⁺16, KBNvL20, GW07]. **fewer** [PR08]. **FFT** [GKM16]. **FIFO** [And09]. **File** [BBM19]. **Fill** [BCK⁺20, KMM11]. **Fill-in** [BCK⁺20]. **fillup** [JS07]. **filter** [CDHW09, DH12]. **Filters** [NE19]. **Filtrations** [BS18]. **Find** [ATG⁺14, AAY10, RW09]. **Finding** [ALLT11, CDEM10, Cab10, CAY10, GN08, Heg06, HMS07, KKK18, MOR13, VWY10, And10, RSS06, Joh07]. **finite** [BCN12, CFI⁺08]. **Firefighting** [ABZ19]. **First** [GIKW19, HKN17, EP05]. **First-order** [GIKW19]. **Fit** [CCDL16]. **Fixed** [BBM19, BBT12, CM15, CCHM15, DFHT05, DHM14b, MV15, DJP⁺12, EKS05, KKW12, RSS06, CGK⁺11]. **Fixed-Parameter** [BBT12, CM15, CCHM15, DHM14b, MV15, DFHT05, CGK⁺11]. **Flajolet** [SSS⁺11]. **flash** [BAT11]. **flexible** [AR05]. **Flip** [BBT12]. **Flow** [AGLW18, KT18, AF07, AKR12, AGG10, BD07, BFKS14, BKMSS11, CMS07, EF12, GMT11, HL06b, IM12, Kar08, TM08]. **flows** [BEH⁺10, EKS05]. **Fooling** [Har18]. **For-All** [GLPS17]. **Forbidden** [ACGP16, GJLS17]. **Forbidden-Set** [ACGP16]. **Forest** [BKM15, CDKL20, DKN17, GHNR10a, GHNR10b]. **Foreword** [CRR13, Epp07, Gab09, HT10, LOM06, Mat10, Gab05]. **Formulas** [KT19]. **formulation** [CKL⁺09]. **Foundations** [FJS14]. **Fourier** [MRR06]. **FPT** [BD11, CDP19]. **FPTAS** [KKW12]. **Fractional** [GM14, CKK10b, Kar08, Mar10]. **Framework** [Coh18, Har16, AKR12]. **Frank** [Cla10]. **Fréchet** [AFK⁺15, CW10, HPR14]. **Free** [CHJ⁺18, GHLL16, KRX16, SHHA16, BNCS08, BDH⁺20, CKS09, DKT11, LCS⁺19, LPV18, Saw06]. **Frequency** [Coh18]. **Frugal** [AT07]. **full** [FMMN07, KKK⁺10, MN08]. **full-text** [FMMN07, MN08]. **Fully** [BKS12, CDP19, FLS⁺18, Iba08, Jez15, NS14, NS16, OSSW20, AHTL05, Elk11, Rod08, RNO11]. **Function** [BCP13, DHK16, DP06, SS09]. **Functional** [NS14, CMY11]. **Functions** [BJLY17, CD17, Fel17, MPQS20, MA16, WZ16, AG10, GMT11, Vig14].

galled [MSS11]. **Galois** [AK12b]. **Game** [EFF⁺15, BCKV06]. **Games** [FV19, CKK10a, DHMZ12, FFM12, FKS08, GMT11, Swa12]. **Gap** [FP13, HKP⁺18]. **Gaps** [ABZ19]. **gas** [KMM11]. **Gasoline** [NRS18]. **Gathering** [DPP14, BKMSS11, RS11b, SZ10]. **General** [DPS18, ES16, EP16, ERV16, GMS19, AAA⁺06, JZ06, MR09, ABD⁺08]. **Generalization** [BR14, HHM⁺18, CF05]. **generalizations** [VB08]. **Generalized** [ACER19, AFH⁺16, CN19, CV20, HU20, CGR08, HL06a, Lev09]. **generate** [BS10]. **Generating** [BBHT17, BHPR19, Saw06]. **Generic** [MRR06]. **Genus** [PPSV18, Dji10]. **Geodesic** [CW10, KR19, OGGW10]. **Geometric** [CGK⁺11, Cha20, GS18, GRSW16, Vig14, BCEG07, BCH⁺12, CCHP12, Epp09c, GLNS08]. **Getting** [PUW08]. **Girth** [DKR16, RT13, Dji10]. **Gives** [DH18, CFR10]. **Good** [ADK16, CFR10, Kol08]. **Graph** [BRW16, CMA⁺19, FGL⁺19, Gab16, GP19, KMZ18, KN16, KRS19, SW20b, SYZ20, BKS12, BLPS13, CFI⁺08, DFR09, DKK06, EFKN09, GKLT09, RW09, SS09, Wil10]. **Graphs** [ACGP16, AFT19, ASS19, ADF⁺15, ADD⁺18, AKLR20, BDH⁺20, BSWN15, BK16, Cab19, CR18, CDP19, CGH17, DHK14, DPS18, ES16, EP16, EHL⁺18, FLS⁺18, FLST18, GILP16, GNSW20, KK13, LR15, LPV18, LMS18, LM19, OSSW20, PPSV18, WY16, AS07, ALM⁺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** [FN20, CKS05, Cla10, CNP⁺11, FP10, GR10, RS11b]. **Gromov** [AFN⁺18]. **Group** [DHK14, KW16a]. **Groups** [CZ18, AMR09, AK12b]. **Guarantees** [TY18, BST08]. **Guarding** [AFK⁺18]. **Guessing** [AGKS07]. **Guest** [Buc08]. **guided** [CFI⁺08].

