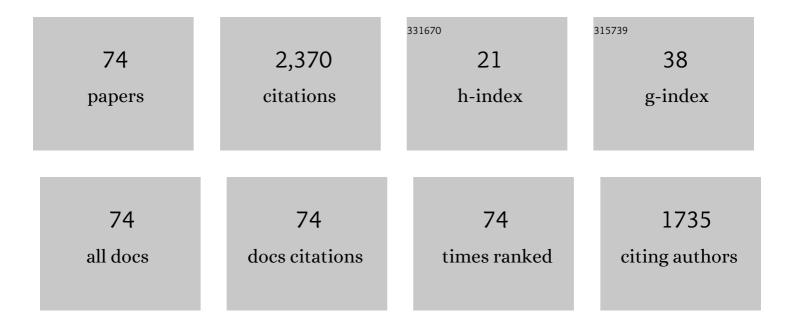
Michael J Neely

List of Publications by Year in descending order

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MICHAEL I NEELY

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Fairness and Optimal Stochastic Control for Heterogeneous Networks. IEEE/ACM Transactions on Networking, 2008, 16, 396-409. | 3.8 | 311 |
| 2 | Efficient Algorithms for Renewable Energy Allocation to Delay Tolerant Consumers. , 2010, , . | | 167 |
| 3 | Opportunistic Scheduling with Reliability Guarantees in Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2009, 8, 766-777. | 5.8 | 161 |
| 4 | Optimal Energy and Delay Tradeoffs for Multiuser Wireless Downlinks. IEEE Transactions on Information Theory, 2007, 53, 3095-3113. | 2.4 | 129 |
| 5 | Energy-Efficient Transmissions With Individual Packet Delay Constraints. IEEE Transactions on Information Theory, 2008, 54, 2090-2109. | 2.4 | 129 |
| 6 | Opportunistic Cooperation in Cognitive Femtocell Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 607-616. | 14.0 | 111 |
| 7 | Opportunistic scheduling with worst case delay guarantees in single and multi-hop networks. , 2011, , . | | 100 |
| 8 | Delay reduction via Lagrange multipliers in stochastic network optimization. IEEE Transactions on Automatic Control, 2011, 56, 842-857. | 5.7 | 94 |
| 9 | Order Optimal Delay for Opportunistic Scheduling in Multi-User Wireless Uplinks and Downlinks. IEEE/ACM Transactions on Networking, 2008, 16, 1188-1199. | 3.8 | 72 |
| 10 | MIMO Downlink Scheduling with Non-Perfect Channel State Knowledge. IEEE Transactions on Communications, 2010, 58, 2055-2066. | 7.8 | 69 |
| 11 | Dynamic Optimization and Learning for Renewal Systems. IEEE Transactions on Automatic Control, 2013, 58, 32-46. | 5.7 | 68 |
| 12 | Bipartite index coding. , 2012, , . | | 61 |
| 13 | Universal scheduling for networks with arbitrary traffic, channels, and mobility. , 2010, , . | | 57 |
| 14 | Intelligent Packet Dropping for Optimal Energy-Delay Tradeoffs in Wireless Downlinks. IEEE Transactions on Automatic Control, 2009, 54, 565-579. | 5.7 | 48 |
| 15 | Dynamic Index Coding for Wireless Broadcast Networks. IEEE Transactions on Information Theory, 2013, 59, 7525-7540. | 2.4 | 45 |
| 16 | Delay Analysis for Maximal Scheduling With Flow Control in Wireless Networks With Bursty Traffic. IEEE/ACM Transactions on Networking, 2009, 17, 1146-1159. | 3.8 | 43 |
| 17 | The Optimality of Two Prices: Maximizing Revenue in a Stochastic Communication System. IEEE/ACM Transactions on Networking, 2010, 18, 406-419. | 3.8 | 40 |
| 18 | Delay Analysis for Max Weight Opportunistic Scheduling in Wireless Systems. IEEE Transactions on Automatic Control, 2009, 54, 2137-2150. | 5.7 | 39 |

