

# Prasant Mohapatra

## List of Publications by Year in descending order

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Version: 2024-02-01

184  
papers

5,581  
citations

236612

25  
h-index

128067

60  
g-index

187  
all docs

187  
docs citations

187  
times ranked

5241  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible Light Communication, Networking, and Sensing: A Survey, Potential and Challenges. IEEE Communications Surveys and Tutorials, 2015, 17, 2047-2077.	24.8	1,099
2	Analytical modeling and mitigation techniques for the energy hole problem in sensor networks. Pervasive and Mobile Computing, 2007, 3, 233-254.	2.1	342
3	Trust Computations and Trust Dynamics in Mobile Adhoc Networks: A Survey. IEEE Communications Surveys and Tutorials, 2012, 14, 279-298.	24.8	282
4	WiWho: WiFi-Based Person Identification in Smart Spaces. , 2016, , .		236
5	Non-cryptographic authentication and identification in wireless networks [Security and Privacy in Emerging Wireless Networks. IEEE Wireless Communications, 2010, 17, 56-62.	6.6	211
6	Exploiting Multiple-Antenna Diversity for Shared Secret Key Generation in Wireless Networks. , 2010, , .		152
7	Using humans as sensors: An estimation-theoretic perspective. , 2014, , .		138
8	Predicting user traits from a snapshot of apps installed on a smartphone. Mobile Computing and Communications Review, 2014, 18, 1-8.	1.7	109
9	Dynamic defense strategy against advanced persistent threat with insiders. , 2015, , .		104
10	Enabling reputation and trust in privacy-preserving mobile sensing. IEEE Transactions on Mobile Computing, 2014, 13, 2777-2790.	3.9	97
11	Probability Density of the Received Power in Mobile Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3613-3619.	6.1	83
12	Vulnerabilities in Federated Learning. IEEE Access, 2021, 9, 63229-63249.	2.6	75
13	Improving energy efficiency of Wi-Fi sensing on smartphones. , 2011, , .		68
14	PBA: Prediction-Based Authentication for Vehicle-to-Vehicle Communications. IEEE Transactions on Dependable and Secure Computing, 2016, 13, 71-83.	3.7	68
15	Simultaneously Reducing Latency and Power Consumption in OpenFlow Switches. IEEE/ACM Transactions on Networking, 2014, 22, 1007-1020.	2.6	66
16	Your Installed Apps Reveal Your Gender and More!. Mobile Computing and Communications Review, 2015, 18, 55-61.	1.7	59
17	Adaptive Wireless Channel Probing for Shared Key Generation Based on PID Controller. IEEE Transactions on Mobile Computing, 2013, 12, 1842-1852.	3.9	56
18	ARTSense: Anonymous reputation and trust in participatory sensing. , 2013, , .		55