Hadamard [CI17]. **Half** [HJT17]. **halfplanes** [CKS09]. **Hamiltonian** [FGL⁺19]. **Hanoi** [ASS08, BS06b, DS08]. **Hard** [CDL⁺16, GKM16, BH12, Cha20, Vis08]. **hard-capacitated** [BH12]. **Hardness** [CMVZ16, DKR16, CPR⁺11, KNS⁺07, KM12]. **hash** [AG10]. **Hashing** [Pag18, DK12, Jan05, Vio05]. **Haste** [SHHA16]. **Hausdorff** [AHPSW10, AFN⁺18]. **haystacks** [Joh07]. **Heap** [CR18]. **Heaps** [Elm17, HKTZ17, KT08]. **heaviest** [VWY10]. **Heavy** [BDW19, BNS19]. **hidden** [FKW11]. **Hierarchical** [CGMZ16, LK08, ST10]. **High** [AFS18, AEP18, Bła20, FR10, GLS10]. **High-Dimensional** [AEP18, GLS10]. **High-Quality** [AFS18]. **Higher** [TY18]. **Hitters** [BDW19, BNS19]. **Hitting** [FLL⁺19, GJLS17]. **Hoc** [KMPS16]. **Holant** [BG20]. **Hollow** [HKTZ17]. **hop** [FCFM09]. **hop-optimal** [FCFM09]. **hospitals** [KMMP07]. **hospitals-residents** [KMMP07]. **hotlink** [Jac11, LM11]. **Hub** [BGGN16]. **hulls** [BB09]. **Hunts** [TSZ14]. **hyperbolic** [Epp09b]. **Hypergraph** [Har19, AFS12, LDX09]. **Hypergraphs** [RKH20]. **Hyperplane** [AFHS20].

hypertree [Mar10].

I/O [AAY10, MZ12]. **I/O-efficient** [AAY10, MZ12]. **identical** [GP08]. **identification** [CPR⁺11]. **idle** [AA14]. **IDs** [DLS14]. **II** [AAHP⁺16]. **III** [FGL⁺19]. **Im** [BCKV06]. **Images** [RT14]. **impatient** [BCC⁺10]. **Implementation** [BBHT17, HMS07]. **Implicit** [FLL⁺19]. **Imprecise** [AFHN16]. **Improved** [AER15, BKK⁺19, BFG09, BBT12, BPR⁺17, CHA18, CJ18, CMO⁺08, CKP12, CLL⁺12, CJST07, DKN17, EFM⁺16, GS09, GHKS06, GHKS08, GNSW20, HIMY07, HSS07, KK16, LM11, Lac13, SW20b, Swa16, YLW08, AR06, CCKR11, CGR08, EK07, BKLP07, GHKS13]. **Improving** [CKS19]. **In-** [JMR19]. **Inapproximability** [GRSW16, KS16]. **inclusion** [BG11]. **incomplete** [GLS10]. **Incremental** [BFGT16, GHT18, HKM⁺12, AFM08]. **Independence** [LPV18, PT16]. **Independent** [BN14, Har19, LM19, LPS⁺20, AGM⁺08, Epp09a]. **index** [FV10]. **indexable** [RRS07]. **indexes** [BHMS11, BCH⁺12, CHLS07, FMMN07, MN08]. **Indexing** [BN14, BCKM20, BFG⁺16, FGGV06]. **Individual** [Jan05, Vio05]. **Induce** [FP13]. **inequality** [BGLZ09, Blä08]. **Infants** [GKM16]. **infeasible** [BST08]. **infinite** [ASS08]. **Information** [GMP17, AHTL05, BCKV06, CFK⁺07, EF12, GMV09, KKK⁺10, RS11b, MNS12]. **Injecting** [BLW09]. **Insert** [BPL18]. **Insertion** [BDW19, AHRT05, Jan05]. **Inspired** [ALM⁺19]. **Instability** [And09]. **Instances** [DKR16, Vis08]. **Integer** [EW20, CMS07, CLLJ08]. **Integrality** [ABZ19, HKP⁺18]. **interchanges** [FZ07]. **Intersection** [HIMŽ19, BK08, Epp09c]. **Interval** [BFPP18, CM15, EHR16, ALM⁺12, BHLR10, PRV11]. **intervals** [BNCS08]. **Introduction** [GBFC07, LPW20, MWY19]. **Invariant** [Wim16]. **Inverse** [BLW09, NZC11]. **Investigation** [KR18]. **Irreducibles** [BHK⁺16]. **Ising** [SS09]. **isolated** [II09]. **Isomorphism** [ABH⁺18, GNSW20]. **Issue** [BGN⁺18, CRR13, LPW20, MWY19, RRSW16, Epp07, GBFC07, Gab09, HT10, Mat10]. **Items** [CZ18]. **Iterations** [MPQS20]. **Iterative** [CLL⁺12].

