

# A Complete Bibliography of *ACM Transactions on Computation Theory (ToCT)*

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## Title word cross-reference [OWZ15].

0 [FPS15]. 1 [AOTW14, Cha18]. 2 [AOTW14, GL18, Hru16]. 3 [AOTW14]. <sup>0</sup> [CTW13].  $\cap$  [AT11]. *H* [BCKP18, GGJ17]. *k* [AFS<sup>+</sup>18].  $O(n\epsilon)$  [CT18].  $O(\sqrt{n})$  [RRS<sup>+</sup>12].  $\Omega((n \log n)/R)$  [Ail16]. *q* [OWZ14]. *R* [Ail16]. *W*[1] [PW18a].

**-Coloring** [AOTW14]. **-Colorings** [GGJ17]. **-free** [BCKP18]. **-Frege** [FPS15]. **-hard** [PW18a]. **-Median** [Cha18]. **-Reducible** [CTW13]. **-Spin** [GL18]. **-to-** [AOTW14]. **-Well** [Ail16].

**2Lin** [OWZ15].

**3-Query** [BSHLM09, GR09]. **3Lin**

**above** [CPPW13]. **Abstract** [BGMS16]. **AC** [CTW13, FPS15]. **Advantage** [RV13]. **adversarial** [Dru13]. **Advice** [Wat14]. **Affine** [AB18, BG17]. **Affine-Invariant** [BG17]. **Algebraic** [AFS<sup>+</sup>18]. **Algebrization** [AW09, AB18]. **Algorithm** [CT18]. **Algorithmic** [DK13, LL18]. **Algorithms** [CFM14, HH13, PW18b, TKM12, FJ14]. **Allowing** [FLOR15]. **Almost** [AT11]. **Alternation** [Che17, Wil13]. **Alternation-Trading** [Wil13]. **Analysis** [KC12]. **Application** [ESY14]. **Approximate** [OS18, Smy11, TZ15]. **Approximately** [GGJ17, GJ14]. **Approximating** [BH12, CHIS12, RRS<sup>+</sup>12, RT13].

**Approximation**

[AKPP17, BCKP18, Cha18, GL18, RT16].  
**Approximations** [GJL<sup>+</sup>16]. **Arithmetic**  
 [KMS16, Vol16]. **Arrangement** [FHRS16].  
**Arthur** [PV12a]. **Asking** [CL17]. **Auction**  
 [CKK16]. **Average** [HS10, Wat12].  
**Average-Case** [HS10, Wat12].

**Barrier** [AW09]. **Barriers** [AB18]. **Based**  
 [GR16]. **Bazzi** [Raz09]. **Being** [ACC<sup>+</sup>14].  
**Betting** [HH13]. **between** [DPV09, Sch17].  
**beyond** [Sch16]. **Bidders** [CKK16].  
**Boolean** [AS17, HR16, RRS<sup>+</sup>12].  
**Bootstrapping** [BGV14]. **Bound**  
 [Ail16, BGMS16, Lau16]. **Bounded**  
 [BGLR12, ES17, KV10]. **Bounded-Depth**  
 [BGLR12]. **Bounds**  
 [AGSU15, AFS<sup>+</sup>18, BG17, DW12, FPS15,  
 HH13, KS15, Kom18, KPRR14, KMS16,  
 OWZ14, Pur11, Wat14, Wil13, CPPW13].  
**Branching** [AFS<sup>+</sup>18, CMW<sup>+</sup>12, KS15].

**Caching** [BIPS10, ERSV13]. **cactus**  
 [GGR14]. **Candidate** [CEMT14].  
**Canonizing** [ES17]. **Case**  
 [HS10, KV10, Wat12]. **Cell** [Yin10].  
**Cell-Probe** [Yin10]. **Characteristic**  
 [Hru16]. **characterized** [FJ14].  
**Characterizing** [Vol16]. **Circuit**  
 [HH13, KMS16, CFL14]. **Circuits**  
 [AS17, GHKL18]. **Classes** [AJR16].  
**Classification** [CM15]. **Clique** [CKP<sup>+</sup>14].  
**Clones** [FZ16]. **Co** [KPRR14].  
**Co-Nondeterminism** [KPRR14]. **Codes**  
 [GM12, Vid13]. **Coin** [LV18, Pur11].  
**Coin-Weighing** [Pur11]. **Collusion**  
 [PV12b]. **Collusion-Resistant** [PV12b].  
**Coloring** [AOTW14]. **Colorings** [GGJ17].  
**Communication** [AGSU15, BKM18,  
 DPV09, FJK<sup>+</sup>16, GJPW18, Wat18].  
**Compact** [GMPS14]. **comparator** [CFL14].  
**Comparing** [ESY14]. **Complete**  
 [AJR16, GHPT14, GKMT17, MV18].  
**Completeness** [Hru16]. **Completion**

**[DFPV15]. Complexity**

[AW09, AGSU15, BM15, Cha18, Che17,  
 DFPV15, ESY14, FGMN11, FJK<sup>+</sup>16,  
 GGJ17, GJ14, GM15, GMPS14, HPV11,  
 KC12, KMW16, RRS<sup>+</sup>12, Sch16, SV12,  
 Smy11, VLB12, Wat18, CFL14, GGR14].  
**Compressed** [Pag13]. **Computation**  
 [Ail16]. **Computational** [SV12, VLB12].  
**Computer** [AG14, AG13]. **Concisely**  
 [SV12]. **Conditional** [BC18, LL18, RT16].  
**Conditioned** [Ail16]. **confidence** [Dru13].  
**Conjunctive** [CM15]. **Connecting** [FJ14].  
**Connection** [FZ16]. **Connectivity** [GS18].  
**coNP** [AT11]. **Consensus** [Sch17].  
**Constant** [BG17, PV12a, BDK<sup>+</sup>13].  
**Constant-Round** [PV12a]. **Constraint**  
 [CL17]. **Controller** [VLB12]. **Convergence**  
 [SZ14]. **Correctness** [GM12]. **Correlated**  
 [CKK16]. **Counting** [GGJ17, GGR16, GJ14,  
 JM15, OS18, GGR14]. **Cover**  
 [AOTW14, CKP<sup>+</sup>14]. **CSPs** [DK13, TZ18].  
**CTC** [OS18]. **cut** [CPPW13]. **Cutting**  
 [Lau16]. **Cyclic** [OWZ15].

**Decidability** [TZ15]. **Decodable** [GM12].  
**Decoding** [HR16, Vid13]. **Decompositions**  
 [PW18b]. **Degree** [BKT13]. **Deletion**  
 [FGMN11, Kom18]. **Dense** [Wat14]. **Depth**  
 [BGLR12, KLMS16, BDK<sup>+</sup>13].  
**Derandomization** [MV18]. **Derivative**  
 [KMS16]. **Design** [CKK16]. **Determinants**  
 [DKLM10]. **Deterministic**  
 [AGSU15, CKK16]. **Dichotomy** [FGMN11].  
**Difference** [Sch17]. **Differential** [SZ14].  
**Dimension** [CL15, LL18]. **Directed**  
 [BTV09, CT18, KV10, PW18a].  
**Discrepancy** [FJK<sup>+</sup>16]. **Disjoint**  
 [FGMN11, GHPT14]. **Distance**  
 [AGSU15, Wat18]. **Distortion** [FFL<sup>+</sup>13].  
**Distributions** [BC18]. **Do** [GKM<sup>+</sup>16].  
**Does** [FJK<sup>+</sup>16]. **DPLL** [BIPS10].  
**Economical** [ERSV13]. **Edge** [BCKP18].  
**Editor** [For09]. **Effective** [SZ14].