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19	Performance Improvement of Allocation Schemes for Mesh-Connected Computers. Journal of Parallel and Distributed Computing, 1998, 52, 40-68.	2.7	52
20	Characterizing privacy leakage of public WiFi networks for users on travel. , 2013, , .		50
21	Real-time scheduling method for networked discrete control systems. Control Engineering Practice, 2009, 17, 564-570.	3.2	48
22	MagPairing: Pairing Smartphones in Close Proximity Using Magnetometers. IEEE Transactions on Information Forensics and Security, 2016, 11, 1306-1320.	4.5	48
23	Trusted Collaborative Spectrum Sensing for Mobile Cognitive Radio Networks. IEEE Transactions on Information Forensics and Security, 2013, 8, 1497-1507.	4.5	46
24	STAMP: Enabling Privacy-Preserving Location Proofs for Mobile Users. IEEE/ACM Transactions on Networking, 2016, 24, 3276-3289.	2.6	43
25	On the deployment of wireless data back-haul networks. IEEE Transactions on Wireless Communications, 2007, 6, 1426-1435.	6.1	39
26	A novel cooperative localization algorithm using enhanced particle filter technique in maritime search and rescue wireless sensor network. ISA Transactions, 2018, 78, 39-46.	3.1	38
27	Metrics for Evaluating Video Streaming Quality in Lossy IEEE 802.11 Wireless Networks. , 2010, , .		37
28	Soft-TDMAC: A Software-Based 802.11 Overlay TDMA MAC with Microsecond Synchronization. IEEE Transactions on Mobile Computing, 2012, 11, 478-491.	3.9	36
29	Using Deep Learning for Energy Expenditure Estimation with wearable sensors. , 2015, , .		35
30	Adaptive wireless channel probing for shared key generation. , 2011, , .		33
31	Characterization of E-Commerce Traffic. Electronic Commerce Research, 2003, 3, 167-192.	3.0	32
32	Integration Gain of Heterogeneous WiFi/WiMAX Networks. IEEE Transactions on Mobile Computing, 2011, 10, 1131-1143.	3.9	32
33	ACES: An efficient admission control scheme for QoS-aware web servers. Computer Communications, 2003, 26, 1581-1593.	3.1	30
34	Channel Assignment and Link Scheduling in Multi-Radio Multi-Channel Wireless Mesh Networks. Mobile Networks and Applications, 2008, 13, 169-185.	2.2	30
35	A signaling game model for moving target defense. , 2017, , .		30
36	BF-IoT: Securing the IoT Networks via Fingerprinting-Based Device Authentication. , 2018, , .		30

#	ARTICLE	IF	CITATIONS
37	Identity-based attack detection in mobile wireless networks. , 2011, , .		29
38	Dynamic speed scaling for energy minimization in delay-tolerant smartphone applications. , 2014, , .		29
39	An Overview of Fairness in Clustering. IEEE Access, 2021, 9, 130698-130720.	2.6	28
40	Admission Control and Interference-Aware Scheduling in Multi-hop WiMAX Networks. , 2007, , .		27
41	Contextual localization through network traffic analysis. , 2014, , .		27
42	Improving crowd-sourced Wi-Fi localization systems using Bluetooth beacons. , 2012, , .		26
43	RSS-Ratio for enhancing performance of RSS-based applications. , 2013, , .		26
44	Stealthy attacks meets insider threats: A three-player game model. , 2015, , .		26
45	Live Video Forensics: Source Identification in Lossy Wireless Networks. IEEE Transactions on Information Forensics and Security, 2015, 10, 28-39.	4.5	26
46	Energy Expenditure Estimation using Smartphone Body Sensors. , 2013, , .		26
47	Adaptive per hop differentiation for end-to-end delay assurance in multihop wireless networks. Ad Hoc Networks, 2009, 7, 1169-1182.	3.4	25
48	Provenance-Based Information Trustworthiness Evaluation in Multi-Hop Networks. , 2010, , .		25
49	Hearing is believing: Detecting mobile primary user emulation attack in white space. , 2011, , .		25
50	From Theory to Practice: Evaluating Static Channel Assignments on a Wireless Mesh Network. , 2010, , .		24
51	Inferring user relationship from hidden information in WLANs. , 2012, , .		24
52	IoT Gaze: IoT Security Enforcement via Wireless Context Analysis. , 2020, , .		24
53	Video Delivery Challenges and Opportunities in 4G Networks. IEEE MultiMedia, 2013, 20, 88-94.	1.5	23
54	Hearing Is Believing: Detecting Wireless Microphone Emulation Attacks in White Space. IEEE Transactions on Mobile Computing, 2013, 12, 401-411.	3.9	23

