

Rahul Vaze

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,428
citations

623734

14
h-index

454955

30
g-index

70
all docs

70
docs citations

70
times ranked

1323
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Analysis of Blockage Effects on Urban Cellular Networks. IEEE Transactions on Wireless Communications, 2014, 13, 5070-5083. | 9.2 | 506 |
| 2 | On the Capacity and Diversity-Multiplexing Tradeoff of the Two-Way Relay Channel. IEEE Transactions on Information Theory, 2011, 57, 4219-4234. | 2.4 | 160 |
| 3 | Transmission Capacity of Ad-hoc Networks With Multiple Antennas Using Transmit Stream Adaptation and Interference Cancellation. IEEE Transactions on Information Theory, 2012, 58, 780-792. | 2.4 | 96 |
| 4 | Using random shape theory to model blockage in random cellular networks. , 2012, , . | | 72 |
| 5 | Throughput-Delay-Reliability Tradeoff with ARQ in Wireless Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2011, 10, 2142-2149. | 9.2 | 47 |
| 6 | Two-Way Transmission Capacity of Wireless Ad-hoc Networks. IEEE Transactions on Wireless Communications, 2011, 10, 1966-1975. | 9.2 | 37 |
| 7 | Competitive ratio analysis of online algorithms to minimize packet transmission time in energy harvesting communication system. , 2013, , . | | 33 |
| 8 | Optimally Approximating the Coverage Lifetime of Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2017, 25, 98-111. | 3.8 | 30 |
| 9 | Dynamic Power Allocation for Maximizing Throughput in Energy-Harvesting Communication System. IEEE/ACM Transactions on Networking, 2014, 22, 1621-1630. | 3.8 | 29 |
| 10 | Transmission Capacity of Spectrum Sharing Ad Hoc Networks with Multiple Antennas. IEEE Transactions on Wireless Communications, 2011, 10, 2334-2340. | 9.2 | 26 |
| 11 | Throughput Maximization With an Average Age of Information Constraint in Fading Channels. IEEE Transactions on Wireless Communications, 2021, 20, 481-494. | 9.2 | 26 |
| 12 | Transmission capacity of ad-hoc networks with multiple antennas using transmit stream adaptation and interference cancelation. , 2009, , . | | 25 |
| 13 | Sub-Modularity and Antenna Selection in MIMO Systems. IEEE Communications Letters, 2012, 16, 1446-1449. | 4.1 | 25 |
| 14 | Not Just Age but Age and Quality of Information. IEEE Journal on Selected Areas in Communications, 2021, 39, 1325-1338. | 14.0 | 21 |
| 15 | Critical database size for effective caching. , 2015, , . | | 19 |
| 16 | Online Energy-Efficient Packet Scheduling for a Common Deadline With and Without Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2016, 34, 3661-3674. | 14.0 | 17 |
| 17 | Minimization of Age of Information in Fading Multiple Access Channels. IEEE Journal on Selected Areas in Communications, 2021, 39, 1471-1484. | 14.0 | 17 |
| 18 | To Code in Space and Time or Not in Multihop Relay Channels. IEEE Transactions on Signal Processing, 2009, 57, 2736-2747. | 5.3 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Percolation and connectivity on the signal to interference ratio graph. , 2012, , . | | 16 |
| 20 | Transmission capacity of wireless ad hoc networks with energy harvesting nodes. , 2013, , . | | 11 |
| 21 | Optimal Offline and Competitive Online Strategies for Transmitter-Receiver Energy Harvesting. IEEE Transactions on Information Theory, 2016, 62, 4674-4695. | 2.4 | 11 |
| 22 | Minimizing the Sum of Age of Information and Transmission Cost under Stochastic Arrival Model. , 2021, , . | | 11 |
| 23 | Game of Ages in a Distributed Network. IEEE Journal on Selected Areas in Communications, 2021, 39, 1240-1249. | 14.0 | 10 |
| 24 | Combinatorial Resource Allocation Using Submodularity of Waterfilling. IEEE Transactions on Wireless Communications, 2016, 15, 206-216. | 9.2 | 9 |
| 25 | Game of Ages. , 2020, , . | | 9 |
| 26 | Long term throughput and approximate capacity of transmitter-receiver energy harvesting channel with fading. , 2014, , . | | 8 |
| 27 | Multiple Transmitter Localization and Whitespace Identification Using Randomly Deployed Binary Sensors. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 358-369. | 7.9 | 7 |
| 28 | Capacity of cellular wireless network. , 2017, , . | | 7 |
| 29 | Finite-horizon optimal transmission policies for energy harvesting sensors. , 2014, , . | | 6 |
| 30 | Opportunistic scheduling in two-way wireless communication with energy harvesting. , 2017, , . | | 6 |
| 31 | Multiple Server SRPT With Speed Scaling Is Competitive. IEEE/ACM Transactions on Networking, 2020, 28, 1739-1751. | 3.8 | 6 |