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Label [BGGN16, CFI⁺08, DKR16, MMS14]. **Label-guided** [CFI⁺08]. **Labeling** [Kor10]. **Labels** [ACGP16]. **Large** [DKR16, AGG10, RW10b]. **Latency** [BMSV⁺09, INV16, GMT11]. **Latency-constrained** [BMSV⁺09].

lattice [NS09]. **Lattices** [BHK⁺16]. **law** [CSTW12]. **layouts** [BGPV08]. **LC** [JS07]. **Leader** [ARS⁺14, CKP⁺19, GMP17, KKK⁺10]. **leaf** [BLS08, DV10, BD11]. **Learning** [BCSV20, Wim16]. **least** [Kol08]. **leaves** [BRFF⁺12]. **left** [DMM⁺12]. **left-to-right** [DMM⁺12]. **Lemma** [CHL⁺20, EW20, HH17, Har18, Har16]. **Lempel** [BFG09]. **Length** [BEH⁺10, BB08, GP08, KK06]. **Length-bounded** [BEH⁺10]. **lengths** [KMW10, MZ12]. **Leontief** [GN14]. **Level** [KR19, GRR06]. **level-ancestor** [GRR06]. **Levels** [MN18]. **Liars** [Sha16]. **Light** [CWN18]. **Lightweight** [ES16]. **Limitations** [IMM08]. **limited** [KKM11]. **Limits** [KW16a, Joh06]. **Lindenstrauss** [AL13, JW13]. **Line** [KPR16, BFKS14, GS09, RS11b].

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Linear-Size [EP16]. **linear-space** [KMW10]. **Linear-Time** [KKR⁺20, RS17, BCKM20, BLS08, RW09, VH05]. **Lines** [DT16, BB09, GLS10]. **Link** [CBFWW15]. **Linking** [Gab17]. **links** [GW07].

list [AGKS07, AGvS13]. **Load** [ABF⁺18, BHS14, BKK⁺19, GPSS15, EDKM07, GMP05]. **Load-Balancing** [BKK⁺19]. **loads** [And09]. **Local** [BNS19, CHL⁺20, DP14, ER17, HH17, Har16, Har18, PS16, And10, BCM11, KP08, LK08]. **local-ratio** [BCM11].

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Lopsidedependency [Har16]. **losing** [KM12]. **lot** [ELR⁺08]. **Lottery** [HPST19]. **Lovász** [CHL⁺20, HH17, Har16, Har18]. **Low** [CHA18, FLS⁺18, FGL⁺20, KRX16, NS09, KP08, Pet09]. **Low-dimensional** [NS09]. **Low-rank** [FGL⁺20]. **Lower** [BN15, BCK⁺20, CDKL20, DLS14, Kra14, KT18, SCRS17, Soc16, Svi10, AR08a, AGvS13, CGK⁺11, Cha10a, MSS11]. **Lower-bounded** [Svi10]. **LP** [CCW18, HKS11, Li17, MMS14]. **LP-based** [MMS14]. **LZW** [Gaw13].

Machine [HJ15, JMR19]. **Machines** [SZ20, CKK10b, GP08, GLP06, TM08].

maiden [EP05]. **Maintaining** [AHTL05, Elk11]. **Maintenance** [HKN17, HKM⁺12]. **majorization** [GMP05]. **Makes** [SHHA16]. **Makespan** [GNR15]. **Making** [Ruž09]. **malleable** [JZ06]. **Management** [AER15, AKM08, CJST07]. **Many** [BKMV20, BRFF⁺12, Joh06].

Many-visits [BKMV20]. **map** [DFHT05]. **Mapping** [CDD⁺15]. **Market** [FGK⁺16]. **Markets** [BGH19]. **Markov** [FBV09, MTZ10]. **marriage** [HIMY07, IMY10]. **mask** [BF09]. **Massey** [KY13]. **MAST** [BPGN09].