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55	Comparing simulation tools and experimental testbeds for wireless mesh networks. , 2010, , .		22
56	Scalable internet servers. Performance Evaluation Review, 2000, 28, 5-8.	0.4	22
57	Characterization of BGP Recovery Time under Large-Scale Failures. , 2006, , .		21
58	QuRiNet: A wide-area wireless mesh testbed for research and experimental evaluations. Ad Hoc Networks, 2011, 9, 1221-1237.	3.4	21
59	Edge-prioritized channel- and traffic-aware uplink Carrier Aggregation in LTE-advanced systems. , 2012, , .		21
60	Prediction based opportunistic routing for maritime search and rescue wireless sensor network. Journal of Parallel and Distributed Computing, 2018, 111, 56-64.	2.7	21
61	Stealthy attacks with insider information: A game theoretic model with asymmetric feedback. , 2016, , .		20
62	Missing data recovery using reconstruction in ocean wireless sensor networks. Computer Communications, 2018, 132, 1-9.	3.1	20
63	PANDA: A novel mechanism for flooding based route discovery in ad hoc networks. Wireless Networks, 2006, 12, 771-787.	2.0	19
64	Overlay multicast for MANETs using dynamic virtual mesh. Wireless Networks, 2007, 13, 77-91.	2.0	19
65	BGP convergence delay after multiple simultaneous router failures: Characterization and solutions. Computer Communications, 2009, 32, 1207-1218.	3.1	19
66	Distributed Scheduling and Routing in Underwater Wireless Networks. , 2010, , .		19
67	WearIA: Wearable device implicit authentication based on activity information. , 2017, , .		19
68	High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation. IEEE Transactions on Mobile Computing, 2020, 19, 1603-1617.	3.9	19
69	Scheduling in multihop WiMAX networks. Mobile Computing and Communications Review, 2008, 12, 1-11.	1.7	18
70	Spanning tree elevation protocol: Enhancing metro Ethernet performance and QoS. Computer Communications, 2009, 32, 750-765.	3.1	18
71	Opportunistic spectrum scheduling for mobile cognitive radio networks in white space. , 2011, , .		18
72	How expensive are free smartphone apps?. Mobile Computing and Communications Review, 2012, 16, 21-32.	1.7	18

#	ARTICLE	IF	CITATIONS
73	Mobility-Assisted Energy-Aware User Contact Detection in Mobile Social Networks. , 2013, , .		18
74	Efficient target detection in maritime search and rescue wireless sensor network using data fusion. Computer Communications, 2019, 136, 53-62.	3.1	18
75	Efficient admission control algorithms for multimedia servers. Multimedia Systems, 1999, 7, 294-304.	3.0	16
76	QoS-aware multicasting in DiffServ domains. Computer Communication Review, 2004, 34, 47-57.	1.5	16
77	QRPP1-4: Characterizing Quality of Time and Topology in a Time Synchronization Network. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	16
78	A framework for self-healing and optimizing routing techniques for mobile ad hoc networks. Wireless Networks, 2008, 14, 29-46.	2.0	16
79	Comparing simulation tools and experimental testbeds for wireless mesh networks. Pervasive and Mobile Computing, 2011, 7, 434-448.	2.1	15
80	Quality-optimized downlink scheduling for video streaming applications in LTE networks. , 2012, , .		15
81	LeakSemantic: Identifying abnormal sensitive network transmissions in mobile applications. , 2017, , .		15
82	Sense and Deploy: Blockage-Aware Deployment of Reliable 60 GHz mmWave WLANs. , 2018, , .		15
83	Hierarchical multicast techniques and scalability in mobile Ad Hoc networks. Ad Hoc Networks, 2006, 4, 586-606.	3.4	14
84	Determining 802.11 link quality with passive measurements. , 2008, , .		14
85	Scheduling of wireless control networks based on IEEE 802.15.4 networks: Mixed traffic environment. Control Engineering Practice, 2011, 19, 1223-1230.	3.2	14
86	Seeker: A bandwidth-based association control framework for wireless mesh networks. Wireless Networks, 2011, 17, 1287-1304.	2.0	14
87	On insider misbehavior detection in cognitive radio networks. IEEE Network, 2013, 27, 4-9.	4.9	14
88	Dynamic Channel Assignment and Link Scheduling in Multi-Radio Multi-Channel Wireless Mesh Networks. , 2007, , .		13
89	Joint Video Compression and Encryption using Arithmetic Coding and chaos. , 2010, , .		13
90	RECOG: A Sensing-Based Cognitive Radio System with Real-Time Application Support. IEEE Journal on Selected Areas in Communications, 2013, 31, 2504-2516.	9.7	13