**Efficiency** [PW18b]. **Efficient** [GJL<sup>+</sup>16]. **Election** [TKM12]. **Elementary** [Sch16]. **Encryption** [BGV14]. **Entropy** [KS15]. **Equations** [SZ14]. **Equilibria** [HS10, SV12]. **Evaluation** [CMW<sup>+</sup>12]. **Even** [PW18a]. **Evolvability** [Val14]. **Exact** [GKMT17, HH13, KMW16, TKM12]. **Example** [RT16]. **Except** [OWZ14]. **Exist** [GKM<sup>+</sup>16]. **expander** [Vid13]. **Experts** [KS14]. **Explicit** [DM13]. **Exploring** [DFPV15]. **Exponential** [FPS15, GM12]. **Expressions** [GHKL18]. **Extraction** [HPV11]. **Extractors** [DW12].

**Families** [JM15]. **Feedback** [ALMS18]. **Ferromagnetic** [GL18]. **Fields** [BKT13]. **Filters** [AJMR14]. **Finding** [FGMN11, KPRR14, Sch17]. **Fine** [CM15]. **Finite** [GHKL18]. **Fixed** [FFL<sup>+</sup>13]. **Foreword** [For09]. **Formula** [BIPS10, FGL16]. **Formulae** [Vol16]. **Formulas** [MV18]. **Formulation** [BGMS16]. **Four** [PW18a]. **Fourier** [Ail16, HR16]. **Fourier-Sparse** [HR16]. **FPT** [FJ14]. **Free** [GGR16, BCKP18]. **Frege** [BGLR12, FPS15]. **Frequency** [BH12]. **Fully** [BGV14]. **Function** [CEMT14, RT13]. **Functions** [AJMR14, BKT13, HR16, PRV18, RRS<sup>+</sup>12, Val14].

**Gadgets** [GKM<sup>+</sup>16]. **Galois** [FZ16]. **Games** [GMPS14, HH13, RV15, SV12]. **Gaussian** [DM13]. **General** [TZ18]. **General-Valued** [TZ18]. **Generators** [AS17]. **Genus** [KV10]. **Goldreich** [CEMT14]. **Graph** [CTW13, CKP<sup>+</sup>14]. **Graphs** [CT18, ES17, GGR16, GKMT17, Kul11, KV10, PW18b, GGR14]. **Ground** [GS18]. **Group** [AT11, CTW13, RT16]. **Groups** [OWZ15].

**Hamiltonians** [GS18]. **Hamming** [AGSU15]. **Hamming-Distance** [AGSU15]. **Hard** [BKT13, CFM14, JM15, Vio16, PW18a].

**Hardness** [ACC<sup>+</sup>14, AKPP17, AOTW14, BCKP18, Che17, DK13, DM13, GR09, Hru16, OWZ15]. **Hashing** [OWZ14]. **Hereditary** [KPRR14]. **Hidden** [RT16]. **Hierarchies** [Sch16]. **Hierarchy** [Che17]. **High** [Dru13]. **High-confidence** [Dru13]. **Higher** [GM12]. **Homomorphic** [BGV14]. **Homomorphisms** [GGR16, GJ14, GGR14]. **Hurdles** [KS14].

**Identity** [AFS<sup>+</sup>18, MV18]. **II** [AG14]. **Imply** [FPS15]. **Improved** [DPV09]. **Incompressibility** [CKP<sup>+</sup>14]. **Induced** [KPRR14]. **Infinite** [FZ16]. **Influence** [RRS<sup>+</sup>12]. **Information** [FJK<sup>+</sup>16, LL18]. **Innovations** [AG14, AG13]. **Input** [GM15, Sch17]. **Input-Oblivious** [GM15]. **Instances** [CFM14]. **Integers** [ESY14, GR09, OWZ15]. **Introduction** [AG13, AG14]. **Invariance** [FKMW18]. **Invariant** [BG17]. **Isolation** [Kul11]. **Isomorphism** [AT11, CTW13]. **Issue** [AG14, AG13].

**Joint** [BC18].

**Takeya** [LL18]. **Kernel** [KPRR14]. **Kernelizability** [KMW16]. **Kernels** [FLOR15, FJ14]. **Kolmogorov** [HPV11].

**Label** [AOTW14]. **Large** [OWZ15]. **Layered** [CT18]. **LCCs** [BG17]. **Leader** [TKM12]. **Learning** [HH13, KS14]. **Length** [AS17, GM12, Sch17]. **Leveled** [BGV14]. **Limitations** [AJMR14, CKK16]. **Limits** [TZ18]. **Linear** [CHIS12, FHRS16, GR09, Vid13, Wil13]. **Linear-time** [Vid13]. **Lipschitz** [AJMR14]. **List** [GGJ17, HR16]. **List-Decoding** [HR16]. **Local** [AJMR14, GS18]. **Locality** [OWZ14]. **Locality-Sensitive** [OWZ14]. **Locally** [DW12, GM12]. **Log** [BTV09].

**Log-Space** [BTV09]. **Logarithmic** [CM15]. **Logspace** [ES17, KV10]. **Long** [BSHLM09]. **Low** [BKT13]. **Low-Degree** [BKT13]. **Lower** [Ail16, AGSU15, AFS<sup>+</sup>18, BGMS16, BG17, DW12, FPS15, HH13, KS15, Kom18, KPRR14, KMS16, Lau16, OWZ14, Pur11, Wat14, Wil13, CPPW13]. **LTCs** [BG17].

**Maps** [Vio16]. **Matching** [GKM<sup>+</sup>16, GKMT17]. **Matchings** [DKLM10]. **Matrices** [KMS16]. **matrix** [Pag13]. **Max** [KMW16, OWZ15]. **Max-2Lin** [OWZ15]. **Max-3Lin** [OWZ15]. **Max-Poly** [DSS17]. **Maximum** [ESY14, KMS16]. **Maximum-Rank** [KMS16]. **Mechanisms** [PV12b]. **Median** [Cha18]. **Merlin** [PV12a]. **Metaquestions** [CL17]. **Method** [BGMS16]. **Metric** [Cha18]. **Min** [DSS17]. **Min/Max** [DSS17]. **Min/Max-Poly** [DSS17]. **Minimal** [TZ15]. **Minimum** [FHRS16]. **Mixing** [GL18]. **Model** [Ail16, Wat14]. **Modification** [BCKP18]. **Modulo** [Che17, GGR16, GGR14]. **Moments** [BH12]. **Monotone** [AJMR14, RRS<sup>+</sup>12]. **Multicut** [PW18a]. **Multilinearization** [Hru16]. **Multiparty** [DPV09]. **Multiple** [BH12]. **multiplication** [Pag13]. **multiway** [CPPW13]. **Mutual** [CL15].

**Nash** [SV12]. **Neciporuk** [BGMS16]. **NL** [DSS17]. **Non** [AS17]. **Non-Boolean** [AS17]. **Nonautoreducible** [NS16]. **Noncommutative** [AJR16]. **Nondeterminism** [BGMS16, KPRR14]. **Nondeterministic** [DPV09]. **Note** [ESY14]. **NP** [AT11, AOTW14, GHPT14, Wat12]. **NP-Complete** [GHPT14]. **NP-Hardness** [AOTW14]. **Nucleolus** [GMPS14]. **Number** [GJPW18, RT13]. **Numerical** [SZ14].

**Oblivious** [AFS<sup>+</sup>18, GM15]. **obstruction** [FJ14]. **Once** [FGL16, MV18, Vol16]. **One** [CEMT14]. **One-Way** [CEMT14]. **Ones** [KMW16]. **Operators** [KC12]. **Optimal** [AS17, BGLR12, DM13, OWZ14, PV12b]. **Optimization** [VLB12]. **orders** [FJ14]. **Overdetermined** [GR09]. **Overlaps** [FLOR15].