Matching [AKLR20, BG14, CCW18, CLL⁺12, CHLT14, DPS18, EHL⁺18,

FLN14, Gaw13, HTWZ19, Jez15, NS16, PS19, ALLS07, BFG09, DC05, CS11, CM07, GGN06, HLS07]. **matching-covered** [DC05]. **matchings** [AFS12, GKK10, GKP08, IKM⁺06, KMMP07, KR16, Mes14, RW10b, VH05]. **Matrices** [DHS16, FLS⁺18, GMW20, KMNS17, KLP16b]. **Matrix** [FGL⁺20, WY13, KY13, YZ05]. **Matroid** [CLL14, GNR16, Swa16]. **Matroids** [FGLS19, KKR19, KW14, LMPS18]. **Max** [AKS17, ABG16, BR14, BJLY17, KT18, PRV11, PS16, BD11, GS17]. **Max-coloring** [PRV11]. **Max-Flow** [KT18]. **Max-Leaf** [BD11]. **Max-Min** [PS16]. **Max-Sum** [BJLY17]. **maxima** [DMM⁺12]. **Maximal** [Har19, NS16, PS10, Epp09a, GKP08, IKM⁺06]. **Maximin** [AMNS17]. **Maximization** [BF18, BFS19, CHJ⁺18, BNGK⁺09]. **Maximizing** [Fel17, GPSS15, MS17, WZ16]. **Maximum** [ER17, GMW20, KMNS17, MMS14, PS19, CMM09, DV10]. **Maximum-Cut** [ER17]. **MaxMin** [GNR16]. **may** [EK06]. **Mazing** [AGLW18]. **mean** [HL06b]. **meanders** [BS10]. **meandric** [BS10]. **Measure** [GS17, AZ08, FGPS08]. **measures** [ABS10]. **Mechanism** [CKK10b]. **mechanisms** [AT07]. **Median** [BPR⁺17, HHL⁺16, Li17, Swa16, Cha20, YLW08]. **Medium** [ARS⁺14]. **Meet** [BKK17, CPL12]. **Meet-in-the-Middle** [BKK17]. **meets** [AFS12]. **Melding** [MTTZ06]. **Memory** [FP13, AKM08, AGP⁺11, AC10, BAT11, CFLM07, GLPP08, KKM11, LK08]. **Memoryless** [CV20, Fot11]. **mergeable** [GKS⁺11]. **mesh** [FSP08]. **Message** [PRS20]. **Message-Optimal** [PRS20]. **Metastability** [FV19]. **methods** [BCN12]. **Metric** [AFN⁺18, ABS10]. **Metrics** [CGMZ16, CJ18, CJJ20, CGR08, GS09]. **Middle** [BKK17, MN18]. **Mighty** [DS19]. **Migration** [BBM19, GHKS06, GHKS13]. **Min** [AKS17, BR14, BSWN15, DHK16, GHT18, PS16]. **Min-Cut** [GHT18]. **Min-Knapsack** [DHK16]. **Min-Max** [BR14]. **minima** [BLW09]. **Minimal** [BDH⁺20, FGPS08]. **Minimization** [HL13, AF07]. **Minimize** [RKH20, AAG09, EK06, TM08]. **Minimizing** [BD07, BKMSS11, DHM⁺09, DHM14b, FS11, GLP06, HL06b]. **Minimum** [ABF⁺18, AKLR20, BCK⁺20, BBT12, GPSS15, GNR15, HS18, HVV19, INV16, MV15, MM09, PRS20, TY18, AGM⁺08, ABD⁺08, BCD12, CKL⁺09, CLLJ08, CKS05, CS08, Fuj12, GKLT09, HL06a, HLS09, JR05, KKW12, Lev09, Nut12, PR08]. **Minimum-Cost** [MV15, AKLR20, Nut12]. **Minimum-Flip** [BBT12]. **Minimum-Load** [ABF⁺18]. **minmax** [YLW08]. **minmax-regret** [YLW08]. **Minor** [LR15, RW09]. **Minors** [FLST18, GJLS17]. **Minset** [Gab16]. **Minset-Poset** [Gab16]. **minsum** [GHKS08]. **Minwise** [PT16]. **MIS** [FN20, OSSW20]. **Mischief** [DPP14]. **mobile** [FS11]. **Model** [AN16, CMR18, HPST19, PS19, And09, FCFM09]. **models** [AR05, FBV09]. **Modern** [BBHT17]. **moments** [LK08]. **Monge** [GMW20, KMNS17]. **monitoring** [CMY11]. **Monotone** [BJLY17]. **monotonic** [IMM08]. **Monotonicity** [KR19, BGLZ09, FR10]. **Morphing** [BLPS13]. **Moser** [Har16, HS17]. **motif** [FKW11]. **Movement**

[DHM14b, HKKK16, DHM⁺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]. **Multiflow** [Hir19]. **multigraph** [SS08a]. **multigraphs** [HKS11]. **multihop** [AZ07]. **multilabeled** [BHMS11]. **Multilevel** [KS16]. **Multipartite** [EJK08]. **multiparty** [FIM⁺06]. **Multiple** [BJKK18, CZ18, CKR12, BHLR10, FKW11, HS09, VP07]. **multiple-interval** [BHLR10]. **Multiplication** [WY13, IP11, VP07, YZ05]. **Multiplierless** [VP07]. **multisets** [RRS07]. **multivariate** [Epp06].

