

Viveck R Cadambe

List of Publications by Year in descending order

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28
papers

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1163117

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28
times ranked

342
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Numerically Stable Polynomially Coded Computing. IEEE Transactions on Information Theory, 2021, 67, 2758-2785. | 2.4 | 25 |
| 2 | E-Approximate Coded Matrix Multiplication is Nearly Twice as Efficient as Exact Multiplication. , 2021, , . | | 1 |
| 3 | <i>μ</i>-Approximate Coded Matrix Multiplication Is Nearly Twice as Efficient as Exact Multiplication. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 845-854. | 2.5 | 8 |
| 4 | On the Optimal Recovery Threshold of Coded Matrix Multiplication. IEEE Transactions on Information Theory, 2020, 66, 278-301. | 2.4 | 146 |
| 5 | Fundamental Limits of Erasure-Coded Key-Value Stores With Side Information. IEEE Transactions on Communications, 2020, 68, 4126-4140. | 7.8 | 0 |
| 6 | Addressing Unreliability in Emerging Devices and Non-von Neumann Architectures Using Coded Computing. Proceedings of the IEEE, 2020, 108, 1219-1234. | 21.3 | 12 |
| 7 | 3D Coded SUMMA: Communication-Efficient and Robust Parallel Matrix Multiplication. Lecture Notes in Computer Science, 2020, , 392-407. | 1.3 | 0 |
| 8 | CassandrEAS: Highly Available and Storage-Efficient Distributed Key-Value Store with Erasure Coding. , 2020, , . | | 1 |
| 9 | âœShort-Dotâœ Computing Large Linear Transforms Distributedly Using Coded Short Dot Products. IEEE Transactions on Information Theory, 2019, 65, 6171-6193. | 2.4 | 75 |
| 10 | Numerically Stable Polynomially Coded Computing. , 2019, , . | | 27 |
| 11 | Harnessing Correlations in Distributed Erasure-Coded Key-Value Stores. IEEE Transactions on Communications, 2019, 67, 5907-5920. | 7.8 | 2 |
| 12 | Lagrange Coded Computing with Sparsity Constraints. , 2019, , . | | 15 |
| 13 | Multi-Version CodingâœAn Information-Theoretic Perspective of Consistent Distributed Storage. IEEE Transactions on Information Theory, 2018, 64, 4540-4561. | 2.4 | 9 |
| 14 | Multi-version Coding with Side Information. , 2018, , . | | 2 |
| 15 | Cross-Iteration Coded Computing. , 2018, , . | | 10 |
| 16 | Codes for Distributed Finite Alphabet Matrix-Vector Multiplication. , 2018, , . | | 17 |
| 17 | A coded shared atomic memory algorithm for message passing architectures. Distributed Computing, 2017, 30, 49-73. | 0.8 | 17 |
| 18 | File Updates Under Random/Arbitrary Insertions and Deletions. IEEE Transactions on Information Theory, 2017, 63, 6487-6513. | 2.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Coded convolution for parallel and distributed computing within a deadline. , 2017, , . | | 89 |
| 20 | On the optimal recovery threshold of coded matrix multiplication. , 2017, , . | | 53 |
| 21 | Consistent distributed storage of correlated data updates via multi-version coding. , 2016, , . | | 4 |
| 22 | Expanding the Compute-and-Forward Framework: Unequal Powers, Signal Levels, and Multiple Linear Combinations. IEEE Transactions on Information Theory, 2016, 62, 4879-4909. | 2.4 | 43 |
| 23 | Alignment-Based Network Coding for Two-Unicast-Z Networks. IEEE Transactions on Information Theory, 2016, 62, 3183-3211. | 2.4 | 4 |
| 24 | Alphabet-size dependent bounds for exact repair in distributed storage. , 2015, , . | | 3 |
| 25 | Probabilistic characterisation of baseline noise in STR profiles. Forensic Science International: Genetics, 2015, 19, 107-122. | 3.1 | 22 |
| 26 | File updates under random/arbitrary insertions and deletions. , 2015, , . | | 10 |
| 27 | On multi-version coding for distributed storage. , 2014, , . | | 4 |
| 28 | A signal model for forensic DNA mixtures. , 2014, , . | | 3 |