Mani Srivastava

List of Publications by Year
in descending order

130 papers	5,863 citations	586496 16 h-index	563245 28 g-index
132 all docs	132 docs citations	132 times ranked	6107 citing authors

#	Article	IF	Citations
1	TinyOdom. , 2022, 6, 1-32.		9
2	DeepSQA. , 2021, , .		2
3	SecDeep. , 2021, , .		11
4	Protecting User Data Privacy with Adversarial Perturbations. , 2021, 2021, 386-387.		2
5	WristPrint: Characterizing User Re-identification Risks from Wrist-worn Accelerometry Data. , 2021, , .		1
6	Enabling Hyperparameter Tuning of Machine Learning Classifiers in Production. , 2021, , .		6
7	Rapid Trust Calibration through Interpretable and Uncertainty-Aware AI. Patterns, 2020, 1, 100049.	3.1	59
8	Mango: A Python Library for Parallel Hyperparameter Tuning. , 2020, , .		17
9	Time Awareness in Deep Learning-Based Multimodal Fusion Across Smartphone Platforms. , 2020, , .		12
10	Neuroplex. , 2020, , .		10
11	A Case for Feedforward Control with Feedback Trim to Mitigate Time Transfer Attacks. ACM Transactions on Privacy and Security, 2020, 23, 1-25.	2.2	1
12	Combining Individual and Joint Networking Behavior for Intelligent IoT Analytics. Lecture Notes in Computer Science, 2020, , 45-62.	1.0	0
13	DeepCEP: Deep Complex Event Processing Using Distributed Multimodal Information. , 2019, , .		8
14	DDFlow. , 2019, , .		14
15	RadHAR. , 2019, , .		108
16	NeuroMask: Explaining Predictions of Deep Neural Networks through Mask Learning. , 2019, , .		0
17	Can Fish and Cell Phones Teach Us about Our Health?. ACS Sensors, 2019, 4, 2566-2570.	4.0	2
18	DDF LOW visualized declarative programming for heterogeneous IoT networks on Heliot testbed platform. , 2019, , .		3

#	Article	IF	Citations
19	The Case for Robust Adaptation: Autonomic Resource Management is a Vulnerability. , 2019, , .		0
20	DEEP Reinforcement Learning Based Energy Beamforming for Powering Sensor Networks. , 2019, , .		1
21	Exploiting Smartphone Peripherals for Precise Time Synchronization. , 2019, , .		3
22	Securing Time in Untrusted Operating Systems with TimeSeal. , 2019, , .		8
23	Exploiting Smartphone Peripherals for Precise Time Synchronization. , 2019, , .		3
24	SpyCon: Adaptation Based Spyware in Human-in-the-Loop IoT. , 2019, , .		9
25	SenseHAR. , 2019, , .		30
26	RemedioT. , 2019, , .		15
27	In-database distributed machine learning. Proceedings of the VLDB Endowment, 2019, 12, 1854-1857.	2.1	9
28	Brick : Metadata schema for portable smart building applications. Applied Energy, 2018, 226, 1273-1292.	5.1	129
29	MiLift: Efficient Smartwatch-Based Workout Tracking Using Automatic Segmentation. IEEE Transactions on Mobile Computing, 2018, 17, 1609-1622.	3.9	48
30	VirtSense. , 2018, , .		6
31	Toward an Internet of Battlefield Things: A Resilience Perspective. Computer, 2018, 51, 24-36.	1.2	48
32	Internet of Personalized and Autonomous Things (IoPAT). , 2018, , .		4
33	Nurture. , 2018, , .		9
34	Sentio. , 2018, , .		13
35	Executing Analytics and Fusion Workloads on Transient Computing Resources in Tactical Environments. , 2018, , .		0
36	Deep Convolutional Bidirectional LSTM Based Transportation Mode Recognition. , 2018, , .		22