name [AGM⁺08]. **name-independent** [AGM⁺08]. **Nash** [Das13, EDKM07]. **Natural** [Li17]. **Near** [BSWN15, CMM09, CWN18, GLPS17, WY16, CCM10, EPR10]. **Near-Linear** [BSWN15]. **near-linear-time** [EPR10]. **Near-Optimal** [CWN18, GLPS17, CMM09, CCM10]. **Nearest** [AAHP⁺16, AEP18, Gab17, IN07, AKS08]. **Nearest-Neighbor** [AAHP⁺16]. **Nearest-neighbor-preserving** [IN07]. **Nearly** [CI17, DKN17, KBNvL20]. **needles** [Joh07]. **negative** [CGR08, KMW10]. **negative-type** [CGR08]. **Negatives** [Pag18]. **Neighbor** [AAHP⁺16, AEP18, IN07]. **Neighborhoods** [AFHS20, CJ18]. **neighbors** [AKS08]. **nested** [Kau07]. **Network** [BK16, DP14, EFF⁺15, Fuk17, GHLL16, PPSV18, AR05, AAA⁺06, And09, AZ08, CEGS11, CGNS08, DHMZ12, EKS05, FCFM09, HKKN12, JR05, Swa12]. **Networks** [BHS14, CN14, CLNV14, DGG⁺20, HKN17, KRX16, KMPS16, AZ07, AGG10, BH12, BMSV⁺09, MSS11, NHK08, PR12]. **nilpotence** [AK12b]. **No** [FG08, BRFF⁺12]. **Node** [CCW18, DHK14, Hir19, HKRL07, RS09]. **Node-capacitated** [Hir19, HKRL07]. **node-cost** [RS09]. **Node-Weighted** [CCW18, DHK14]. **nonabelian** [AMR09]. **nonavailability** [DJP⁺12]. **Nondecreasing** [Wil10]. **Nondeterminism** [Kra14]. **Nonlinear** [HJ15]. **nonmetric** [ABS10]. **Nonmonotone** [ADV⁺16]. **nonpreemptive** [GP08]. **nontrivial** [KS08]. **note** [Alb10a, AHRT05, Alb10b]. **Nothing** [AFH⁺16]. **Novel** [NW07]. **Nowhere** [KRS19]. **NP** [DS19, GKM16, Joh05, Joh06, Joh07]. **NP-completeness** [Joh05, Joh06, Joh07]. **NP-Hard** [GKM16]. **NP-Mighty** [DS19]. **Number** [SZ20, CFR10, KKW12, KS08]. **Numerical** [KLP16b].

O-efficient [AAY10, MZ12]. **Oblivious** [BFCF⁺17, CCW18, CR18, FV16, FLPR12, HKRL07]. **Obstacles** [AFS18, CW15]. **occurrences** [BCN12]. **Odd** [FGL⁺19, KW14]. **off** [DFR09]. **offline** [BNCS08]. **one** [CDEM10, Fot11]. **Online** [BODD⁺20, BJKK18, BFS19, CHJ⁺18, CKS09, DH18, EV06a, GP08, HTWZ19, JLSS12, KB06, LMMW16, MNS12, AAA⁺06, AAG09, AKL10,

BNCS08, BF07, CCL⁺09, CJST07, CNP⁺11, EV10, GS09, GMP05, IM12, PU07, PRV11, YZ12, HCT⁺11, LK08]. **open** [BS10, GHKS06, GHKS13]. **Opt** [ERV16]. **optical** [AZ08]. **Optimal** [AL13, AGvS13, AD16, BN15, BDW19, Bla20, BRW16, CMA⁺19, CDJS17, CWN18, CI17, DH18, DKK06, Elm17, Gaw13, GLPS17, GMS19, GIN⁺17, GT08, GRSW16, Han07, JW13, LMS18, LMMW16, PRS20, ADHY08, BKMV20, CCM10, CMO⁺08, CMM09, DMRW09, FCFM09, FSP08, GK09]. **Optimality** [DS08, CNP⁺11]. **Optimally** [EK06, KS08, TM08, Wil10]. **Optimization** [BGGN16, BHLR10, BPR⁺17, GM12, GNR16, AAA⁺06, GJL12, Vig14, MNS12]. **Optimizing** [CCL⁺09]. **Oracle** [BSWN15, EP16, LR15, CSTW12]. **Oracles** [GW20, KK06, WY13, BS06a, GLNS08]. **Order** [HL13, BF07, BM08, GIKW19]. **Order-Preserving** [HL13]. **Ordered** [KR19]. **Ordering** [BR16, CFR10, AFM08, CDHW09, DH12, KB06, HKM⁺12]. **Ordinal** [ABD⁺08, GRR06, HMS12]. **orientations** [FLM⁺12, FSP08]. **orienteering** [CKP12]. **Orthogonal** [BRW16, Cha13, CW16, BLPS13]. **Other** [BCK⁺20]. **out-trees** [BRFF⁺12]. **Outlier** [KKK18]. **Outliers** [CN19, FKRS19, HPST19]. **output** [ST08]. **output-density** [ST08].