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91	Hardware Architecture for Video Authentication Using Sensor Pattern Noise. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 157-167.	5.6	13
92	Non-Intrusive Multi-Modal Estimation of Building Occupancy. , 2017, , .		13
93	Efficient data capturing for network forensics in cognitive radio networks. , 2011, , .		12
94	Quality-Oriented Video Delivery over LTE Using Adaptive Modulation and Coding. , 2011, , .		12
95	Routing-as-a-Service (RaaS): A framework For tenant-directed route control in data center. , 2011, , .		12
96	An adaptive privacy-preserving scheme for location tracking of a mobile user. , 2013, , .		12
97	Adaptive Scheduling of Prioritized Traffic in IEEE 802.16j Wireless Networks. , 2009, , .		11
98	QoE prediction model for mobile video telephony. Multimedia Tools and Applications, 2016, 75, 7957-7980.	2.6	11
99	QuRiNet: A wide-area wireless mesh testbed for research and experimental evaluations. , 2010, , .		10
100	Using Chaotic Maps for Encrypting Image and Video Content. , 2011, , .		10
101	Routing-as-a-Service (RaaS): A Framework for Tenant-Directed Route Control in Data Center. IEEE/ACM Transactions on Networking, 2014, 22, 1401-1414.	2.6	10
102	FlowIntent: Detecting Privacy Leakage from User Intention to Network Traffic Mapping. , 2016, , .		10
103	Poster Abstract: Human Tracking and Activity Monitoring Using 60 GHz mmWave. , 2016, , .		10
104	DATALET: An approach to manage big volume of data in cyber foraged environment. Journal of Parallel and Distributed Computing, 2019, 131, 14-28.	2.7	10
105	Machine Learning to Improve Energy Expenditure Estimation in Children With Disabilities: A Pilot Study in Duchenne Muscular Dystrophy. JMIR Rehabilitation and Assistive Technologies, 2016, 3, e7.	1.1	10
106	Using differentiated services to support Internet telephony. Computer Communications, 2001, 24, 1846-1854.	3.1	9
107	Multicasting in MPLS domains. Computer Communications, 2004, 27, 162-170.	3.1	9
108	Chaining for securing data provenance in distributed information networks. , 2012, , .		9

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109	TIDE: A User-Centric Tool for Identifying Energy Hungry Applications on Smartphones. IEEE/ACM Transactions on Networking, 2017, 25, 1459-1474.	2.6	9
110	Keeping Context In Mind: Automating Mobile App Access Control with User Interface Inspection. , 2019, , .		9
111	Suspicion-Free Adversarial Attacks on Clustering Algorithms. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3625-3632.	3.6	9
112	QMBF: a QoS-aware multicast routing protocol. Computer Communications, 2003, 26, 611-621.	3.1	8
113	Recent advances and evolution of WLAN and WMAN standards [Guest Editorial]. IEEE Wireless Communications, 2008, 15, 54-55.	6.6	8
114	Video source identification in lossy wireless networks. , 2013, , .		8
115	Spatio-temporal provenance: Identifying location information from unstructured text. , 2013, , .		8
116	Smart Contract-based Computing Resources Trading in Edge Computing. , 2020, , .		8
117	Towards Automatic Detection of Nonfunctional Sensitive Transmissions in Mobile Applications. IEEE Transactions on Mobile Computing, 2021, 20, 3066-3080.	3.9	8
118	Mobile Cloud Computing and Wireless Sensor Networks: A review, integration architecture, and future directions. IET Networks, 2021, 10, 141-161.	1.1	8
119	Processor Allocation Using Partitioning in Mesh Connected Parallel Computers. Journal of Parallel and Distributed Computing, 1996, 39, 181-190.	2.7	7
120	A Context-Aware HTML/XML Document Transmission Process for Mobile Wireless Clients. World Wide Web, 2005, 8, 439-461.	2.7	7
121	Collusion-resilient quality of information evaluation based on information provenance. , 2011, , .		7
122	Retransmission-aware queuing and routing for video streaming in wireless mesh networks. , 2011, , .		7
123	Joint carrier aggregation and packet scheduling in LTE-advanced networks. , 2013, , .		7
124	IoTspy: Uncovering Human Privacy Leakage in IoT Networks via Mining Wireless Context. , 2020, , .		7
125	Experimental Study of Measurement-based Admission Control for Wireless Mesh Networks. , 2007, , .		6
126	Experimental Anatomy of Packet Losses in Wireless Mesh Networks. , 2009, , .		6



