

# Prasant Mohapatra

## List of Publications by Citations

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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.

166  
papers

3,846  
citations

26  
h-index

56  
g-index

187  
ext. papers

4,796  
ext. citations

4.8  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
166	. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 2047-2077	37.1	742
165	Analytical modeling and mitigation techniques for the energy hole problem in sensor networks. <i>Pervasive and Mobile Computing</i> , <b>2007</b> , 3, 233-254	3.5	280
164	Trust Computations and Trust Dynamics in Mobile Adhoc Networks: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2012</b> , 14, 279-298	37.1	215
163	Non-cryptographic authentication and identification in wireless networks [Security and Privacy in Emerging Wireless Networks]. <i>IEEE Wireless Communications</i> , <b>2010</b> , 17, 56-62	13.4	156
162	WiWho: WiFi-Based Person Identification in Smart Spaces <b>2016</b> ,		142
161	Exploiting Multiple-Antenna Diversity for Shared Secret Key Generation in Wireless Networks <b>2010</b> ,		115
160	Using humans as sensors: An estimation-theoretic perspective <b>2014</b> ,		105
159	Predicting user traits from a snapshot of apps installed on a smartphone. <i>Mobile Computing and Communications Review</i> , <b>2014</b> , 18, 1-8		84
158	Enabling reputation and trust in privacy-preserving mobile sensing. <i>IEEE Transactions on Mobile Computing</i> , <b>2014</b> , 13, 2777-2790	4.6	73
157	Dynamic defense strategy against advanced persistent threat with insiders <b>2015</b> ,		68
156	Improving energy efficiency of Wi-Fi sensing on smartphones <b>2011</b> ,		54
155	Probability Density of the Received Power in Mobile Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2011</b> , 10, 3613-3619	9.6	53
154	PBA: Prediction-Based Authentication for Vehicle-to-Vehicle Communications. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2016</b> , 13, 71-83	3.9	50
153	Simultaneously Reducing Latency and Power Consumption in OpenFlow Switches. <i>IEEE/ACM Transactions on Networking</i> , <b>2014</b> , 22, 1007-1020	3.8	47
152	Your Installed Apps Reveal Your Gender and More!. <i>Mobile Computing and Communications Review</i> , <b>2015</b> , 18, 55-61		39
151	Trusted Collaborative Spectrum Sensing for Mobile Cognitive Radio Networks. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2013</b> , 8, 1497-1507	8	38
150	Performance Improvement of Allocation Schemes for Mesh-Connected Computers. <i>Journal of Parallel and Distributed Computing</i> , <b>1998</b> , 52, 40-68	4.4	38

149	Characterizing privacy leakage of public WiFi networks for users on travel <b>2013</b> ,		37
148	MagPairing: Pairing Smartphones in Close Proximity Using Magnetometers. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2016</b> , 11, 1306-1320	8	35
147	Real-time scheduling method for networked discrete control systems. <i>Control Engineering Practice</i> , <b>2009</b> , 17, 564-570	3.9	35
146	On the deployment of wireless data back-haul networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2007</b> , 6, 1426-1435	9.6	34
145	Adaptive Wireless Channel Probing for Shared Key Generation Based on PID Controller. <i>IEEE Transactions on Mobile Computing</i> , <b>2013</b> , 12, 1842-1852	4.6	32
144	STAMP: Enabling Privacy-Preserving Location Proofs for Mobile Users. <i>IEEE/ACM Transactions on Networking</i> , <b>2016</b> , 24, 3276-3289	3.8	31
143	Adaptive wireless channel probing for shared key generation <b>2011</b> ,		30
142	Soft-TDMAC: A Software-Based 802.11 Overlay TDMA MAC with Microsecond Synchronization. <i>IEEE Transactions on Mobile Computing</i> , <b>2012</b> , 11, 478-491	4.6	27
141	Metrics for Evaluating Video Streaming Quality in Lossy IEEE 802.11 Wireless Networks <b>2010</b> ,		26
140	ARTSense: Anonymous reputation and trust in participatory sensing <b>2013</b> ,		25
139	A novel cooperative localization algorithm using enhanced particle filter technique in maritime search and rescue wireless sensor network. <i>ISA Transactions</i> , <b>2018</b> , 78, 39-46	5.5	24
138	Provenance-Based Information Trustworthiness Evaluation in Multi-Hop Networks <b>2010</b> ,		23
137	Contextual localization through network traffic analysis <b>2014</b> ,		22
136	Characterization of E-Commerce Traffic. <i>Electronic Commerce Research</i> , <b>2003</b> , 3, 167-192	2.1	22
135	A signaling game model for moving target defense <b>2017</b> ,		21
134	Stealthy attacks meets insider threats: A three-player game model <b>2015</b> ,		21
133	Dynamic speed scaling for energy minimization in delay-tolerant smartphone applications <b>2014</b> ,		21
132	Integration Gain of Heterogeneous WiFi/WiMAX Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2011</b> , 10, 1131-1143	4.6	21