**P** [GM15]. **P/poly** [GM15]. **Packing** [AKPP17, FLOR15]. **Pairs** [PW18a]. **Parallel** [PV12a]. **Parameter** [FFL<sup>+</sup>13]. **Parameterizations** [FHRS16]. **Parameterized** [ALMS18, BGLR12, CM15, IY18, JM15, KMW16, PRV18, CPPW13]. **Parametric** [FLOR15]. **Parsing** [ESY14]. **Part** [AG14]. **Partial** [KMS16]. **Partition** [GJPW18]. **PCP** [GR09]. **PCPPs** [BSHLM09]. **Pebbles** [CMW<sup>+</sup>12]. **Pebbling** [KS15]. **Perfect** [GKM<sup>+</sup>16, GKMT17]. **Permanents** [DKLM10]. **Perspective** [ALMS18, GM15]. **Planar** [BTV09, CT18, Kul11, KV10]. **Planarity** [DKLM10]. **Planarizing** [GKM<sup>+</sup>16]. **Plane** [LL18]. **Planes** [Lau16]. **Poly** [AS17, DSS17, GM15]. **Poly-Size** [AS17]. **Polynomial** [CT18, Che17, FLOR15]. **Polynomials** [BKT13, KS12]. **POMDPs** [VLB12]. **Power** [Kul11, OS18, RT16]. **Predicates** [CHIS12, AH13]. **predictions** [Dru13]. **Prime** [BKT13]. **Principle** [FKMW18]. **Private** [ACC<sup>+</sup>14]. **Probability** [ESY14]. **Probe** [Yin10]. **Problem** [DSS17, FHRS16, LV18, TKM12, CFL14]. **Problems** [AGSU15, AJR16, BCKP18, DFPV15, FGMN11, FLOR15, JM15, KS12, Kom18, KMW16, Pur11]. **Product** [LV18]. **Program** [KS15]. **Programming** [Wil13]. **Programs** [AFS<sup>+</sup>18, CMW<sup>+</sup>12, TZ15]. **Proof** [CFM14, Che17, GM15, KLMS16, Raz09]. **Proofs** [Lau16, PV12a, Wil13, Yin10, BDK<sup>+</sup>13]. **Properties** [NS16]. **Property**

[BC18, PRV18]. **Proposed** [CEMT14]. **Protocols** [BKM18]. **Pseudorandom** [AS17].

**Quadratic** [Vio16]. **Quantum** [AGSU15, ORR13, RV15, TKM12]. **quasi** [FJ14]. **quasi-orders** [FJ14]. **Qubits** [OS18]. **Queries** [CM15, RT16]. **Query** [BSHLM09, BG17, Cha18, GM12, GR09, RRS<sup>+</sup>12, Smy11].

**Ramsey** [Lau16]. **Randomized** [DPV09, GJPW18]. **Randomness** [HPV11]. **Rank** [KMS16, Lau16]. **Ratio** [Cha18]. **Reachability** [BTV09, CT18, KV10]. **Read** [AFS<sup>+</sup>18, FGL16, MV18, Vol16, BH12]. **Read-** [AFS<sup>+</sup>18]. **Read-Once** [FGL16, MV18, Vol16]. **Read/** [BH12]. **Real** [RV13, Val14]. **Reals** [OWZ15]. **Reconstruction** [MV18]. **Reducible** [CTW13]. **Reduction** [KV10]. **Reductions** [Wat12]. **regular** [Vid13]. **rejection** [ORR13]. **Related** [KS12]. **Relational** [FZ16]. **Relative** [FJK<sup>+</sup>16]. **Relativization** [AB18]. **Relativized** [Wat12]. **Relaxations** [TZ18]. **Relevant** [RT13]. **Repetition** [PV12a]. **Represented** [ESY14, SV12]. **Require** [GM12]. **Resistant** [PV12b]. **Results** [AOTW14, CKP<sup>+</sup>14, DK13, DM13]. **Robust** [DK13]. **Roots** [KS12]. **Round** [PV12a]. **Routing** [HS10]. **Running** [Kom18].

**Samplable** [DW12]. **Sample** [GR16, Vio16]. **Sample-Based** [GR16]. **Samples** [BC18]. **Sampling** [RT16, ORR13]. **Satisfaction** [FGL16]. **Satisfiability** [DK13]. **Schemes** [DSS17]. **Science** [AG14, AG13]. **SDP** [TZ18]. **Seed** [AS17]. **Selection** [Cha18]. **Selfish** [HS10]. **Semirings** [GHKL18]. **Sensitive** [OWZ14]. **Separate** [FJK<sup>+</sup>16]. **Separation** [CKP<sup>+</sup>14]. **Separations** [DPV09]. **Set** [ALMS18, RT16]. **Sets** [GHPT14, LL18, NS16, FJ14]. **Simple**

[Raz09]. **Simultaneous** [ALMS18]. **Size** [AS17, FZ16, HR16, KS15, RT16]. **Sleeping** [KS14]. **Slice** [FKMW18]. **Small** [KLMS16, Sch17]. **Smoothed** [BM15]. **Solution** [Sch17]. **Solutions** [FGMN11, PV12b, SZ14]. **Solvable** [AT11]. **Solving** [GR09]. **Some** [JM15]. **Sound** [BSHLM09]. **Source** [Che17]. **Sources** [DW12]. **Space** [BTV09, CT18, CM15, GJL<sup>+</sup>16, PW18b]. **Space-Efficient** [GJL<sup>+</sup>16]. **Sparse** [GR09, HR16]. **Spatial** [GL18]. **Special** [AG14, AG13]. **Spin** [GL18]. **Square** [GGR16, KS12]. **Square-Free** [GGR16]. **Stability** [DM13]. **State** [GS18]. **Statistical** [Wat18]. **Stochastic** [VLB12]. **Streaming** [BKM18]. **Streams** [BH12]. **Strings** [Sch17]. **Strip** [AKPP17]. **Structural** [NS16, PW18b]. **Structure** [AJR16]. **Subexponential** [DFPV15]. **Subgraphs** [KPRR14]. **Subset** [GJL<sup>+</sup>16]. **Succinctly** [ESY14]. **Sum** [GJL<sup>+</sup>16, KS12]. **Superpolynomial** [FPS15]. **Systems** [CFM14, GM15, GL18, GR09, KLMS16].

**Terminal** [PW18a]. **Testability** [IY18]. **Testers** [GR16]. **Testing** [AFS<sup>+</sup>18, BC18, FGL16, MV18, PRV18]. **Tests** [LV18]. **Theorem** [PV12a, Wat14, Lau16, Raz09]. **Theoretical** [AG14, AG13]. **Theory** [AW09, BM15, KC12]. **Three** [GM12]. **Three-Query** [GM12]. **Threshold** [CHIS12]. **Tight** [Kom18]. **Time** [CT18, Kom18, Vid13]. **Tiny** [OWZ14]. **Tractability** [CL17]. **Tractable** [FFL<sup>+</sup>13, FHRS16]. **Tradeoffs** [HS10]. **Trading** [Wil13]. **Transform** [Ail16]. **Transformations** [FLOR15]. **Tree** [CMW<sup>+</sup>12, ES17, GJ14]. **Trichotomy** [GGJ17].