P2P [NW07]. **Packet** [KMPS16]. **packets** [JLSS12]. **Packing** [BSSX20, CZ18, CS07, EPR13, FLL⁺19, BNLT07, CMS07, KNS⁺07, HCT⁺11]. **Packings** [BKK17]. **pair** [AKS08]. **Pairs** [KT18, Cha12, DI06, MTZ10, RS11a]. **Pairwise** [Cab19, GW07]. **pants** [Epp09b]. **Parallel** [DH12, FN20, HH17, Har18, CKS09, GKK⁺09, Han07]. **Parameter** [BBT12, CM15, CCHM15, DHM14b, MV15, DFHT05, RSS06, CGK⁺11]. **Parameterized** [BFPP18, BCK⁺20, CHLT14, FLS⁺18, KW16a, LNR⁺14, LRS18, LPS⁺20, RS17, GJL12, HLS07]. **Parametric** [Epp18, FBV09]. **parentheses** [LY08]. **Parity** [CLL14]. **Partial** [GMW20, JS07, KMNS17, MSS11]. **Partially** [ADF⁺15, HKN17]. **Partition** [LR15, CLLJ08, CKS05, SS09, ZO08]. **Partitioning** [AD16, SYZ20]. **partitions** [CAY10]. **Party** [KR16]. **pass** [Fot11]. **passes** [DFR09]. **Path** [AGLW18, AZ08, EP16, HMZ16, AT07, DI06, HSB07, MZ12]. **Path-Reporting** [EP16]. **Paths** [AFS18, CW15, CR18, GW20, 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** [AKLR20, GKK10, HHM⁺18, AG10, BCKV06]. **perform** [BCM11]. **Performance** [HJ15]. **periodic** [BCMSM12]. **Periodicity** [EMS10]. **Periods** [MPQS20]. **Permanent** [DHM⁺14a, And09]. **Permutation** [Wim16]. **Permutation-Invariant** [Wim16]. **Permutations** [BBHT17, EPR13, RW10a]. **permuterm** [FV10]. **Persistent** [Cha13]. **Perturbation** [BHW20]. **Phase** [BBM19, CFH07, FP10]. **Phase-based**

[BBM19]. **Philippe** [SSS⁺11]. **Phylogenies** [HHM⁺18]. **piece** [EP11]. **Piecewise** [MA16]. **Piecewise-Linear** [MA16]. **pipelined** [CDHW09, DH12]. **Pivot** [ADK16, AD16, WNN15]. **Placement** [EFM⁺16, GKK⁺09]. **Planar** [ASS19, AKLR20, BSWN15, BK16, Cab19, DHK14, EHL⁺18, KK13, KKR19, KBN_vL20, PPSV18, WY16, AMM07, BLPS13, BKM09a, BKM09b, CDI⁺12, DS11, DFHT05, Dji10, DKT11, EPR10, GK09, GT08, KMW10, KK06, OGGW10, PS10]. **Planarity** [ADF⁺15, ADD⁺18, KR19]. **Plane** [CW15, GMS19, CS08, Saw06]. **Planes** [DT16]. **Planted** [HKP⁺18]. **player** [GMT11]. **player-specific** [GMT11]. **Plurality** [DGM18, AR08a, AR08b, AR09]. **Point** [AK18, BHPR19, Cha13, KPR16, AMM07, BCH⁺12, CFH07, CDI⁺12]. **Points** [AN16, DGM18, ASW08, AHPSW10, CAY10]. **policies** [Jan05]. **polygon** [CAY10, CW10]. **Polygonal** [AFS18]. **Polygons** [AW19, CDD⁺15]. **Polylogarithmic** [GHT18, Har18]. **Polynomial** [BCD12, BKM15, CDP19, DHM⁺14a, FLS⁺18, GS17, KW14, KRS19, LR15, PRS12, PS16, SS18, AK12b, LDX09, SS09]. **Polynomial-Space** [GS17]. **Polynomial-Time** [BKM15, FLS⁺18, BCD12, LDX09]. **polynomially** [Kau07]. **Polynomials** [Har19, MS17]. **popular** [Mes14]. **Poset** [Gab16]. **Positive** [BPR⁺17, DHS16]. **Potential** [FV19]. **Power** [BCP13, CDD⁺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, GMW20]. **Preemption** [BFS19]. **prefix** [RRS07]. **Preimage** [MPQS20]. **Preprocessing** [BSWN15]. **Prescribed** [BH19]. **Preserving** [HL13, IN07]. **Price** [BGH19, GN14, DHMZ12]. **Price-based** [GN14]. **priced** [CFK⁺07]. **Pricing** [AR05, BCC⁺10]. **Primal** [DH18, VB08, BCM11]. **Primal-dual** [VB08, BCM11]. **Principles** [ARS⁺14]. **priority** [AHRT05, ADHY08, EJK08, MTTZ06]. **Privacy** [BNS19, FJS14]. **Private** [SCRS17]. **Prize** [CJJ20, Fuk17, HKKN12]. **Prize-Collecting** [Fuk17, HKKN12]. **Probability** [Bła20]. **Probably** [LMS18]. **probe** [GGM10]. **Probing** [PT16, Jan05, Vio05]. **Problem** [BEJK19, BK16, CCW18, CJJ20, CMVZ16, DT16, Epp18, ER17, Fuk17, HW19, HVV19, KK13, KK16, KR18, Kra14, KS16, MMS14, NRS18, SW20a, Soc16, TY18, AMR09, AR08a, BK08, BH12, BHZ13, BPGN09, BG11, BHKK12, BKMSS11, 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** [BG20, BFGT16, BR14, BDW19, BR16, BCK⁺20, BSSX20, BF18, CN19, Cha20, CLL14, CV20, CDL⁺16, CGH17, CMWW19, FLN14, FLL⁺19, FGL⁺20, FLK⁺20, GKM16, GM12, HPST19, Hir19, HL13, JW13, Khu05, Khu06, Khu07, KW16a, PPSV18, Swa16, AAA⁺06, AKR12, BST08, BRFF⁺12, BHLR10, CMM09, CEGS11, CKP12, CGNS08, CDHW09, CNP⁺11, DFR09, EKS05, FS11, GJL12, HKKN12, HLS09, HSB07, Kar08,