| 32 | Energy Harvesting Communications With Batteries Having Cycle Constraints. IEEE Transactions on Green Communications and Networking, 2020, 4, 263-276. | 5.5 | 6 |
| 33 | Flag Manifold-Based Precoder Interpolation Techniques for MIMO-OFDM Systems. IEEE Transactions on Communications, 2021, 69, 4347-4359. | 7.8 | 6 |
| 34 | Online Budgeted Truthful Matching. Performance Evaluation Review, 2017, 44, 3-6. | 0.6 | 6 |
| 35 | Online Algorithms for Basestation Allocation. IEEE Transactions on Wireless Communications, 2014, 13, 2966-2975. | 9.2 | 5 |
| 36 | Age of Information Minimization in Fading Multiple Access Channels. , 2020, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Deadline Constrained Packet Scheduling in the Presence of an Energy Harvesting Jammer. IEEE Transactions on Green Communications and Networking, 2021, 5, 278-290. | 5.5 | 5 |
| 38 | Online Energy Minimization Under A Peak Age of Information Constraint. , 2021, , . | | 5 |
| 39 | Two-way transmission capacity of wireless ad-hoc networks. , 2010, , . | | 4 |
| 40 | Transmission capacity of spectrum sharing ad-hoc networks with multiple antennas. , 2011, , . | | 4 |
| 41 | Bounds on minimum number of anchors for iterative localization and its connections to bootstrap percolation. , 2012, , . | | 4 |
| 42 | The online disjoint set cover problem and its applications. , 2015, , . | | 4 |
| 43 | Online knapsack problem and budgeted truthful bipartite matching. , 2017, , . | | 4 |
| 44 | Asymptotically Optimal Uncoordinated Power Control Policies for Energy Harvesting Multiple Access Channels With Decoding Costs. IEEE Transactions on Communications, 2019, 67, 2420-2435. | 7.8 | 4 |
| 45 | Percolation on the information theoretic secure SINR graph: Upper and lower bounds. , 2014, , . | | 3 |
| 46 | Achieving nonzero information velocity in wireless networks. Annals of Applied Probability, 2017, 27, . | 1.3 | 3 |
| 47 | Predictive Quantization and Joint Time-Frequency Interpolation Technique for MIMO-OFDM Precoding. , 2019, , . | | 3 |
| 48 | Distributed Algorithms for Efficient Learning and Coordination in Ad Hoc Networks. , 2019, , . | | 3 |
| 49 | Achieving non-zero information velocity in wireless networks. , 2015, , . | | 2 |
| 50 | Autoregressive cascades on random networks. Physica A: Statistical Mechanics and Its Applications, 2016, 447, 345-354. | 2.6 | 2 |
| 51 | When to arrive in a congested system: Achieving equilibrium via learning algorithm. , 2017, , . | | 2 |
| 52 | Capacity of Cellular Wireless Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1490-1503. | 9.2 | 2 |
| 53 | Throughput Maximization with an Average Age of Information Constraint in Fading Channels. , 2020, , . | | 2 |
| 54 | Network speed scaling. Performance Evaluation, 2020, 144, 102145. | 1.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Mutual Information Based Output Dimensionality Reduction. , 2014, , . | | 1 |
| 56 | On white-space detection, localization and coverage. , 2014, , . | | 1 |
| 57 | Social optimum in social groups with give&€and&€take criterion. International Journal of Communication Systems, 2016, 29, 1219-1234. | 2.5 | 1 |
| 58 | Online energy efficient packet scheduling with a common deadline. , 2016, , . | | 1 |
| 59 | On distributed power control for uncoordinated dual energy harvesting links: Performance bounds and near-optimal policies. , 2017, , . | | 1 |
| 60 | On Optimal Scheduling and Power Control for Uncoordinated Multiple Access by Energy Harvesting Nodes. , 2018, , . | | 1 |
| 61 | Energy-Delay-Distortion Problem. , 2018, , . | | 1 |
| 62 | Energy Harvesting Communications with Batteries Having Full-Cycle Constraints. , 2019, , . | | 1 |
| 63 | Speed Scaling with Multiple Servers under a Sum-Power Constraint. Performance Evaluation Review, 2022, 49, 45-50. | 0.6 | 1 |
| 64 | Communicating under channel phase uncertainty. , 2013, , . | | 0 |
| 65 | Percolation on the Information-Theoretically Secure Signal to Interference Ratio Graph. Journal of Applied Probability, 2014, 51, 910-920. | 0.7 | 0 |
| 66 | Paging with multiple caches. , 2016, , . | | 0 |
| 67 | Online Energy Harvesting Problem Over an Arbitrary Directed Acyclic Graph Network. IEEE Transactions on Green Communications and Networking, 2019, 3, 1106-1116. | 5.5 | 0 |
| 68 | Network Speed Scaling. Performance Evaluation Review, 2021, 48, 61-62. | 0.6 | 0 |
| 69 | Speed Scaling on Parallel Servers With MapReduce Type Precedence Constraints. IEEE/ACM Transactions on Networking, 2022, 30, 1509-1524. | 3.8 | 0 |