**UL** [DSS17]. **Unambiguous** [BTV09]. **uncertainty** [Dru13]. **Understanding**

[Che17]. **Uniform** [GM15]. **Unifying** [AB18]. **Unions** [GHPT14]. **Unique** [DKLM10]. **Uniqueness** [GL18]. **useful** [FJ14]. **usefulness** [AH13]. **Using** [FLOR15, RT16, BC18, KPRR14].

**Valiant** [AJR16]. **Value** [BH12, CFL14]. **Valued** [TZ18]. **Variables** [RT13]. **Verification** [PV12b]. **Verifying** [BDK<sup>+</sup>13]. **versus** [DSS17, GJPW18]. **Vertex** [ALMS18, FGMN11, Kom18]. **via** [DM13, KMS16]. **VNP** [Hru16]. **VNP-Completeness** [Hru16]. **vs** [Cha18].

**Way** [CEMT14]. **Weakness** [OS18]. **Weighing** [Pur11]. **Weighted** [FZ16]. **Weighting** [DSS17]. **Well** [Ail16]. **Width** [ES17]. **without** [BGV14, Wat12]. **Working** [PW18b]. **Worlds** [Wat12]. **Worst** [Wat12]. **Worst-Case** [Wat12]. **Write** [BH12].

**XOR** [RV15].

**Yielding** [PV12b].

## References

**Aydinlioglu:2018:ARU**

[AB18] Baris Aydinlioglu and Eric Bach. Affine relativization: Unifying the algebrization and relativization barriers. *ACM Transactions on Computation Theory*, 10(1):1:1–1:??, January 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Ada:2014:HBP**

[ACC<sup>+</sup>14] Anil Ada, Arkadev Chattopadhyay, Stephen A. Cook, Lila Fontes, Michal Koucký, and Toniann Pitassi. The hardness of

being private. *ACM Transactions on Computation Theory*, 6(1):1:1–1:??, March 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Anderson:2018:ITL**

[AFS<sup>+</sup>18] Matthew Anderson, Michael A. Forbes, Ramprasad Saptharishi, Amir Shpilka, and Ben Lee Volk. Identity testing and lower bounds for read- $k$  oblivious algebraic branching programs. *ACM Transactions on Computation Theory*, 10(1):3:1–3:??, January 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Allender:2013:ISI**

[AG13] Eric Allender and Shafi Goldwasser. Introduction to the special issue on innovations in theoretical computer science 2012. *ACM Transactions on Computation Theory*, 5(3):8:1–8:??, August 2013. ISSN 1942-3454 (print), 1942-3462 (electronic). Special issue on innovations in theoretical computer science 2012.

**Allender:2014:ISI**

[AG14] Eric Allender and Shafi Goldwasser. Introduction to the special issue on innovations in theoretical computer science 2012 — Part II. *ACM Transactions on Computation Theory*, 6(3):10:1–10:??, July 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Ambainis:2015:LBD**

- [AGSU15] Andris Ambainis, William Gasarch, Aravind Srinivasan, and Andrey Utis. Lower bounds on the deterministic and quantum communication complexity of Hamming-distance problems. *ACM Transactions on Computation Theory*, 7(3):10:1–10:??, July 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Austrin:2013:UP**

- [AH13] Per Austrin and Johan Håstad. On the usefulness of predicates. *ACM Transactions on Computation Theory*, 5(1):1:1–1:??, May 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Ailon:2016:OLR**

- [Ail16] Nir Ailon. An  $\Omega((n \log n)/R)$  lower bound for Fourier transform computation in the  $R$ -well conditioned model. *ACM Transactions on Computation Theory*, 8(1):4:1–4:??, February 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Awasthi:2014:LLF**

- [AJMR14] Pranjal Awasthi, Madhav Jha, Marco Molinaro, and Sofya Raskhodnikova. Limitations of local filters of Lipschitz and monotone functions. *ACM Transactions on Computation Theory*, 7(1):2:1–2:??, December 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Arvind:2016:NVC**

- V. Arvind, P. S. Joglekar, and S. Raja. Noncommutative Valiant’s classes: Structure and complete problems. *ACM Transactions on Computation Theory*, 9(1):3:1–3:??, December 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Adamaszek:2017:HAS**

- [AKPP17] Anna Adamaszek, Tomasz Kociumaka, Marcin Pilipczuk, and Michal Pilipczuk. Hardness of approximation for strip packing. *ACM Transactions on Computation Theory*, 9(3):14:1–14:??, October 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Agrawal:2018:SFV**

- [ALMS18] Akanksha Agrawal, Daniel Lokshтанov, Amer E. Mouawad, and Saket Saurabh. Simultaneous feedback vertex set: a parameterized perspective. *ACM Transactions on Computation Theory*, 10(4):18:1–18:??, October 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Austrin:2014:NNH**

- [AOTW14] Per Austrin, Ryan O’Donnell, Li-Yang Tan, and John Wright. New NP-hardness results for 3-coloring and 2-to-1 label cover. *ACM Transactions on Computation Theory*, 6(1):2:1–2:??, March 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

- Artemenko:2017:PGO**
- [AS17] Sergei Artemenko and Ronen Shaltiel. Pseudorandom generators with optimal seed length for non-Boolean poly-size circuits. *ACM Transactions on Computation Theory*, 9(2):6:1–6:??, May 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Arvind:2011:SGI**
- [AT11] Vikraman Arvind and Jacobo Torán. Solvable group isomorphism is (almost) in  $\text{NP} \cap \text{coNP}$ . *ACM Transactions on Computation Theory*, 2(2):4:1–4:??, March 2011. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Aaronson:2009:ANB**
- [AW09] Scott Aaronson and Avi Wigderson. Algebrization: a new barrier in complexity theory. *ACM Transactions on Computation Theory*, 1(1):2:1–2:??, February 2009. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Bhattacharyya:2018:PTJ**
- [BC18] Rishiraj Bhattacharyya and Sourav Chakraborty. Property testing of joint distributions using conditional samples. *ACM Transactions on Computation Theory*, 10(4):16:1–16:??, October 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Bliznets:2018:HAF**
- [BCKP18] Ivan Bliznets, Marek Cygan, Pawel Komosa, and Michal Pilipczuk. Hardness of approximation for  $H$ -free edge modification problems. *ACM Transactions on Computation Theory*, 10(2):9:1–9:??, May 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Beyersdorff:2013:VPC**
- [BDK<sup>+</sup>13] Olaf Beyersdorff, Samir Datta, Andreas Krebs, Meena Mahajan, Gido Scharfenberger-Fabian, Karteek Sreenivasiah, Michael Thomas, and Heribert Vollmer. Verifying proofs in constant depth. *ACM Transactions on Computation Theory*, 5(1):2:1–2:??, May 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Bhattacharyya:2017:LBC**
- [BG17] Arnab Bhattacharyya and Sivakanth Gopi. Lower bounds for constant query affine-invariant LCCs and LTCs. *ACM Transactions on Computation Theory*, 9(2):7:1–7:??, May 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Beyersdorff:2012:PBD**
- [BGLR12] Olaf Beyersdorff, Nicola Galesi, Massimo Lauria, and Alexander A. Razborov. Parameterized bounded-depth Frege is not optimal. *ACM Transactions on Computation Theory*, 4(3):7:1–7:??, September 2012. CODEN



???? ISSN 1942-3454 (print),  
1942-3462 (electronic).