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127	Scheduling Prioritized Services in Multihop OFDMA Networks. IEEE/ACM Transactions on Networking, 2010, 18, 1780-1792.	2.6	6
128	Cross-layer coordination for efficient contents delivery in LTE eMBMS traffic. , 2012, , .		6
129	Type, Talk, or Swype: Characterizing and comparing energy consumption of mobile input modalities. Pervasive and Mobile Computing, 2016, 26, 57-70.	2.1	6
130	An Acoustic-Based Encounter Profiling System. IEEE Transactions on Mobile Computing, 2018, 17, 1750-1763.	3.9	6
131	Dynamic Real-Time Task Scheduling on Hypercubes. Journal of Parallel and Distributed Computing, 1997, 46, 91-100.	2.7	5
132	An efficient bandwidth management scheme for real-time Internet applications. Computer Communications, 2002, 25, 1596-1605.	3.1	5
133	Using service brokers for accessing backend servers for web applications. Journal of Network and Computer Applications, 2005, 28, 57-74.	5.8	5
134	Mobile Target Tracking Using Sensor Networks. , 2006, , 173-196.		5
135	APHD: End-to-End Delay Assurance in 802.11e Based MANETs. , 2006, , .		5
136	Quail Ridge Wireless Mesh Network: Experiences, Challenges and Findings. , 2007, , .		5
137	Exposing Complex Bug-Triggering Conditions in Distributed Systems via Graph Mining. , 2011, , .		5
138	MagPairing: Exploiting magnetometers for pairing smartphones in close proximity. , 2014, , .		5
139	Resource allocation using Link State Propagation in OFDMA femto networks. Computer Communications, 2014, 46, 3-9.	3.1	5
140	Throughput, energy efficiency and interference characterisation of 802.11ac. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2946.	2.6	5
141	Quality-Oriented Video Delivery over LTE. Journal of Computing Science and Engineering, 2013, 7, 168-176.	0.3	5
142	A Scalable Hybrid Approach to Switching in Metro Ethernet Networks. , 2007, , .		4
143	LAKER: learning from past actions to guide future behaviors in ad hoc routing. Wireless Communications and Mobile Computing, 2007, 7, 495-511.	0.8	4
144	Toward Deployable Methods for Assessment of Quality for Scalable IPTV Services. IEEE Transactions on Broadcasting, 2013, 59, 223-237.	2.5	4