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37	Optimization vs. Reinforcement Learning for Wirelessly Powered Sensor Networks. , 2018, , .		8
38	Why the Failure? How Adversarial Examples Can Provide Insights for Interpretable Machine Learning. , 2018, , .		17
39	Learning and Reasoning in Complex Coalition Information Environments: A Critical Analysis. , 2018, , .		3
40	SLATS. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-25.	1.9	0
41	Will Distributed Computing Revolutionize Peace? The Emergence of Battlefield IoT. , 2018, , .		17
42	Give the machine a hand: A Boolean timeâ€based decisionâ€tree template for rapidly finding animal behaviours in multisensor data. Methods in Ecology and Evolution, 2018, 9, 2206-2215.	2.2	27
43	Enabling Edge Devices that Learn from Each Other. , 2018, , .		18
44	Accelerating Binarized Convolutional Neural Networks with Software-Programmable FPGAs. , 2017, , .		286
45	SeleCon. , 2017, 2017, 47-58.		14
46	PrOLoc. , 2017, , .		22
47	PrOLoc: resilient localization with private observers using partial homomorphic encryption. , 2017, , .		3
48	SenseGen: A deep learning architecture for synthetic sensor data generation. , 2017, , .		77
49	Center of Excellence for Mobile Sensor Data-to-Knowledge (MD2K). IEEE Pervasive Computing, 2017, 16, 18-22.	1.1	19
50	MyoBuddy. , 2017, , .		7
51	Emu. , 2017, 2017, 959-964.		0
52	PROTC. , 2017, , .		23
53	Exploring Hardware Heterogeneity to Improve Pervasive Context Inferences. Computer, 2017, 50, 19-26.	1.2	7
54	LightSpy: Optical eavesdropping on displays using light sensors on mobile devices. , 2017, , .		9

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55	EchoSafe. , 2017, , .		11
56	Node localization based on distributed constrained optimization using Jacobi's method. , 2017, , .		4
57	Binarized Convolutional Neural Networks with Separable Filters for Efficient Hardware Acceleration. , 2017, , .		17
58	Deep learning for situational understanding. , 2017, , .		12
59	Cognitive computing for coalition situational understanding. , 2017, , .		12
60	Interpretability of deep learning models: A survey of results. , 2017, , .		164
61	mCerebrum. , 2017, 2017, .		37
62	Data Hub Architecture for Smart Cities. , 2017, , .		2
63	AquaMote. , 2017, , .		1
64	D-SLATS. , 2017, , .		8
65	Brick. , 2016, , .		139
66	CryptoImg: Privacy preserving processing over encrypted images. , 2016, , .		21
67	Privacy-aware quadratic optimization using partially homomorphic encryption. , 2016, , .		59
68	Portable Queries Using the Brick Schema for Building Applications. , 2016, , .		1
69	Timeline: An Operating System Abstraction for Time-Aware Applications. , 2016, , .		11
70	mSieve. , 2016, 2016, 706-717.		31
71	Aggregating Crowdsourced Quantitative Claims: Additive and Multiplicative Models. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1621-1634.	4.0	16
72	Truth Discovery in Crowdsourced Detection of Spatial Events. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1047-1060.	4.0	44

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73	Parallel and Streaming Truth Discovery in Large-Scale Quantitative Crowdsourcing. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2984-2997.	4.0	24
74	From Pressure to Path. , 2015, 2015, 65-74.		38
75	PyCRA. , 2015, , .		95
76	Runtime Optimization of System Utility with Variable Hardware. Transactions on Embedded Computing Systems, 2015, 14, 1-25.	2.1	2
77	Bio-inspired underwater electrolocation through adaptive system identification. , 2015, , .		1
78	Debiasing crowdsourced quantitative characteristics in local businesses and services. , 2015, , .		35
79	AnonyCast. , 2015, , .		19
80	Center of excellence for mobile sensor data-to-knowledge (MD2K). Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1137-1142.	2.2	48
81	CAreDroid. , 2015, 2015, 386-399.		37
82	Towards a rich sensing stack for IoT devices. , 2014, , .		3
83	Truth Discovery in Crowdsourced Detection of Spatial Events. , 2014, , .		19
84	An iBeacon primer for indoor localization. , 2014, , .		80
85	NILMTK v0.2: a non-intrusive load monitoring toolkit for large scale data sets. , 2014, , .		32
86	NILMTK. , 2014, , .		317
87	Social spring. , 2014, , .		2
88	Non-invasive Spoofing Attacks for Anti-lock Braking Systems. Lecture Notes in Computer Science, 2013, , 55-72.	1.0	152
89	Cooperative sensor anomaly detection using global information. Tsinghua Science and Technology, 2013, 18, 209-219.	4.1	6
90	Hardware Variability-Aware Duty Cycling for Embedded Sensors. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 1000-1012.	2.1	19

