

Siva Ram Murthy Chebiyyam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87 papers	886 citations	14 h-index	26 g-index
101 ext. papers	1,115 ext. citations	3.9 avg, IF	4.65 L-index

#	Paper	IF	Citations
87	A Novel Matching Theory-Based Data Offloading Framework for a Fog Network With Selfish and Rational Nodes. <i>IEEE Networking Letters</i> , 2021 , 1-1	2.8	1
86	Distributed Slice Mobility Attack: A Novel Targeted Attack Against Network Slices of 5G Networks. <i>IEEE Networking Letters</i> , 2021 , 3, 5-9	2.8	3
85	Reliable Placement of Service Function Chains and Virtual Monitoring Functions With Minimal Cost in Softwarized 5G Networks. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 18, 1491-1507	4.8	4
84	DSM Attack Resistant Slice Selection in 5G. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1469-1473	5.9	1
83	A Routing Framework With Protocol Conversions Across Multiradio IoT Platforms. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 4417-4432	10.7	2
82	Resilient and Latency-Aware Orchestration of Network Slices Using Multi-Connectivity in MEC-Enabled 5G Networks. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 18, 2502-2514	4.8	8
81	Learn to Breathe: An Energy Efficient Inter-Operator Proximal Spectrum Sharing. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 631-646	4	1
80	Efficient Spectrum Slicing in 5G Networks: An Overlapping Coalition Formation Approach. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 19, 1299-1316	4.6	6
79	Discrete Breathing: An Energy Efficient Resource Scheduling for Future Wireless Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2019 , 3, 275-287	4	3
78	The More the Merrier: Enhancing Reliability of 5G Communication Services With Guaranteed Delay. <i>IEEE Networking Letters</i> , 2019 , 1, 52-55	2.8	14
77	Resource Spreading for Improved Spectral and Energy Efficiency of mmWave D2D-Enabled Cellular Networks 2019 ,		1
76	Packet Generation Schemes and Network Latency Implications in SDN-enabled 5G C-RANs: Queuing Model Based Analysis 2019 ,		1
75	A Pragmatic Relay Placement Approach in 3-D Space and Q-Learning-Based Transmission Scheme for Reliable Factory Automation Applications. <i>IEEE Systems Journal</i> , 2018 , 12, 823-833	4.3	8
74	Techniques for Interference Mitigation Using Cooperative Resource Partitioning in Multitier LTE HetNets. <i>IEEE Systems Journal</i> , 2018 , 12, 843-853	4.3	4
73	A Novel Distributed Q-Learning Based Resource Reservation Framework for Facilitating D2D Content Access Requests in LTE-A Networks. <i>IEEE Transactions on Network and Service Management</i> , 2018 , 15, 718-731	4.8	12
72	Increasing Energy Efficiency via Transmit Power Spreading in Dense Femto Cell Networks. <i>IEEE Systems Journal</i> , 2018 , 12, 971-980	4.3	8
71	A case for preamble compression in multi-clock-rate sampling devices for energy efficient idle listening. <i>Wireless Networks</i> , 2018 , 24, 1593-1608	2.5	1