131	Improving crowd-sourced Wi-Fi localization systems using Bluetooth beacons <b>2012</b> ,		21
130	Energy Expenditure Estimation using Smartphone Body Sensors <b>2013</b> ,		21
129	BF-IoT: Securing the IoT Networks via Fingerprinting-Based Device Authentication <b>2018</b> ,		21
128	ACES: An efficient admission control scheme for QoS-aware web servers. <i>Computer Communications</i> , <b>2003</b> , 26, 1581-1593	5.1	20
127	RSS-Ratio for enhancing performance of RSS-based applications <b>2013</b> ,		19
126	From Theory to Practice: Evaluating Static Channel Assignments on a Wireless Mesh Network <b>2010</b> ,		19
125	Hearing is believing: Detecting mobile primary user emulation attack in white space <b>2011</b> ,		19
124	Identity-based attack detection in mobile wireless networks <b>2011</b> ,		19
123	Admission Control and Interference-Aware Scheduling in Multi-hop WiMAX Networks <b>2007</b> ,		19
122	Video Delivery Challenges and Opportunities in 4G Networks. <i>IEEE MultiMedia</i> , <b>2013</b> , 20, 88-94	2.1	18
121	Inferring user relationship from hidden information in WLANs <b>2012</b> ,		18
120	Hearing Is Believing: Detecting Wireless Microphone Emulation Attacks in White Space. <i>IEEE Transactions on Mobile Computing</i> , <b>2013</b> , 12, 401-411	4.6	18
119	Live Video Forensics: Source Identification in Lossy Wireless Networks. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2015</b> , 10, 28-39	8	17
118	BGP convergence delay after multiple simultaneous router failures: Characterization and solutions. <i>Computer Communications</i> , <b>2009</b> , 32, 1207-1218	5.1	17
117	Channel Assignment and Link Scheduling in Multi-Radio Multi-Channel Wireless Mesh Networks. <i>Mobile Networks and Applications</i> , <b>2008</b> , 13, 169-185	2.9	17
116	Characterization of BGP Recovery Time under Large-Scale Failures <b>2006</b> ,		17
115	Vulnerabilities in Federated Learning. <i>IEEE Access</i> , <b>2021</b> , 9, 63229-63249	3.5	17
114	Mobility-Assisted Energy-Aware User Contact Detection in Mobile Social Networks <b>2013</b> ,		16

113	Adaptive per hop differentiation for end-to-end delay assurance in multihop wireless networks. <i>Ad Hoc Networks</i> , <b>2009</b> , 7, 1169-1182	4.8	16
112	Overlay multicast for MANETs using dynamic virtual mesh. <i>Wireless Networks</i> , <b>2007</b> , 13, 77-91	2.5	16
111	Using Deep Learning for Energy Expenditure Estimation with wearable sensors <b>2015</b> ,		15
110	QuRiNet: A wide-area wireless mesh testbed for research and experimental evaluations. <i>Ad Hoc Networks</i> , <b>2011</b> , 9, 1221-1237	4.8	15
109	Missing data recovery using reconstruction in ocean wireless sensor networks. <i>Computer Communications</i> , <b>2018</b> , 132, 1-9	5.1	15
108	WearIA: Wearable device implicit authentication based on activity information <b>2017</b> ,		14
107	Spanning tree elevation protocol: Enhancing metro Ethernet performance and QoS. <i>Computer Communications</i> , <b>2009</b> , 32, 750-765	5.1	14
106	Scalable internet servers. <i>Performance Evaluation Review</i> , <b>2000</b> , 28, 5-8	0.4	14
105	Edge-prioritized channel- and traffic-aware uplink Carrier Aggregation in LTE-advanced systems <b>2012</b> ,		13
104	Comparing simulation tools and experimental testbeds for wireless mesh networks. <i>Pervasive and Mobile Computing</i> , <b>2011</b> , 7, 434-448	3.5	13
103	Distributed Scheduling and Routing in Underwater Wireless Networks <b>2010</b> ,		13
102	Prediction based opportunistic routing for maritime search and rescue wireless sensor network. <i>Journal of Parallel and Distributed Computing</i> , <b>2018</b> , 111, 56-64	4.4	12
101	Quality-optimized downlink scheduling for video streaming applications in LTE networks <b>2012</b> ,		12
100	RECOG: A Sensing-Based Cognitive Radio System with Real-Time Application Support. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 2504-2516	14.2	12
99	Seeker: A bandwidth-based association control framework for wireless mesh networks. <i>Wireless Networks</i> , <b>2011</b> , 17, 1287-1304	2.5	12
98	Efficient data capturing for network forensics in cognitive radio networks <b>2011</b> ,		12
97	Opportunistic spectrum scheduling for mobile cognitive radio networks in white space <b>2011</b> ,		12
96	How expensive are free smartphone apps?. <i>Mobile Computing and Communications Review</i> , <b>2012</b> , 16, 21-32		12