**Beame:2016:NAF**

- [BGMS16] Paul Beame, Nathan Grosshans, Pierre McKenzie, and Luc Segoufin. Nondeterminism and an abstract formulation of Neciporuk’s lower bound method. *ACM Transactions on Computation Theory*, 9(1):5:1–5:??, December 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Brakerski:2014:LFH**

- [BGV14] Zvika Brakerski, Craig Gentry, and Vinod Vaikuntanathan. (leveled) fully homomorphic encryption without bootstrapping. *ACM Transactions on Computation Theory*, 6(3):13:1–13:??, July 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Beame:2012:VMR**

- [BH12] Paul Beame and Trinh Huynh. The value of multiple Read/write streams for approximating frequency moments. *ACM Transactions on Computation Theory*, 3(2):6:1–6:??, January 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Beame:2010:FCD**

- [BIPS10] Paul Beame, Russell Impagliazzo, Toniann Pitassi, and Nathan Segerlind. Formula caching in DPLL. *ACM Transactions on Computation Theory*,

1(3):9:1–9:??, March 2010. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Boczkowski:2018:SCP**

- [BKM18] Lucas Boczkowski, Iordanis Kerenidis, and Frédéric Magniez. Streaming communication protocols. *ACM Transactions on Computation Theory*, 10(4):19:1–19:??, October 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Bogdanov:2013:HFL**

- [BKT13] Andrej Bogdanov, Akinori Kawachi, and Hidetoki Tanaka. Hard functions for low-degree polynomials over prime fields. *ACM Transactions on Computation Theory*, 5(2):5:1–5:??, July 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Blaser:2015:SCT**

- [BM15] Markus Bläser and Bodo Manthey. Smoothed complexity theory. *ACM Transactions on Computation Theory*, 7(2):6:1–6:??, May 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Ben-Sasson:2009:SQP**

- [BSHLM09] Eli Ben-Sasson, Prahladh Harsha, Oded Lachish, and Arie Matsliah. Sound 3-query PCPPs are long. *ACM Transactions on Computation Theory*, 1(2):7:1–7:??, September 2009. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

- Bourke:2009:DPR**
- [BTV09] Chris Bourke, Raghunath Tewari, and N. V. Vinodchandran. Directed planar reachability is in unambiguous log-space. *ACM Transactions on Computation Theory*, 1(1):4:1–4:??, February 2009. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). [Cha18]
- Cook:2014:OWF**
- [CEMT14] James Cook, Omid Etesami, Rachel Miller, and Luca Trevisan. On the one-way function candidate proposed by Goldreich. *ACM Transactions on Computation Theory*, 6(3):14:1–14:??, July 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). [Che17]
- Cook:2014:CCC**
- [CFL14] Stephen A. Cook, Yuval Filmus, and Dai Tri Man Lê. The complexity of the comparator circuit value problem. *ACM Transactions on Computation Theory*, 6(4):15:1–15:??, August 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). [CHIS12]
- Chen:2014:HIA**
- [CFM14] Yijia Chen, Jörg Flum, and Moritz Müller. Hard instances of algorithms and proof systems. *ACM Transactions on Computation Theory*, 6(2):7:1–7:??, May 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). [CKK16]
- Chang:2018:MMS**
- Ching-Lueh Chang. Metric 1-median selection: Query complexity vs. approximation ratio. *ACM Transactions on Computation Theory*, 9(4):20:1–20:??, January 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Chen:2017:PCM**
- Hubie Chen. Proof complexity modulo the polynomial hierarchy: Understanding alternation as a source of hardness. *ACM Transactions on Computation Theory*, 9(3):15:1–15:??, October 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Cheraghchi:2012:ALT**
- Mahdi Cheraghchi, Johan Håstad, Marcus Isaksson, and Ola Svensson. Approximating linear threshold predicates. *ACM Transactions on Computation Theory*, 4(1):2:1–2:??, March 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Caragiannis:2016:LDA**
- Ioannis Caragiannis, Christos Kaklamanis, and Maria Kyropoulou. Limitations of deterministic auction design for correlated bidders. *ACM Transactions on Computation Theory*, 8(4):13:1–13:??, July 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Cygan:2014:CCG**

- [CKP<sup>+</sup>14] Marek Cygan, Stefan Kratsch, Marcin Pilipczuk, Michal Pilipczuk, and Magnus Wahlström. Clique cover and graph separation: New incompressibility results. *ACM Transactions on Computation Theory*, 6(2):6:1–6:??, May 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Case:2015:MD**

- [CL15] Adam Case and Jack H. Lutz. Mutual dimension. *ACM Transactions on Computation Theory*, 7(3):12:1–12:??, July 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Chen:2017:AMC**

- [CL17] Hubie Chen and Benoit Larose. Asking the metaquestions in constraint tractability. *ACM Transactions on Computation Theory*, 9(3):11:1–11:??, October 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Chen:2015:FCC**

- [CM15] Hubie Chen and Moritz Müller. The fine classification of conjunctive queries and parameterized logarithmic space. *ACM Transactions on Computation Theory*, 7(2):7:1–7:??, May 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Cook:2012:PBP**

- [CMW<sup>+</sup>12] Stephen Cook, Pierre McKenzie, Dustin Wehr, Mark Braverman, and Rahul Santhanam. Pebbles

and branching programs for tree evaluation. *ACM Transactions on Computation Theory*, 3(2):4:1–4:??, January 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Cygan:2013:MCP**

- [CPPW13] Marek Cygan, Marcin Pilipczuk, Michal Pilipczuk, and Jakub Onufry Wojtaszczyk. On multiway cut parameterized above lower bounds. *ACM Transactions on Computation Theory*, 5(1):3:1–3:??, May 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Chakraborty:2018:SPT**

- [CT18] Diptarka Chakraborty and Raghunath Tewari. An  $O(n\epsilon)$  space and polynomial time algorithm for reachability in directed layered planar graphs. *ACM Transactions on Computation Theory*, 9(4):19:1–19:??, January 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Chattopadhyay:2013:GIA**

- [CTW13] Arkadev Chattopadhyay, Jacobo Torán, and Fabian Wagner. Graph isomorphism is not  $AC^0$ -reducible to group isomorphism. *ACM Transactions on Computation Theory*, 5(4):13:1–13:??, November 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Drange:2015:ESC**

- [DFPV15] Pål Grønås Drange, Fedor V. Fomin, Michal Pilipczuk, and

Yngve Villanger. Exploring the subexponential complexity of completion problems. *ACM Transactions on Computation Theory*, 7(4):14:1–14:??, September 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Dalmau:2013:RSC**

[DK13] Víctor Dalmau and Andrei Krokhin. Robust satisfiability for CSPs: Hardness and algorithmic results. *ACM Transactions on Computation Theory*, 5(4):15:1–15:??, November 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Datta:2010:PDP**

[DKLM10] Samir Datta, Raghav Kulkarni, Nutan Limaye, and Meena Mahajan. Planarity, determinants, permanents, and (unique) matchings. *ACM Transactions on Computation Theory*, 1(3):10:1–10:??, March 2010. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**De:2013:EOH**

[DM13] Anindya De and Elchanan Mossel. Explicit optimal hardness via Gaussian stability results. *ACM Transactions on Computation Theory*, 5(4):14:1–14:??, November 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**David:2009:ISB**

[DPV09] Matei David, Toniann Pitassi, and Emanuele Viola. Improved

separations between nondeterministic and randomized multiparty communication. *ACM Transactions on Computation Theory*, 1(2):5:1–5:??, September 2009. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Drucker:2013:HCP**

[Dru13] Andrew Drucker. High-confidence predictions under adversarial uncertainty. *ACM Transactions on Computation Theory*, 5(3):12:1–12:??, August 2013. ISSN 1942-3454 (print), 1942-3462 (electronic). Special issue on innovations in theoretical computer science 2012.