70	Efficient coverage management of pico cells in HetNets via spectrum slicing, cell biasing, and transmit power spreading. <i>Wireless Networks</i> , 2018 , 24, 3099-3112	2.5	2
69	An Energy Efficient Cell Selection Framework for Femtocell Networks With Limited Backhaul Link Capacity. <i>IEEE Systems Journal</i> , 2018 , 12, 1969-1980	4.3	10
68	Performance Evaluation of Joint Placement and Sleep Scheduling of Grid-Connected Solar Powered Road Side Units in Vehicular Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2018 , 2, 1197-1209	4	11
67	Improving Delay and Energy Efficiency of Vehicular Networks Using Mobile Femto Access Points. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 1496-1505	6.8	43
66	Convex Hull Inspired Distributed Controller Placement for Assisting D2D Transfers in LTE-A Networks 2017 ,		1
65	Design and stochastic geometric analysis of an efficient Q-Learning based physical resource block allocation scheme to maximize the spectral efficiency of Device-to-Device overlaid cellular networks. <i>Computer Networks</i> , 2017 , 119, 71-85	5.4	7
64	Coverage and Rate Analysis for Facilitating Machine-to-Machine Communication in LTE-A Networks Using Device-to-Device Communication. <i>IEEE Transactions on Mobile Computing</i> , 2017 , 16, 3014-3027	4.6	20
63	A Probabilistic Framework for Protocol Conversions in IIoT Networks With Heterogeneous Gateways. <i>IEEE Communications Letters</i> , 2017 , 21, 2456-2459	3.8	6
62	A novel fairness-driven approach for heterogeneous gatewaysXlink scheduling in IoT networks 2017 ,		4
61	Exploiting Small World Networks for Energy Efficiency in Network of Multi-Clock-Rate Wireless Devices. <i>INAE Letters</i> , 2017 , 2, 49-54	0.7	
60	An efficient TDMA-based variable interval multichannel MAC protocol for vehicular networks. <i>Wireless Networks</i> , 2016 , 22, 1365-1380	2.5	6
59	Parallel opportunistic routing in IoT networks 2016 ,		11
58	Breathe to Save Energy: Assigning Downlink Transmit Power and Resource Blocks to LTE Enabled IoT Networks. <i>IEEE Communications Letters</i> , 2016 , 20, 1607-1610	3.8	24
57	On minimizing the system information age in vehicular ad-hoc networks via efficient scheduling and piggybacking. <i>Wireless Networks</i> , 2016 , 22, 1625-1639	2.5	3
56	A Q-Learning Framework for User QoE Enhanced Self-Organizing Spectrally Efficient Network Using a Novel Inter-Operator Proximal Spectrum Sharing. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 2887-2901	14.2	23
55	An energy efficient cell selection scheme for femtocell network with spreading 2015 ,		8
54	Joint placement and sleep scheduling of grid-connected solar powered road side units in vehicular networks 2014 ,		14
53	Exploiting an Optimal User Association Strategy for Interference Management in HetNets. <i>IEEE Communications Letters</i> , 2014 , 18, 1799-1802	3.8	12

52	Performance Modeling of Delay-Tolerant Network Routing via Queueing Petri Nets. <i>IEEE Transactions on Mobile Computing</i> , 2014 , 13, 1816-1828	4.6	10
51	An efficient preamble compression for multi clock-rate sampling wireless devices 2013 ,		1
50	Enhancing the performance of HetNets via linear regression estimation of Range Expansion Bias 2013 ,		8
49	Performance modeling of message-driven based energy-efficient routing in delay-tolerant networks with individual node selfishness 2013 ,		2
48	Buffer Dimensioning of DTN Replication-Based Routing Nodes. <i>IEEE Communications Letters</i> , 2013 , 17, 123-126	3.8	7
47	Performance modeling of Delay Tolerant Network routing via Queueing Petri Nets 2012 ,		4
46	Performance modeling of routing in delay-tolerant networks with node heterogeneity 2012 ,		7
45	Cross-Layer User Pairing for CSM in IEEE 802.16 Networks. <i>IEEE Communications Letters</i> , 2011 , 15, 515-518	3.7	2
44	A stochastic model for the behavior of multiple TCP NewReno sources over optical burst switching network. <i>Photonic Network Communications</i> , 2011 , 22, 109-122	1.7	2
43	An Adaptive Channel Reconfiguration Algorithm for Multi-Channel Multi-Radio Wireless Mesh Networks. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 3064-3071	9.6	14
42	Modeling the Impact of Control Plane Losses on the Performance of Optical Burst Switched Core Node. <i>IEEE Communications Letters</i> , 2010 , 14, 1071-1073	3.8	0
41	A reliable data transport protocol for partitioned actors in Wireless Sensor and Actor Networks 2010 ,		6
40	The influence of QoS routing on the achievable capacity in TDMA based Ad hoc wireless networks. <i>Wireless Networks</i> , 2010 , 16, 291-310	2.5	2
39	A novel learning based solution for efficient data transport in heterogeneous wireless networks. <i>Wireless Networks</i> , 2010 , 16, 1777-1798	2.5	2
38	Integrating traffic estimation and dynamic channel reconfiguration in Wireless Mesh Networks 2009 ,		2
37	Analysis of Burst Segmentation in Optical Burst Switching Networks Considering Path Correlation. <i>Journal of Lightwave Technology</i> , 2009 , 27, 5563-5570	4	4
36	Energy Efficient and Scalable Search in Dense Wireless Sensor Networks. <i>IEEE Transactions on Computers</i> , 2009 , 58, 812-826	2.5	19
35	Modelling co-operative MAC layer misbehaviour in IEEE 802.11 ad hoc networks with heterogeneous loads 2008 ,		1

