

Arya Mazumdar

List of Publications by Year in descending order

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41
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422
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | vqSGD: Vector Quantized Stochastic Gradient Descent. IEEE Transactions on Information Theory, 2022, 68, 4573-4587. | 2.4 | 7 |
| 2 | Semisupervised Clustering by Queries and Locally Encodable Source Coding. IEEE Transactions on Information Theory, 2021, 67, 1141-1155. | 2.4 | 2 |
| 3 | Trace Reconstruction: Generalized and Parameterized. IEEE Transactions on Information Theory, 2021, 67, 3233-3250. | 2.4 | 4 |
| 4 | Probabilistic Group Testing with a Linear Number of Tests. , 2021, , . | | 3 |
| 5 | Communication-Efficient and Byzantine-Robust Distributed Learning With Error Feedback. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 942-953. | 2.5 | 10 |
| 6 | Communication Efficient and Byzantine Tolerant Distributed Learning. , 2020, , . | | 4 |
| 7 | Communication-Efficient and Byzantine-Robust Distributed Learning. , 2020, , . | | 3 |
| 8 | Storage Capacity as an Information-Theoretic Vertex Cover and the Index Coding Rate. IEEE Transactions on Information Theory, 2019, 65, 5580-5591. | 2.4 | 8 |
| 9 | Linear Programming Approximations for Index Coding. IEEE Transactions on Information Theory, 2019, 65, 5547-5564. | 2.4 | 2 |
| 10 | Learning and Recovery in the ReLU Model. , 2019, , . | | 7 |
| 11 | Capacity of Locally Recoverable Codes. , 2018, , . | | 2 |
| 12 | Novel Impossibility Results for Group-Testing. , 2018, , . | | 10 |
| 13 | Combinatorial Alphabet-Dependent Bounds for Locally Recoverable Codes. IEEE Transactions on Information Theory, 2018, 64, 3481-3492. | 2.4 | 36 |
| 14 | Low rank approximation and decomposition of large matrices using error correcting codes. IEEE Transactions on Information Theory, 2017, , 1-1. | 2.4 | 3 |
| 15 | Estimation of sparsity via simple measurements. , 2017, , . | | 2 |
| 16 | Storage capacity as an information-theoretic analogue of vertex cover. , 2017, , . | | 1 |
| 17 | Group Testing Schemes From Codes and Designs. IEEE Transactions on Information Theory, 2017, 63, 7131-7141. | 2.4 | 8 |
| 18 | Local Partial Clique and Cycle Covers for Index Coding. , 2016, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Bounds on the rate of linear locally repairable codes over small alphabets. , 2016, , . | | 3 |
| 20 | Nonadaptive Group Testing With Random Set of Defectives. IEEE Transactions on Information Theory, 2016, 62, 7522-7531. | 2.4 | 32 |
| 21 | Index coding and local partial clique covers. , 2016, , . | | 1 |
| 22 | Group testing schemes from low-weight codewords of BCH codes. , 2016, , . | | 2 |
| 23 | Security in Locally Repairable Storage. IEEE Transactions on Information Theory, 2016, 62, 6204-6217. | 2.4 | 14 |
| 24 | Hamming codes as error-reducing codes. , 2016, , . | | 12 |
| 25 | Cooperative local repair in distributed storage. Eurasip Journal on Advances in Signal Processing, 2015, 2015, . | 1.7 | 34 |
| 26 | Alphabet-size dependent bounds for exact repair in distributed storage. , 2015, , . | | 3 |
| 27 | Local recovery in data compression for general sources. , 2015, , . | | 11 |
| 28 | Security in locally repairable storage. , 2015, , . | | 6 |
| 29 | Storage Capacity of Repairable Networks. IEEE Transactions on Information Theory, 2015, 61, 5810-5821. | 2.4 | 29 |
| 30 | Bounds on the Size of Locally Recoverable Codes. IEEE Transactions on Information Theory, 2015, 61, 5787-5794. | 2.4 | 118 |
| 31 | Restricted Isometry Property of Random Subdictionaries. IEEE Transactions on Information Theory, 2015, 61, 4440-4450. | 2.4 | 17 |
| 32 | Compression in the Space of Permutations. IEEE Transactions on Information Theory, 2015, 61, 6417-6431. | 2.4 | 12 |
| 33 | Achievable schemes and limits for local recovery on a graph. , 2014, , . | | 3 |
| 34 | On a duality between recoverable distributed storage and index coding. , 2014, , . | | 28 |
| 35 | Update-Efficiency and Local Repairability Limits for Capacity Approaching Codes. IEEE Journal on Selected Areas in Communications, 2014, 32, 976-988. | 14.0 | 28 |
| 36 | An upper bound on the size of locally recoverable codes. , 2013, , . | | 67 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Covering arbitrary point patterns. , 2012, , . | | 8 |
| 38 | Sparse recovery properties of statistical RIP matrices. , 2011, , . | | 7 |
| 39 | Coding for High-Density Recording on a 1-D Granular Magnetic Medium. IEEE Transactions on Information Theory, 2011, 57, 7403-7417. | 2.4 | 25 |
| 40 | Codes in Permutations and Error Correction for Rank Modulation. IEEE Transactions on Information Theory, 2010, 56, 3158-3165. | 2.4 | 120 |