**Dhayal:2017:MMP**

[DSS17] Anant Dhayal, Jayalal Sarma, and Saurabh Sawlani. Min/max-poly weighting schemes and the NL versus UL problem. *ACM Transactions on Computation Theory*, 9(2):10:1–10:??, May 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**De:2012:ELB**

[DW12] Anindya De and Thomas Watson. Extractors and lower bounds for locally samplable sources. *ACM Transactions on Computation Theory*, 4(1):3:1–3:??, March 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Englert:2013:EC**

[ERSV13] Matthias Englert, Heiko Röglin, Jacob Spönmann, and Berthold

- Vöcking. Economical caching. *ACM Transactions on Computation Theory*, 5(2):4:1–4:??, July 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [ES17] Michael Elberfeld and Pascal Schweitzer. Canonizing graphs of bounded tree width in logspace. *ACM Transactions on Computation Theory*, 9(3):12:1–12:??, October 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [ESY14] Kousha Etessami, Alistair Stewart, and Mihalis Yannakakis. A note on the complexity of comparing succinctly represented integers, with an application to maximum probability parsing. *ACM Transactions on Computation Theory*, 6(2):9:1–9:??, May 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [FGL16] Eldar Fischer, Yonatan Goldhirsh, and Oded Lachish. Testing read-once formula satisfaction. *ACM Transactions on Computation Theory*, 8(2):5:1–5:??, May 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [FGMN11] Michael R. Fellows, Jiong Guo, Hannes Moser, and Rolf Niedermeier. A complexity dichotomy for finding disjoint solutions of vertex deletion problems. *ACM Transactions on Computation Theory*, 2(2):5:1–5:??, March 2011. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [FHRS16] Michael R. Fellows, Danny Hermelin, Frances Rosamond, and Hadas Shachnai. Tractable parameterizations for the minimum linear arrangement problem. *ACM Transactions on Computation Theory*, 8(2):6:1–6:??, May 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [FJ14] Michael R. Fellows and Bart M. P. Jansen. FPT is characterized by useful obstruction sets: Connecting algorithms, kernels, and quasi-orders. *ACM Transactions on Computation Theory*, 6(4):16:1–16:??, August 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [FFL<sup>+</sup>13] Michael Fellows, Fedor V. Fomin, Daniel Lokshantov, Elena Losievskaja, Frances Rosamond, and Saket Saurabh. Distortion is fixed parameter tractable. *ACM Transactions on Computation Theory*, 5(4):16:1–16:??, November 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Fischer:2016:TRO****Elberfeld:2017:CGB****Fellows:2011:CDF****Etessami:2014:NCC****Fellows:2016:TPM****Fellows:2013:DFP****Fellows:2014:FCU**

DEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Fontes:2016:RDD**

- [FJK<sup>+</sup>16] Lila Fontes, Rahul Jain, Iordanis Kerenidis, Sophie Laplante, Mathieu Laurière, and Jérémie Roland. Relative discrepancy does not separate information and communication complexity. *ACM Transactions on Computation Theory*, 9(1):4:1–4:??, December 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Filmus:2018:IPS**

- [FKMW18] Yuval Filmus, Guy Kindler, Elchanan Mossel, and Karl Wimmer. Invariance principle on the slice. *ACM Transactions on Computation Theory*, 10(3):11:1–11:??, June 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Fernau:2015:UPT**

- [FLOR15] Henning Fernau, Alejandro López-Ortiz, and Jazmín Romero. Using parametric transformations toward polynomial kernels for packing problems allowing overlaps. *ACM Transactions on Computation Theory*, 7(3):13:1–13:??, July 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Fortnow:2009:EF**

- [For09] Lance Fortnow. Editor’s foreword. *ACM Transactions on Computation Theory*, 1(1):1:1–1:??, February 2009. CODEN

???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Filmus:2015:ELB**

- [FPS15] Yuval Filmus, Toniann Pitassi, and Rahul Santhanam. Exponential lower bounds for AC0-Frege imply superpolynomial Frege lower bounds. *ACM Transactions on Computation Theory*, 7(2):5:1–5:??, May 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Fulla:2016:GCW**

- [FZ16] Peter Fulla and Stanislav Zivný. A Galois connection for weighted (relational) clones of infinite size. *ACM Transactions on Computation Theory*, 8(3):9:1–9:??, May 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Galanis:2017:CTA**

- [GGJ17] Andreas Galanis, Leslie Ann Goldberg, and Mark Jerrum. A complexity trichotomy for approximately counting list  $H$ -colorings. *ACM Transactions on Computation Theory*, 9(2):9:1–9:??, May 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Gobel:2014:CCH**

- [GGR14] Andreas Göbel, Leslie Ann Goldberg, and David Richerby. The complexity of counting homomorphisms to cactus graphs modulo 2. *ACM Transactions on Computation Theory*, 6(4):17:1–17:??, August 2014. CODEN

???? ISSN 1942-3454 (print),  
1942-3462 (electronic).

**Gobel:2016:CHS**

- [GGR16] Andreas Göbel, Leslie Ann Goldberg, and David Richerby. Counting homomorphisms to square-free graphs, modulo 2. *ACM Transactions on Computation Theory*, 8(3):12:1–12:??, May 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Ganardi:2018:CEF**

- [GHKL18] Moses Ganardi, Danny Hucke, Daniel König, and Markus Lohrey. Circuits and expressions over finite semirings. *ACM Transactions on Computation Theory*, 10(4):15:1–15:??, October 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Glasser:2014:UDN**

- [GHPT14] Christian Glaßer, John M. Hitchcock, A. Pavan, and Stephan Travers. Unions of disjoint NP-complete sets. *ACM Transactions on Computation Theory*, 6(1):3:1–3:??, March 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Goldberg:2014:CAC**

- [GJ14] Leslie Ann Goldberg and Mark Jerrum. The complexity of approximately counting tree homomorphisms. *ACM Transactions on Computation Theory*, 6(2):8:1–8:??, May 2014. CODEN

???? ISSN 1942-3454 (print),  
1942-3462 (electronic).

**Gal:2016:SEA**

- [GJL<sup>+</sup>16] Anna Gál, Jing-Tang Jang, Nutan Limaye, Meena Mahajan, and Karteek Sreenivasaiah. Space-efficient approximations for subset sum. *ACM Transactions on Computation Theory*, 8(4):16:1–16:??, July 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Goos:2018:RCV**

- [GJPW18] Mika Göös, T. S. Jayram, Toniann Pitassi, and Thomas Watson. Randomized communication versus partition number. *ACM Transactions on Computation Theory*, 10(1):4:1–4:??, January 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Gurjar:2016:PGP**

- [GKM<sup>+</sup>16] Rohit Gurjar, Arpita Korwar, Jochen Messner, Simon Straub, and Thomas Thierauf. Planarizing gadgets for perfect matching do not exist. *ACM Transactions on Computation Theory*, 8(4):14:1–14:??, July 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Gurjar:2017:EPM**

- [GKMT17] Rohit Gurjar, Arpita Korwar, Jochen Messner, and Thomas Thierauf. Exact perfect matching in complete graphs. *ACM Transactions on Computation Theory*,