34	Adaptive FEC-Based Packet Loss Resilience Scheme for Supporting Voice Communication over Ad hoc Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , 2008 , 7, 1184-1199	4.6	27
33	A Complete Framework to Support Controlled Burst Retransmission in Optical Burst Switching Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 65-73	14.2	12
32	Loss classification in optical burst switching networks using machine learning techniques: improving the performance of TCP. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 45-54	14.2	26
31	Network lifetime driven MAC protocols for ad hoc wireless networks. <i>Wireless Networks</i> , 2008 , 14, 929-945	14.2	2
30	A Markov Chain Model for TCP NewReno Over Optical Burst Switching Networks 2007 ,		2
29	A Reinforcement Learning Framework for Path Selection and Wavelength Selection in Optical Burst Switched Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 18-26	14.2	42
28	Node Placement Algorithm for Deployment of Two-Tier Wireless Mesh Networks 2007 ,		131
27	A link layer adaptive pacing scheme for improving performance of Wireless Mesh Networks 2007 ,		1
26	A first step toward autonomic optical burst switched networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2006 , 24, 94-105	14.2	14
25	Design and Performance Evaluation of Meghadoot - A Hybrid Wireless Network Architecture 2006 ,		2
24	Modeling TCP over Ad hoc Wireless Networks using Multi-dimensional Markov Chains 2006 ,		3
23	Robust Demand-Driven Video Multicast over Ad hoc Wireless Networks 2006 ,		5
22	Reinforcement Learning Based Path Selection and Wavelength Selection in Optical Burst Switched Networks 2006 ,		3
21	Energy Efficient Assignment of Events in Wireless Sensor and Mobile Actor Networks 2006 ,		9
20	Dynamic Virtual Topology Reconfiguration Algorithms for Groomed WDM Networks. <i>Photonic Network Communications</i> , 2005 , 9, 181-195	1.7	0
19	Dynamic Establishment of Segmented Protection Paths in Single and Multi-Fiber WDM Mesh Networks. <i>Photonic Network Communications</i> , 2005 , 9, 77-98	1.7	1
18	Preferred Link Based Distributed Adaptive Routing in Wavelength Routed Optical Network. <i>Photonic Network Communications</i> , 2004 , 7, 17-35	1.7	2
17	Design and Dimensioning of a WDM Mesh Network to Groom Dynamically Varying Traffic. <i>Photonic Network Communications</i> , 2004 , 7, 179-191	1.7	10

16	QoS Based Survivable Logical Topology Design in WDM Optical Networks. <i>Photonic Network Communications</i> , 2004 , 7, 193-206	1.7	3
15	A Framework for Differentiated Survivable Optical Virtual Private Networks. <i>Photonic Network Communications</i> , 2002 , 4, 457-487	1.7	1
14	A preferred link based routing protocol for wireless ad hoc networks. <i>Journal of Communications and Networks</i> , 2002 , 4, 14-21	4.1	19
13	Virtual Source Based Multicast Routing in WDM Optical Networks. <i>Photonic Network Communications</i> , 2001 , 3, 213-226	1.7	30
12	Application Semantics and Seamlessness Based Admission Control Policy for Multimedia Mobile Networks. <i>Multimedia Tools and Applications</i> , 1999 , 9, 7-28	2.5	1
11	A New Approach for Scheduling of Parallelizable Tasks in Real-Time Multiprocessor Systems. <i>Real-Time Systems</i> , 1998 , 15, 39-60	1.3	44
10	A constant time string shuffle algorithm on reconfigurable meshes. <i>International Journal of Computer Mathematics</i> , 1998 , 68, 251-259	1.2	2
9	A fault tolerant systolic mesh for linear system solution. <i>International Journal of Computer Mathematics</i> , 1998 , 67, 315-332	1.2	
8	Task allocation algorithms for maximizing reliability of distributed computing systems. <i>IEEE Transactions on Computers</i> , 1997 , 46, 719-724	2.5	86
7	A NEW MODIFIED GRAM-SCHMIDT ORTHOGONAL MATRIX FACTORIZATION BASED ALGORITHM FOR PARALLEL SOLUTION OF LINEAR EQUATIONS. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 1995 , 6, 39-52		
6	Modeling and simulation of dynamic job scheduling in multiprocessor systems. <i>International Journal of Computer Mathematics</i> , 1995 , 58, 221-247	1.2	
5	TWO-SIDED ELIMINATION ALGORITHM FOR PARALLEL SOLUTION OF LINEAR EQUATIONS USING HOUSEHOLDER REDUCTIONS. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 1994 , 3, 287-309		
4	A faster algorithm for sorting on mesh-connected computers with multiple broadcasting using fewer processors. <i>International Journal of Computer Mathematics</i> , 1993 , 48, 15-20	1.2	1
3	Learning-TCP: a novel learning automata based reliable transport protocol for ad hoc wireless networks		1
2	Real-time traffic support for ad hoc wireless networks		14
1	Virtual source based multicast routing in WDM networks with sparse light splitting		13