KNS⁺07, Nut09, Nut12, SS09, ST08, YLW08]. **processes** [EP12, GLPP08, MTZ10]. **Processing** [GPSS15, JMR19]. **processors** [KS08]. **Product** [CDJS17, FLPS17]. **Programming** [CHA18, CKS19, EW20, LNR⁺14, MTK⁺19, RST14]. **programs** [CMS07, FP10]. **projective** [AGvS13]. **propagation** [IP11]. **Properties** [CDJS17, GIKW19, KRS19, RT14, ABD⁺08, MR09, PR12]. **Property** [CDJS17]. **protocols** [GN14, GR10]. **Protrusion** [KLP⁺16a]. **Provably** [Kol08]. **provider** [BCKV06]. **Proximity** [EW20]. **pseudo** [II09]. **pseudo-cliques** [II09]. **Pseudopolynomial** [KX19]. **Pseudoprimes** [Sha16]. **PTAS** [AFHS20, CJ18, CJJ20]. **Puzzle** [NRS18].

QoS [CJST07]. **quadrangle** [BGLZ09]. **quadrangle-inequality** [BGLZ09]. **Quadratic** [GS18, MMS14, HLS09]. **quadtrees** [CFH07]. **Quality** [AFS18]. **Quantification** [FJS14]. **Quantum** [AMR09, MRR06]. **Quasi** [LR15, PS16]. **Quasi-Polynomial** [LR15, PS16]. **Quasiconvex** [Epp06]. **Quasirandom** [DFS14]. **Queries** [GMW20, GIN⁺17, HMZ16, KMNS17, BCH⁺12, GRR06]. **query** [FLM⁺12]. **Querying** [CFK⁺07]. **Queueing** [BJKK18]. **queues** [AHR05, EJK08, MTTZ06]. **Queuing** [CKR12]. **quickly** [Oum08, Ruž09]. **quickselects** [MPV10]. **Quicksort** [ADK16, AD16, WNN15].

R [ADHY08]. **R-tree** [ADHY08]. **Race** [AA14]. **radio** [EK07]. **RAM** [Cha13]. **Ramsey** [ACE⁺20, Kra14]. **Ramsey-Type** [Kra14]. **Random** [BBHT17, DGG⁺20, GPSS15, HTWZ19, BB09, BLW09, CFH07, FSP08, MZ12, PS10, PR08]. **Randomized** [AEP18, CV20, FN20, KSS09, KKM11, KW14, PR08, BKS12]. **Range** [ACY12, CW16, GIN⁺17, WY18, BCEG07]. **Rank** [HST15, IKM⁺06, BF09, FGL⁺20, Oum08]. **Rank-Balanced** [HST15]. **rank-convolutions** [BF09]. **Rank-maximal** [IKM⁺06]. **rank-width** [Oum08]. **ranking** [CFR10]. **Rate** [RS11b]. **Ratio** [LMMW16, BCM11, BF07, BM08, Kar09]. **Ray** [Tao14, GK09]. **Reachability** [Lac13]. **read** [Wil10]. **Real** [BG14, BNGK⁺09, BCMMS12, VWY10]. **Real-Time** [BG14, BNGK⁺09, BCMMS12]. **Reallocation** [BFCF⁺17]. **really** [EP11]. **Reasoning** [AKL10]. **Rebalancing** [STK16]. **receiver** [EK06]. **recognition** [BLS08]. **Recognizing** [AFT19]. **recolorings** [MSS11]. **Recompression** [Jez15]. **Reconfiguration** [LM19]. **Reconstruction** [CJL17, KMZ18]. **Recovery** [GLPS17]. **rectangle** [ELR⁺08]. **rectangles** [CKS09]. **Rectangular** [BGPV08]. **Rectilinear** [FLK⁺20, GK09]. **Recurrence** [HJT17, Epp06]. **recurrent** [Kau07]. **Reducing** [CJ18]. **Reduction** [MMS14, MOR13, NS09]. **redundancy** [BK08]. **Reflex** [CDD⁺15]. **register** [DP06]. **regret** [YLW08]. **Regular** [FGLS19, BFG09, GKK10]. **regulation** [HS09]. **rejections** [AAG09]. **Related** [BFGT16, BDW19, CKP12]. **relations** [BHMS11]. **Relationship** [KR19]. **relative** [BF07, BM08]. **Relaxation** [Li17, ABD⁺08, GGG10]. **relaxed** [DM09]. **Relay** [EFM⁺16].