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145	STAMP: Ad hoc spatial-temporal provenance assurance for mobile users. , 2013, , .		4
146	Energy Expenditure Estimation in boys with Duchene muscular dystrophy using accelerometer and heart rate sensors. , 2014, , .		4
147	Enabling privacy-preserving first-person cameras using low-power sensors. , 2015, , .		4
148	Characterization of wireless multi-device users. , 2015, , .		4
149	MotionSync. , 2016, , .		4
150	Game Theoretic Characterization of Collusive Behavior Among Attackers. , 2018, , .		4
151	FastTrust: Fast and Anonymous Spatial-Temporal Trust for Connected Cars on Expressways. , 2018, , .		4
152	IOTA: A Framework for Analyzing System-Level Security of IoTs. , 2022, , .		4
153	Speculative Route Invalidation to Improve BGP Convergence Delay under Large-Scale Failures. Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on, 2006, , .	0.0	3
154	APHD: End-to-End Delay Assurance in 802.11e Based MANETs. , 2006, , .		3
155	A study of overheads and accuracy for efficient monitoring of wireless mesh networks. Pervasive and Mobile Computing, 2010, 6, 93-111.	2.1	3
156	Trustworthy Wireless Networks: Issues and Applications (Invited Paper). , 2010, , .		3
157	Architectures for Simultaneous Coding and Encryption Using Chaotic Maps. , 2011, , .		3
158	Rendezvous based trust propagation to enhance distributed network security. , 2011, , .		3
159	On Availability-Performability Tradeoff in Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2015, 14, 606-618.	3.9	3
160	PCASA: Proximity Based Continuous and Secure Authentication of Personal Devices. , 2017, , .		3
161	BeamSniff: Enabling Seamless Communication under Mobility and Blockage in 60 GHz Networks. , 2019, , .		3
162	Comments on "arithmetic coding as a non-linear dynamical system": Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4536-4543.	1.7	2

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163	Long-Term Privacy Profiling through Smartphone Sensors. , 2015, , .		2
164	Current research trends in internet servers. Performance Evaluation Review, 2001, 29, 5-7.	0.4	2
165	Resource Allocation in OFDMA Femto Networks. , 2013, , .		1
166	SWIM: A Switch Manager for Datacenter Networks. IEEE Internet Computing, 2014, 18, 30-36.	3.2	1
167	StrLight: An Imperceptible Visible Light Communication System with String Lights. IEEE Transactions on Mobile Computing, 2019, 18, 1674-1687.	3.9	1
168	Identity-Based Attack Detection and Classification Utilizing Reciprocal RSS Variations in Mobile Wireless Networks. IEEE Transactions on Mobile Computing, 2022, 21, 1657-1671.	3.9	1
169	Workshop on performance and architecture of web servers. SIGMOD Record, 2000, 29, 12-14.	0.7	1
170	Securing Sensor Networks Using A Novel Multi-Channel Architecture. , 2006, , .		0
171	Improving Packet Delivery Performance of BGP During Large-Scale Failures. , 2007, , .		0
172	Research: Culture and Best Practices. , 2010, , .		0
173	Measurement-Based Short-Term Performance Prediction in Wireless Mesh Networks. , 2011, , .		0
174	Recent advances on practical aspects of Wireless Mesh Networks. Ad Hoc Networks, 2011, 9, 1371-1373.	3.4	0
175	Transmit power estimation with a single monitor in multi-band networks. , 2012, , .		0
176	Throughput-constrained scheduling in OFDMA wireless networks. , 2012, , .		0
177	Trust and independence aware decision fusion in distributed networks. , 2013, , .		0
178	Editorial: A Message from the Incoming Editor-in-Chief. IEEE Transactions on Mobile Computing, 2014, 13, 2-2.	3.9	0
179	EIC Editorial. IEEE Transactions on Mobile Computing, 2014, 13, 1393-1394.	3.9	0
180	EIC Editorial. IEEE Transactions on Mobile Computing, 2015, 14, 887-888.	3.9	0

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181	State of the Journal Editorial. IEEE Transactions on Mobile Computing, 2015, 14, 244-244.	3.9	0
182	Verification of User-Reported Context Claims with Context Correlation Model. , 2016, , .		0
183	Lincoln's Biodefense Strategy: Protecting the Agricultural Base. Health Security, 2019, 17, 80-81.	0.9	0
184	iOceanSee: A Novel Scheme for Ocean State Estimation Using 3D Mobile Convolutional Neural Network. IEEE Access, 2020, 8, 153774-153786.	2.6	0