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91	VarEMU: An emulation testbed for variability-aware software. , 2013, , .		20
92	Protecting data against unwanted inferences. , 2013, , .		11
93	PUCAA. , 2013, , .		1
94	Occupancy inferencing from non-intrusive data sources. , 2013, , .		1
95	Mobile Health: Revolutionizing Healthcare Through Transdisciplinary Research. Computer, 2013, 46, 28-35.	1.2	165
96	Minimax control for cyber-physical systems under network packet scheduling attacks. , 2013, , .		24
97	Low-cost appliance state sensing for energy disaggregation. , 2012, , .		9
98	OVERRIDE. , 2012, , .		12
99	DoubleDip. , 2012, , .		32
100	Model-based context privacy for personal data streams. , 2012, , .		3
101	Low-cost estimation of sub-system power. , 2012, , .		4
102	From measurements to sustainable choices [Persepectives]. IEEE Design and Test of Computers, 2012, 29, 58-60.	1.4	0
103	Human-centric sensing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 176-197.	1.6	127
104	Variability-aware duty cycle scheduling in long running embedded sensing systems. , 2011, , .		11
105	Editorial: Farewell and Introduction to the New Editor-in-Chief. IEEE Transactions on Mobile Computing, 2011, 10, 1-1.	3.9	2
106	Privacy risks emerging from the adoption of innocuous wearable sensors in the mobile environment. , 2011, , .		112
107	Editorial: Inttroduction of New Associate Editors. IEEE Transactions on Mobile Computing, 2010, 9, 1505-1507.	3.9	1
108	Scoped identifiers for efficient bit aligned logging. , 2010, , .		4

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109	Examining micro-payments for participatory sensing data collections. , 2010, , .		145
110	Biketastic. , 2010, , .		120
111	Using mobile phones to determine transportation modes. ACM Transactions on Sensor Networks, 2010, 6, 1-27.	2.3	622
112	Spectrum Signaling for Cognitive Underwater Acoustic Channel Allocation. , 2010, , .		11
113	Recruitment Framework for Participatory Sensing Data Collections. Lecture Notes in Computer Science, 2010, , 138-155.	1.0	281
114	Brief Announcement: Configuration of Actuated Camera Networks for Multi-target Coverage. Lecture Notes in Computer Science, 2010, , 282-284.	1.0	0
115	Body Area Networking: Technology and Applications. IEEE Journal on Selected Areas in Communications, 2009, 27, 1-4.	9.7	15
116	Angle-of-arrival-assisted Relative Interferometric localization using Software Defined Radios. , 2009, , .		9
117	Secure Location Verification with Hidden and Mobile Base Stations. IEEE Transactions on Mobile Computing, 2008, 7, 470-483.	3.9	111
118	Angle-of-arrival assisted Radio Interferometry (ARI) target localization. , 2008, , .		21
119	Determining transportation mode on mobile phones. , 2008, , .		73
120	A framework for data quality and feedback in participatory sensing. , 2007, , .		24
121	User Access of Public Shared Devices in Pervasive Computing Environments. , 2007, , .		3
122	Towards Balancing Medium Access Energy Trade-offs in Wireless Sensor Networks. , 2006, , .		1
123	Adaptive Dynamic Radio Open-source Intelligent Team (ADROIT): Cognitively-controlled Collaboration among SDR Nodes. , 2006, , .		11
124	Towards Balancing Medium Access Energy Trade-Offs in Wireless Sensor Networks. , 2006, , .		0
125	Smart Rooms. , 2005, , 295-322.		2
126	Energy efficient wireless packet scheduling and fair queuing. Transactions on Embedded Computing Systems, 2004, 3, 3-23.	2.1	38

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127	E2WFQ. , 2002, , .		21
128	Modulation scaling for Energy Aware Communication Systems. , 2001, , .		194
129	Design considerations for solar energy harvesting wireless embedded systems. , 0, , .		546
130	Network Services for Mobile Participatory Sensing. , 0, , 154-177.		0