Rendezvous [FP13, TSZ14, KKM11]. **rent** [BKLP07]. **rent-or-buy** [BKLP07]. **Reordering** [AER15]. **Repairmen** [HKKK16, FHR07]. **Repeats** [CCKN19]. **repetitions** [AAG09]. **Replacement** [GW20, RZ12, WY13, EPR10]. **Reporting** [EP16]. **Reports** [DP14]. **Representation** [BS18]. **Representations** [Gab16, FMMN07]. **Representative** [FLPS17]. **Representing** [BN15]. **Required** [PT16]. **reservation** [BM08]. **residents** [KMMP07]. **Resilience** [BHW20]. **Resilient** [FGI09]. **Resolution** [GM12]. **Resource** [JMR19, CCKR11, GN14]. **respect** [CGK⁺11]. **response** [FFM12, PUW08]. **Restore** [CMR18]. **Restricted** [AKS17, MPQS20, PS16, BNLT07]. **restriction** [GGG10]. **restrictions** [AMS06]. **Results** [EW20, GRSW16, CPR⁺11, GHKS06, GHKS13, HIMY07, KNS⁺07]. **Retroactive** [DIL07]. **Reversal** [CBFWW15]. **Revisited** [ABH⁺18, CK07, HPR14, NS09]. **Ride** [GMR15, GHNR10a, GHNR10b]. **right** [DMM⁺12]. **Robust** [ARS⁺14, GNR16, HS06]. **roommates** [CF05]. **Rooted** [CLNV14, KL06, Saw06]. **roots** [Lau06]. **Roundtrip** [RTZ08]. **Route** [CMVZ16]. **Routing** [AZ07, ADPP07, CGMZ16, CBFWW15, GMT11, KRX16, AGM⁺08, CSTW12, HKRL07, KP08, RTZ08]. **Rule** [HJ15]. **Rumor** [DFS14].

s [BRFF⁺12, CRV11]. **S-T** [CRV11]. **Salesman** [DT16, BHKK12]. **samples** [EMS10]. **Sampling** [CHGG⁺17, Coh18, BCEG07, FSP08, GKK10, MPV10, PT11]. **Santa** [AFS12]. **SAT** [CDL⁺16]. **Satisfaction** [GRS17, CMM09, SS09]. **savings** [ISG07]. **Scalable** [BKN14, IM12]. **Scalably** [EP12]. **Scale** [KRX16]. **Scale-Free** [KRX16]. **Scaling** [BCP13, DPS18, AA14]. **schedule** [Wil10]. **Scheduling** [AFH⁺16, BKN14, HJ15, JMR19, KMPS16, LMMW16, SZ20, AZ07, BCD12, BNLT07, BNGK⁺09, BCMSM12, CCL⁺09, CEGK11, CKK10b, CRR09, DJP⁺12, EP12, EV06a, EK06, GHKS06, GHKS08, GP08, Hal12, IM12, JZ06, JLSS12, GHKS13]. **Scheme** [BKM15, BKM09a, BKM09b, CSTW12, LDX09, SS08a]. **Schemes** [BKK⁺19, FGL⁺20, FKRS19, HW19, JMR19, KRX16, IMM08, Kar08, KP08, Kor10, NHK08]. **SDD** [KLP16b]. **Search** [Cha13, ER17, GMW20, PS16, STK16, JS07]. **Searching** [AAHP⁺16, ACY12, FG08]. **seat** [BM08]. **secretary** [BHZ13]. **secrets** [AGKS07]. **Secure** [FIM⁺06, PR12]. **Seeds** [KKR⁺20]. **Segmentation** [ADV⁺16]. **Selection** [AFHN16, AFK⁺15, CMR18, EHR16, GIN⁺17, Cha10a, Han07]. **Self** [Elm17]. **Self-Adjusting** [Elm17]. **Selfish** [BHS14, ADPP07]. **Semi** [ER16, FLN14, KR16, PS19]. **Semi-Matching** [FLN14]. **Semi-matchings** [KR16]. **Semi-Streaming** [ER16, PS19]. **Semicontinuous** [AFK⁺15]. **Semidefinite** [DHS16]. **sender** [EK06]. **Sensitive** [Pag18]. **Sensitivity** [GW20, WY13]. **sensor** [BMSV⁺09, FCFM09]. **separability** [AAK06]. **Separate** [GS17]. **separating** [Cab10]. **Separations** [CKP⁺19]. **separator**

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