95	Determining 802.11 link quality with passive measurements <b>2008</b> ,		12
94	Dynamic Channel Assignment and Link Scheduling in Multi-Radio Multi-Channel Wireless Mesh Networks <b>2007</b> ,		12
93	QRPP1-4: Characterizing Quality of Time and Topology in a Time Synchronization Network. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , <b>2006</b> ,		12
92	Stealthy attacks with insider information: A game theoretic model with asymmetric feedback <b>2016</b> ,		12
91	Comparing simulation tools and experimental testbeds for wireless mesh networks <b>2010</b> ,		11
90	Scheduling in multihop WiMAX networks. <i>Mobile Computing and Communications Review</i> , <b>2008</b> , 12, 1-11		11
89	PANDA: A novel mechanism for flooding based route discovery in ad hoc networks. <i>Wireless Networks</i> , <b>2006</b> , 12, 771-787	2.5	11
88	Efficient admission control algorithms for multimedia servers. <i>Multimedia Systems</i> , <b>1999</b> , 7, 294-304	2.2	11
87	IoTGaze: IoT Security Enforcement via Wireless Context Analysis <b>2020</b> ,		11
86	Hardware Architecture for Video Authentication Using Sensor Pattern Noise. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2014</b> , 24, 157-167	6.4	10
85	On insider misbehavior detection in cognitive radio networks. <i>IEEE Network</i> , <b>2013</b> , 27, 4-9	11.4	10
84	An adaptive privacy-preserving scheme for location tracking of a mobile user <b>2013</b> ,		10
83	Poster Abstract: Human Tracking and Activity Monitoring Using 60 GHz mmWave <b>2016</b> ,		9
82	Joint Video Compression and Encryption using Arithmetic Coding and chaos <b>2010</b> ,		9
81	Routing-as-a-Service (RaaS): A framework For tenant-directed route control in data center <b>2011</b> ,		9
80	Sense and Deploy: Blockage-Aware Deployment of Reliable 60 GHz mmWave WLANs <b>2018</b> ,		9
79	Scheduling of wireless control networks based on IEEE 802.15.4 networks: Mixed traffic environment. <i>Control Engineering Practice</i> , <b>2011</b> , 19, 1223-1230	3.9	8
78	Recent advances and evolution of WLAN and WMAN standards [Guest Editorial]. <i>IEEE Wireless Communications</i> , <b>2008</b> , 15, 54-55	13.4	8