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|----|---|------|-----------|
| 19 | Energy-efficient scheduling with individual packet delay constraints over a fading channel. Wireless Networks, 2009, 15, 601-618. | 3.0 | 31 |
| 20 | Energy-Optimal Scheduling with Dynamic Channel Acquisition in Wireless Downlinks. IEEE Transactions on Mobile Computing, 2010, 9, 527-539. | 5.8 | 30 |
| 21 | Optimal Routing with Mutual Information Accumulation in Wireless Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 1730-1737. | 14.0 | 28 |
| 22 | SigSag: Iterative Detection Through Soft Message-Passing. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1512-1523. | 10.8 | 26 |
| 23 | Energy-Efficient Scheduling with Individual Delay Constraints over a Fading Channel. , 2007, , . | | 25 |
| 24 | Dynamic index coding for wireless broadcast networks. , 2012, , . | | 25 |
| 25 | Dynamic Markov Decision Policies for Delay Constrained Wireless Scheduling. IEEE Transactions on Automatic Control, 2013, 58, 1948-1961. | 5.7 | 25 |
| 26 | Backpressure Delay Enhancement for Encounter-Based Mobile Networks While Sustaining Throughput Optimality. IEEE/ACM Transactions on Networking, 2016, 24, 1196-1208. | 3.8 | 23 |
| 27 | Max Weight Learning Algorithms for Scheduling in Unknown Environments. IEEE Transactions on Automatic Control, 2012, 57, 1179-1191. | 5.7 | 22 |
| 28 | Utility optimization for dynamic peer-to-peer networks with tit-for-tat constraints. , 2011, , . | | 21 |
| 29 | Stock market trading via stochastic network optimization. , 2010, , . | | 20 |
| 30 | Delay-Limited Cooperative Communication With Reliability Constraints in Wireless Networks. IEEE Transactions on Information Theory, 2014, 60, 1869-1882. | 2.4 | 18 |
| 31 | A New Backpressure Algorithm for Joint Rate Control and Routing With Vanishing Utility Optimality Gaps and Finite Queue Lengths. IEEE/ACM Transactions on Networking, 2018, 26, 1605-1618. | 3.8 | 18 |
| 32 | Stochastic optimization for Markov modulated networks with application to delay constrained wireless scheduling. , 2009, , . | | 17 |
| 33 | Delay and rate-optimal control in a multi-class priority queue with adjustable service rates. , 2012, , . | | 17 |
| 34 | Delay analysis for max weight opportunistic scheduling in wireless systems. , 2008, , . | | 16 |
| 35 | Dynamic optimization and learning for renewal systems. , 2010, , . | | 16 |
| 36 | Optimizing Information Credibility in Social Swarming Applications. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1147-1158. | 5.6 | 16 |

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| 37 | Optimal Peer-to-Peer Schedulingfor Mobile Wireless Networkswith Redundantly Distributed Data. IEEE Transactions on Mobile Computing, 2014, 13, 2086-2099. | 5.8 | 13 |
| 38 | Learning-Aided Optimization for Energy-Harvesting Devices With Outdated State Information. IEEE/ACM Transactions on Networking, 2019, 27, 1501-1514. | 3.8 | 13 |
| 39 | Network utility maximization over partially observable Markovian channels. , 2011, , . | | 12 |
| 40 | Quality of Information Maximization for Wireless Networks via a Fully Separable Quadratic Policy. IEEE/ACM Transactions on Networking, 2015, 23, 574-586. | 3.8 | 11 |
| 41 | Energy-Aware Wireless Scheduling With Near-Optimal Backlog and Convergence Time Tradeoffs. IEEE/ACM Transactions on Networking, 2016, 24, 2223-2236. | 3.8 | 11 |
| 42 | Dynamic Transmit Covariance Design in MIMO Fading Systems With Unknown Channel Distributions and Inaccurate Channel State Information. IEEE Transactions on Wireless Communications, 2017, 16, 3996-4008. | 9.2 | 11 |
| 43 | Iterative Message Passing Algorithm for Bipartite Maximum Weighted Matching. , 2006, , . | | 10 |
| 44 | Quality of Information aware scheduling in task processing networks. , 2011, , . | | 10 |
| 45 | Optimal routing with mutual information accumulation in wireless networks. , 2011, , . | | 10 |
| 46 | On the Convergence Time of Dual Subgradient Methods for Strongly Convex Programs. IEEE Transactions on Automatic Control, 2018, 63, 1105-1112. | 5.7 | 10 |
| 47 | On the convergence time of the drift-plus-penalty algorithm for strongly convex programs. , 2015, , . | | 9 |
| 48 | A primal-dual type algorithm with the O(1/t) convergence rate for large scale constrained convex programs. , 2016, , . | | 9 |
| 49 | Duality Codes and the Integrality Gap Bound for Index Coding. IEEE Transactions on Information Theory, 2014, 60, 7256-7268. | 2.4 | 8 |
| 50 | A new backpressure algorithm for joint rate control and routing with vanishing utility optimality gaps and finite queue lengths. , 2017, , . | | 8 |
| 51 | Multicasting in Time-varying Wireless Networks: Cross-layer Dynamic Resource Allocation. , 2007, , . | | 7 |
| 52 | Solving convex optimization with side constraints in a multi-class queue by adaptive \$\$cmu \$\$ c μ rule. Queueing Systems, 2014, 77, 331-372. | 0.9 | 7 |
| 53 | Achieving utility-delay-reliability tradeoff in stochastic network optimization with finite buffers. , 2015, , . | | 7 |
| 54 | Data Center Server Provision: Distributed Asynchronous Control for Coupled Renewal Systems. IEEE/ACM Transactions on Networking, 2017, 25, 2180-2194. | 3.8 | 7 |