- 9(2):8:1–8:??, May 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [GL18] Heng Guo and Pinyan Lu. Uniqueness, spatial mixing, and approximation for ferromagnetic 2-spin systems. *ACM Transactions on Computation Theory*, 10(4):17:1–17:??, October 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [GR09] Venkatesan Guruswami and Prasad Raghavendra. Hardness of solving sparse overdetermined linear systems: a 3-query PCP over integers. *ACM Transactions on Computation Theory*, 1(2):6:1–6:??, September 2009. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [GM12] Anna Gal and Andrew Mills. Three-query locally decodable codes with higher correctness require exponential length. *ACM Transactions on Computation Theory*, 3(2):5:1–5:??, January 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [GM15] Oded Goldreich and Or Meir. Input-oblivious proof systems and a uniform complexity perspective on P/poly. *ACM Transactions on Computation Theory*, 7(4):16:1–16:??, September 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [GMPS14] Gianluigi Greco, Enrico Malizia, Luigi Palopoli, and Francesco Scarcello. The complexity of the nucleolus in compact games. *ACM Transactions on Computation Theory*, 7(1):3:1–3:??, December 2014. CODEN ????
- [GR16] Oded Goldreich and Dana Ron. On sample-based testers. *ACM Transactions on Computation Theory*, 8(2):7:1–7:??, May 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [GS18] Sevag Gharibian and Jamie Sikora. Ground state connectivity of local Hamiltonians. *ACM Transactions on Computation Theory*, 10(2):8:1–8:??, May 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [HH13] Ryan C. Harkins and John M. Hitchcock. Exact learning algorithms, betting games, and circuit lower bounds. *ACM Transactions on Computation Theory*, 5(4):18:1–18:??, November 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Guo:2018:USM****Guruswami:2009:HSS****Gal:2012:TQL****Goldreich:2016:SBT****Goldreich:2015:IOP****Gharibian:2018:GSC****Greco:2014:CNC****Harkins:2013:ELA**



- [HPV11] **Hitchcock:2011:KCR**  
John M. Hitchcock, A. Pavan, and N. V. Vinodchandran. Kolmogorov complexity in randomness extraction. *ACM Transactions on Computation Theory*, 3(1):1:1–1:??, August 2011. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [HR16] **Haviv:2016:LDS**  
Ishay Haviv and Oded Regev. The list-decoding size of Fourier-sparse Boolean functions. *ACM Transactions on Computation Theory*, 8(3):10:1–10:??, May 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [Hru16] **Hrubes:2016:HMV**  
P. Hrubes. On hardness of multilinearization and VNP-completeness in characteristic 2. *ACM Transactions on Computation Theory*, 9(1):1:1–1:??, December 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [HS10] **Hoefler:2010:TAC**  
Martin Hoefler and Alexander Souza. Tradeoffs and average-case equilibria in selfish routing. *ACM Transactions on Computation Theory*, 2(1):2:1–2:??, November 2010. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [IY18] **Iwama:2018:PT**  
Kazuo Iwama and Yuichi Yoshida. Parameterized testability. *ACM Transactions on Computation Theory*, 9(4):16:1–16:??, January 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [JM15] **Jerrum:2015:SHF**  
Mark Jerrum and Kitty Meeks. Some hard families of parameterized counting problems. *ACM Transactions on Computation Theory*, 7(3):11:1–11:??, July 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [KC12] **Kawamura:2012:CTO**  
Akitoshi Kawamura and Stephen Cook. Complexity theory for operators in analysis. *ACM Transactions on Computation Theory*, 4(2):5:1–5:??, May 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [KLMS16] **Krebs:2016:SDP**  
Andreas Krebs, Nutan Limaye, Meena Mahajan, and Karteek Sreenivasaiah. Small depth proof systems. *ACM Transactions on Computation Theory*, 9(1):2:1–2:??, December 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [KMS16] **Kumar:2016:ACL**  
Mrinal Kumar, Gaurav Maheshwari, and Jayalal Sarma. Arithmetic circuit lower bounds via maximum-rank of partial derivative matrices. *ACM Transactions on Computation Theory*, 8(3):8:1–8:??, May 2016. CODEN

???? ISSN 1942-3454 (print),  
1942-3462 (electronic).

**Kratsch:2016:PCK**

- [KMW16] Stefan Kratsch, Dániel Marx,  
and Magnus Wahlström. Parameterized complexity and kernelizability of max ones and exact ones problems. *ACM Transactions on Computation Theory*, 8(1):1:1–1:??, February 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Komusiewicz:2018:TRT**

- [Kom18] Christian Komusiewicz. Tight running time lower bounds for vertex deletion problems. *ACM Transactions on Computation Theory*, 10(2):6:1–6:??, May 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Kratsch:2014:KLB**

- [KPRR14] Stefan Kratsch, Marcin Pilipczuk,  
Ashutosh Rai, and Venkatesh Raman. Kernel lower bounds using co-nondeterminism: Finding induced hereditary subgraphs. *ACM Transactions on Computation Theory*, 7(1):4:1–4:??, December 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Kayal:2012:SSR**

- [KS12] Neeraj Kayal and Chandan Saha. On the sum of square roots of polynomials and related problems. *ACM Transactions on Computation Theory*, 4(4):9:1–9:??, November 2012. CODEN

???? ISSN 1942-3454 (print),  
1942-3462 (electronic).

**Kanade:2014:LHS**

- [KS14] Varun Kanade and Thomas Steinke. Learning hurdles for sleeping experts. *ACM Transactions on Computation Theory*, 6(3):11:1–11:??, July 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Komarath:2015:PEB**

- [KS15] Balagopal Komarath and Jayalal Sarma. Pebbling, entropy, and branching program size lower bounds. *ACM Transactions on Computation Theory*, 7(2):8:1–8:??, May 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Kulkarni:2011:PIP**

- [Kul11] Raghav Kulkarni. On the power of isolation in planar graphs. *ACM Transactions on Computation Theory*, 3(1):2:1–2:??, August 2011. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Kyncl:2010:LRD**

- [KV10] Jan Kynčl and Tomáš Vyskočil. Logspace reduction of directed reachability for bounded genus graphs to the planar case. *ACM Transactions on Computation Theory*, 1(3):8:1–8:??, March 2010. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

- [Lau16] Massimo Lauria. A rank lower bound for cutting planes proofs of Ramsey’s Theorem. *ACM Transactions on Computation Theory*, 8(4):17:1–17:??, July 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Lauria:2016:RLB**
- [LL18] Jack H. Lutz and Neil Lutz. Algorithmic information, plane Kakeya sets, and conditional dimension. *ACM Transactions on Computation Theory*, 10(2):7:1–7:??, May 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Lutz:2018:AIP**
- [LV18] Chin Ho Lee and Emanuele Viola. The coin problem for product tests. *ACM Transactions on Computation Theory*, 10(3):14:1–14:??, June 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Lee:2018:CPP**
- [MV18] Daniel Minahan and Ilya Volkovich. Complete derandomization of identity testing and reconstruction of read-once formulas. *ACM Transactions on Computation Theory*, 10(3):10:1–10:??, June 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Minahan:2018:CDI**
- [NS16] Dung Nguyen and Alan L. Selman. Structural properties of nonautoreducible sets. *ACM Transactions on Computation Theory*, 8(3):11:1–11:??, May 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Ozols:2013:QRS**
- [ORR13] Maris Ozols, Martin Roetteler, and Jérémie Roland. Quantum rejection sampling. *ACM Transactions on Computation Theory*, 5(3):11:1–11:??, August 2013. ISSN 1942-3454 (print), 1942-3462 (electronic). Special issue on innovations in theoretical computer science 2012. **ODonnell:2018:WCQ**
- [OS18] Ryan O’Donnell and A. C. Cem Say. The weakness of CTC qubits and the power of approximate counting. *ACM Transactions on Computation Theory*, 10(2):5:1–5:??, May 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **ODonnell:2014:OLB**
- [OWZ14] Ryan O’Donnell, Yi Wu, and Yuan Zhou. Optimal lower bounds for locality-sensitive hashing (except when  $q$  is tiny). *ACM Transactions on Computation Theory*, 6(1):5:1–5:??, March 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **ODonnell:2015:HMM**
- [OWZ15] Ryan O’Donnell, Yi Wu, and Yuan Zhou. Hardness of Max-2Lin and Max-3Lin over integers,

reals, and large cyclic groups. *ACM Transactions on Computation Theory*, 7(2):9:1–9:??, May 2015. CODEN ????? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Pagh:2013:CMM**

[Pag13]

Rasmus Pagh. Compressed matrix multiplication. *ACM Transactions on Computation Theory*, 5(3):9:1–9:??, August 2013. ISSN 1942-3454 (print), 1942-3462 (electronic). Special issue on innovations in theoretical computer science 2012.