77	A framework for self-healing and optimizing routing techniques for mobile ad hoc networks. <i>Wireless Networks</i> , <b>2008</b> , 14, 29-46	2.5	8
76	Hierarchical multicast techniques and scalability in mobile Ad Hoc networks. <i>Ad Hoc Networks</i> , <b>2006</b> , 4, 586-606	4.8	8
75	Efficient target detection in maritime search and rescue wireless sensor network using data fusion. <i>Computer Communications</i> , <b>2019</b> , 136, 53-62	5.1	7
74	Non-Intrusive Multi-Modal Estimation of Building Occupancy <b>2017</b> ,		7
73	Video source identification in lossy wireless networks <b>2013</b> ,		7
72	LeakSemantic: Identifying abnormal sensitive network transmissions in mobile applications <b>2017</b> ,		7
71	Routing-as-a-Service (RaaS): A Framework for Tenant-Directed Route Control in Data Center. <i>IEEE/ACM Transactions on Networking</i> , <b>2014</b> , 22, 1401-1414	3.8	7
70	Quality-Oriented Video Delivery over LTE Using Adaptive Modulation and Coding <b>2011</b> ,		7
69	QuRiNet: A wide-area wireless mesh testbed for research and experimental evaluations <b>2010</b> ,		7
68	QoS-aware multicasting in DiffServ domains. <i>Computer Communication Review</i> , <b>2004</b> , 34, 47-57	1.4	7
67	Machine Learning to Improve Energy Expenditure Estimation in Children With Disabilities: A Pilot Study in Duchenne Muscular Dystrophy. <i>JMIR Rehabilitation and Assistive Technologies</i> , <b>2016</b> , 3, e7	3.2	7
66	DATALET: An approach to manage big volume of data in cyber foraged environment. <i>Journal of Parallel and Distributed Computing</i> , <b>2019</b> , 131, 14-28	4.4	6
65	QoE prediction model for mobile video telephony. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 7957-7980	4.5	6
64	Cross-layer coordination for efficient contents delivery in LTE eMBMS traffic <b>2012</b> ,		6
63	A Context-Aware HTML/XML Document Transmission Process for Mobile Wireless Clients. <i>World Wide Web</i> , <b>2005</b> , 8, 439-461	2.9	6
62	Processor Allocation Using Partitioning in Mesh Connected Parallel Computers. <i>Journal of Parallel and Distributed Computing</i> , <b>1996</b> , 39, 181-190	4.4	6
61	. <i>IEEE/ACM Transactions on Networking</i> , <b>2017</b> , 25, 1459-1474	3.8	5
60	Keeping Context In Mind: Automating Mobile App Access Control with User Interface Inspection <b>2019</b> ,		5

59	Resource allocation using Link State Propagation in OFDMA femto networks. <i>Computer Communications</i> , <b>2014</b> , 46, 3-9	5.1	5
58	Using Chaotic Maps for Encrypting Image and Video Content <b>2011</b> ,		5
57	Collusion-resilient quality of information evaluation based on information provenance <b>2011</b> ,		5
56	Adaptive Scheduling of Prioritized Traffic in IEEE 802.16j Wireless Networks <b>2009</b> ,		5
55	APHD: End-to-End Delay Assurance in 802.11e Based MANETs <b>2006</b> ,		5
54	Multicasting in MPLS domains. <i>Computer Communications</i> , <b>2004</b> , 27, 162-170	5.1	5
53	An Acoustic-Based Encounter Profiling System. <i>IEEE Transactions on Mobile Computing</i> , <b>2018</b> , 17, 1750-1763	4.6	5
52	Throughput, energy efficiency and interference characterisation of 802.11ac. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2017</b> , 28, e2946	1.9	4
51	Toward Deployable Methods for Assessment of Quality for Scalable IPTV Services. <i>IEEE Transactions on Broadcasting</i> , <b>2013</b> , 59, 223-237	4.7	4
50	Spatio-temporal provenance: Identifying location information from unstructured text <b>2013</b> ,		4
49	Energy Expenditure Estimation in boys with Duchene muscular dystrophy using accelerometer and heart rate sensors <b>2014</b> ,		4
48	MagPairing: Exploiting magnetometers for pairing smartphones in close proximity <b>2014</b> ,		4
47	Chaining for securing data provenance in distributed information networks <b>2012</b> ,		4
46	Retransmission-aware queuing and routing for video streaming in wireless mesh networks <b>2011</b> ,		4
45	Exposing Complex Bug-Triggering Conditions in Distributed Systems via Graph Mining <b>2011</b> ,		4
44	Dynamic Real-Time Task Scheduling on Hypercubes. <i>Journal of Parallel and Distributed Computing</i> , <b>1997</b> , 46, 91-100	4.4	4
43	Experimental Study of Measurement-based Admission Control for Wireless Mesh Networks <b>2007</b> ,		4
42	Mobile Target Tracking Using Sensor Networks <b>2006</b> , 173-196		4