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| 55 | Mathematical analysis of throughput bounds in random access with ZIGZAG decoding. , 2009, , . | | 6 |
| 56 | Power-Aware Wireless File Downloading: A Lyapunov Indexing Approach to a Constrained Restless Bandit Problem. IEEE/ACM Transactions on Networking, 2016, 24, 2264-2277. | 3.8 | 6 |
| 57 | Delay-Constrained Energy-Efficient Scheduling over a Multihop Link. , 2007, , . | | 5 |
| 58 | Convergence and Adaptation for Utility Optimal Opportunistic Scheduling. IEEE/ACM Transactions on Networking, 2019, 27, 904-917. | 3.8 | 5 |
| 59 | Energy-optimal scheduling with dynamic channel acquisition in wireless downlinks. , 2007, , . | | 4 |
| 60 | Stochastic network optimization with non-convex utilities and costs. , 2010, , . | | 4 |
| 61 | SigSag: Iterative detection through soft message-passing. , 2011, , . | | 4 |
| 62 | Delay reduction via Lagrange Multipliers in stochastic network optimization. , 2009, , . | | 3 |
| 63 | Mathematical Analysis of Throughput Bounds in Random Access with ZigZag Decoding. Mobile Networks and Applications, 2011, 16, 255-266. | 3.3 | 3 |
| 64 | Quality of information maximization in two-hop wireless networks. , 2012, , . | | 3 |
| 65 | Time-average optimization with nonconvex decision set and its convergence. , 2014, , . | | 3 |
| 66 | Dynamic power allocation in MIMO fading systems without channel distribution information. , 2016, , . | | 3 |
| 67 | Time-average stochastic optimization with non-convex decision set and its convergence. , 2015, , . | | 2 |
| 68 | Time-Average Optimization With Nonconvex Decision Set and Its Convergence. IEEE Transactions on Automatic Control, 2017, 62, 4202-4208. | 5.7 | 2 |
| 69 | Opportunistic cooperation in cognitive radio networks. , 2012, , . | | 1 |
| 70 | Power aware wireless file downloading: A constrained restless bandit approach. , 2014, , . | | 1 |
| 71 | Delay optimal power aware opportunistic scheduling with mutual information accumulation. , 2016, , . | | 1 |
| 72 | Asynchronous Optimization over Weakly Coupled Renewal Systems. Stochastic Systems, 2018, 8, 167-191. | 1.1 | 1 |

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|----|---|-----|-----------|
| 73 | A Converse Result on Convergence Time for Opportunistic Wireless Scheduling. , 2020, , . | | 1 |
| 74 | A Converse Result on Convergence Time for Opportunistic Wireless Scheduling. IEEE/ACM Transactions on Networking, 2022, 30, 1540-1553. | 3.8 | 1 |