**Pallavoor:2018:PPT**

[PRV18]

Ramesh Krishnan S. Pallavoor, Sofya Raskhodnikova, and Nithin Varma. Parameterized property testing of functions. *ACM Transactions on Computation Theory*, 9(4):17:1–17:??, January 2018. CODEN ????? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Purdy:2011:LBC**

[Pur11]

Eric Purdy. Lower bounds for coin-weighing problems. *ACM Transactions on Computation Theory*, 2(2):3:1–3:??, March 2011. CODEN ????? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Pass:2012:PRT**

[PV12a]

Rafael Pass and Muthuramakrishnan Venkatasubramanian. A parallel repetition theorem for constant-round Arthur–Merlin proofs. *ACM Transactions on*

*Computation Theory*, 4(4):10:1–10:??, November 2012. CODEN ????? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Penna:2012:CRM**

[PV12b]

Paolo Penna and Carmine Ventre. Collusion-resistant mechanisms with verification yielding optimal solutions. *ACM Transactions on Computation Theory*, 4(2):6:1–6:??, May 2012. CODEN ????? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Pilipczuk:2018:DMW**

[PW18a]

Marcin Pilipczuk and Magnus Wahlström. Directed multicut is  $W[1]$ -hard, even for four terminal pairs. *ACM Transactions on Computation Theory*, 10(3):13:1–13:??, June 2018. CODEN ????? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Pilipczuk:2018:SEA**

[PW18b]

Michal Pilipczuk and Marcin Wrochna. On space efficiency of algorithms working on structural decompositions of graphs. *ACM Transactions on Computation Theory*, 9(4):18:1–18:??, January 2018. CODEN ????? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Razborov:2009:SPB**

[Raz09]

Alexander Razborov. A simple proof of Bazzi’s Theorem. *ACM Transactions on Computation Theory*, 1(1):3:1–3:??, February 2009. CODEN ????? ISSN 1942-

3454 (print), 1942-3462 (electronic).

**Ron:2012:AIM**

- [RRS<sup>+</sup>12] Dana Ron, Ronitt Rubinfeld, Muli Safra, Alex Samorodnitsky, and Omri Weinstein. Approximating the influence of monotone Boolean functions in  $O(\sqrt{n})$  query complexity. *ACM Transactions on Computation Theory*, 4(4):11:1–11:??, November 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). [Sch16]

**Ron:2013:ANR**

- [RT13] Dana Ron and Gilad Tsur. On approximating the number of relevant variables in a function. *ACM Transactions on Computation Theory*, 5(2):7:1–7:??, July 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). [Sch17]

**Ron:2016:PEH**

- [RT16] Dana Ron and Gilad Tsur. The power of an example: Hidden set size approximation using group queries and conditional sampling. *ACM Transactions on Computation Theory*, 8(4):15:1–15:??, July 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). [Smy11]

**Razborov:2013:RA**

- [RV13] Alexander Razborov and Emanuele Viola. Real advantage. *ACM Transactions on Computation Theory*, 5(4):17:1–17:??, November 2013. CODEN ???? ISSN

1942-3454 (print), 1942-3462 (electronic).

**Regev:2015:QXG**

Oded Regev and Thomas Vidick. Quantum XOR games. *ACM Transactions on Computation Theory*, 7(4):15:1–15:??, September 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Schmitz:2016:CHB**

Sylvain Schmitz. Complexity hierarchies beyond elementary. *ACM Transactions on Computation Theory*, 8(1):3:1–3:??, February 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Schmid:2017:FCS**

Markus L. Schmid. Finding consensus strings with small length difference between input and solution strings. *ACM Transactions on Computation Theory*, 9(3):13:1–13:??, October 2017. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Smyth:2011:AQC**

Clifford Smyth. Approximate query complexity. *ACM Transactions on Computation Theory*, 3(1):3:1–3:??, August 2011. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).

**Schoenebeck:2012:CCN**

Grant R. Schoenebeck and Salil Vadhan. The computational complexity of Nash equilibria

- in concisely represented games. *ACM Transactions on Computation Theory*, 4(2):4:1–4:??, May 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- [SZ14] Shu-Ming Sun and Ning Zhong. On effective convergence of numerical solutions for differential equations. *ACM Transactions on Computation Theory*, 6(1):4:1–4:??, March 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Sun:2014:ECN** [Val14]
- [TKM12] Seiichiro Tani, Hirotada Kobayashi, and Keiji Matsumoto. Exact quantum algorithms for the leader election problem. *ACM Transactions on Computation Theory*, 4(1):1:1–1:??, March 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Tani:2012:EQA** [Vid13]
- [TZ15] Jason Teutsch and Marius Zimand. On approximate decidability of minimal programs. *ACM Transactions on Computation Theory*, 7(4):17:1–17:??, September 2015. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Teutsch:2015:ADM** [Vio16]
- [TZ18] Johan Thapper and Stanislav Zivný. The limits of SDP relaxations for general-valued CSPs. *ACM Transactions on Computation Theory*, 10(3):12:1–12:??, June 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Valiant:2014:ERF**
- Paul Valiant. Evolvability of real functions. *ACM Transactions on Computation Theory*, 6(3):12:1–12:??, July 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Viderman:2013:LTD**
- Michael Viderman. Linear-time decoding of regular expander codes. *ACM Transactions on Computation Theory*, 5(3):10:1–10:??, August 2013. ISSN 1942-3454 (print), 1942-3462 (electronic). Special issue on innovations in theoretical computer science 2012. **Viola:2016:QMH**
- [VLB12] Nikos Vlassis, Michael L. Littman, and David Barber. On the computational complexity of stochastic controller optimization in POMDPs. *ACM Transactions on Computation Theory*, 4(4):12:1–12:??, November 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic). **Vlassis:2012:CCS**

- Volkovich:2016:CAR**
- [Vol16] Ilya Volkovich. Characterizing arithmetic read-once formulae. *ACM Transactions on Computation Theory*, 8(1):2:1–2:??, February 2016. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Watson:2012:RWW**
- [Wat12] Thomas Watson. Relativized worlds without worst-case to average-case reductions for NP. *ACM Transactions on Computation Theory*, 4(3):8:1–8:??, September 2012. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Watson:2014:ALB**
- [Wat14] Thomas Watson. Advice lower bounds for the dense model theorem. *ACM Transactions on Computation Theory*, 7(1):1:1–1:??, December 2014. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Watson:2018:CCS**
- [Wat18] Thomas Watson. Communication complexity of statistical distance. *ACM Transactions on Computation Theory*, 10(1):2:1–2:??, January 2018. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Williams:2013:ATP**
- [Wil13] Ryan Williams. Alternation-trading proofs, linear programming, and lower bounds. *ACM Transactions on Computation Theory*, 5(2):6:1–6:??, July 2013. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).
- Yin:2010:CPP**
- [Yin10] Yitong Yin. Cell-probe proofs. *ACM Transactions on Computation Theory*, 2(1):1:1–1:??, November 2010. CODEN ???? ISSN 1942-3454 (print), 1942-3462 (electronic).