41	QMBF: a QoS-aware multicast routing protocol. <i>Computer Communications</i> , <b>2003</b> , 26, 611-621	5.1	4
40	Using differentiated services to support Internet telephony. <i>Computer Communications</i> , <b>2001</b> , 24, 1846-1854	5.54	4
39	Quality-Oriented Video Delivery over LTE. <i>Journal of Computing Science and Engineering</i> , <b>2013</b> , 7, 168-176.8	6.8	4
38	Towards Automatic Detection of Nonfunctional Sensitive Transmissions in Mobile Applications. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	3
37	FlowIntent: Detecting Privacy Leakage from User Intention to Network Traffic Mapping <b>2016</b> ,		3
36	Enabling privacy-preserving first-person cameras using low-power sensors <b>2015</b> ,		3
35	Trustworthy Wireless Networks: Issues and Applications (Invited Paper) <b>2010</b> ,		3
34	Scheduling Prioritized Services in Multihop OFDMA Networks. <i>IEEE/ACM Transactions on Networking</i> , <b>2010</b> , 18, 1780-1792	3.8	3
33	Architectures for Simultaneous Coding and Encryption Using Chaotic Maps <b>2011</b> ,		3
32	Experimental Anatomy of Packet Losses in Wireless Mesh Networks <b>2009</b> ,		3
31	LAKER: learning from past actions to guide future behaviors in ad hoc routing. <i>Wireless Communications and Mobile Computing</i> , <b>2007</b> , 7, 495-511	1.9	3
30	A Scalable Hybrid Approach to Switching in Metro Ethernet Networks <b>2007</b> ,		3
29	Using service brokers for accessing backend servers for web applications. <i>Journal of Network and Computer Applications</i> , <b>2005</b> , 28, 57-74	7.9	3
28	Smart Contract-based Computing Resources Trading in Edge Computing <b>2020</b> ,		3
27	Mobile Cloud Computing and Wireless Sensor Networks: A review, integration architecture, and future directions. <i>IET Networks</i> , <b>2021</b> , 10, 141	2.8	3
26	Type, Talk, or Swype: Characterizing and comparing energy consumption of mobile input modalities. <i>Pervasive and Mobile Computing</i> , <b>2016</b> , 26, 57-70	3.5	3
25	. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 19, 1603-1617	4.6	3
24	Game Theoretic Characterization of Collusive Behavior Among Attackers <b>2018</b> ,		3

23	An Overview of Fairness in Clustering. <i>IEEE Access</i> , <b>2021</b> , 9, 130698-130720	3.5	3
22	BeamSniff: Enabling Seamless Communication under Mobility and Blockage in 60 GHz Networks <b>2019</b> ,		2
21	MotionSync <b>2016</b> ,		2
20	Characterization of wireless multi-device users <b>2015</b> ,		2
19	On Availability-Performability Tradeoff in Wireless Mesh Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2015</b> , 14, 606-618	4.6	2
18	Comments on Brithmetic coding as a non-linear dynamical system $\square$ <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2012</b> , 17, 4536-4543	3.7	2
17	Experimental Work Versus Simulation in the Study of Mobile Ad Hoc Networks <b>2013</b> , 191-238		2
16	Quail Ridge Wireless Mesh Network: Experiences, Challenges and Findings <b>2007</b> ,		2
15	Speculative Route Invalidation to Improve BGP Convergence Delay under Large-Scale Failures. <i>Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on</i> , <b>2006</b> ,		2
14	An efficient bandwidth management scheme for real-time Internet applications. <i>Computer Communications</i> , <b>2002</b> , 25, 1596-1605	5.1	2
13	Suspicion-Free Adversarial Attacks on Clustering Algorithms. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 3625-3632	5	2
12	IoTspy: Uncovering Human Privacy Leakage in IoT Networks via Mining Wireless Context <b>2020</b> ,		2
11	FastTrust: Fast and Anonymous Spatial-Temporal Trust for Connected Cars on Expressways <b>2018</b> ,		1
10	StrLight: An Imperceptible Visible Light Communication System with String Lights. <i>IEEE Transactions on Mobile Computing</i> , <b>2019</b> , 18, 1674-1687	4.6	1
9	SWIM: A Switch Manager for Datacenter Networks. <i>IEEE Internet Computing</i> , <b>2014</b> , 18, 30-36	2.4	1
8	Resource Allocation in OFDMA Femto Networks <b>2013</b> ,		1
7	Long-Term Privacy Profiling through Smartphone Sensors <b>2015</b> ,		1
6	Joint carrier aggregation and packet scheduling in LTE-advanced networks <b>2013</b> ,		1

5	A study of overheads and accuracy for efficient monitoring of wireless mesh networks. <i>Pervasive and Mobile Computing</i> , <b>2010</b> , 6, 93-111	3.5	1
4	Current research trends in internet servers. <i>Performance Evaluation Review</i> , <b>2001</b> , 29, 5-7	0.4	1
3	Workshop on performance and architecture of web servers. <i>SIGMOD Record</i> , <b>2000</b> , 29, 12-14	1.1	1
2	Identity-Based Attack Detection and Classification Utilizing Reciprocal RSS Variations in Mobile Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	1
1	iOceanSee: A Novel Scheme for Ocean State Estimation Using 3D Mobile Convolutional Neural Network. <i>IEEE Access</i> , <b>2020</b> , 8, 153774-153786	3.5	