John A Stankovic

List of Publications by Year
in descending order

98	5,831	394421 19	289244 40
papers	citations	h-index	g-index

98	98	98	5901
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	: Mobility-Driven Integration of Heterogeneous Urban Cyber-Physical Systems Under Disruptive Events<i />. IEEE Transactions on Mobile Computing, 2023, 22, 906-922.	5.8	1
2	Validity and Feasibility of the Monitoring and Modeling Family Eating Dynamics System to Automatically Detect In-field Family Eating Behavior: Observational Study. JMIR MHealth and UHealth, 2022, 10, e30211.	3.7	4
3	CitySpec: An Intelligent Assistant System for Requirement Specification in Smart Cities. , 2022, , .		4
4	An Intelligent Assistant for Converting City Requirements to Formal Specification. , 2022, , .		1
5	iWash: A smartwatch handwashing quality assessment and reminder system with real-time feedback in the context of infectious disease. Smart Health, 2021, 19, 100171.	3.2	17
6	Smarthealth technology study protocol to improve relationships between older adults with dementia and family caregivers. Journal of Advanced Nursing, 2021, 77, 2519-2529.	3.3	7
7	A Review of Cognitive Assistants for Healthcare. ACM Computing Surveys, 2021, 53, 1-37.	23.0	26
8	VoiSense. , 2021, , .		4
9	A Graduate Curriculum in Cyber-Physical Systems. IEEE Design and Test, 2021, 38, 112-120.	1.2	0
10	A Novel Spatialâ€“Temporal Specification-Based Monitoring System for Smart Cities. IEEE Internet of Things Journal, 2021, 8, 11793-11806.	8.7	19
11	Toward Formal Methods for Smart Cities. Computer, 2021, 54, 39-48.	1.1	8
12	Out-of-the-Box Deployment to Support Research on In-Home Care of Alzheimerâ€™s Patients. IEEE Pervasive Computing, 2021, , 1-11.	1.3	0
13	ViObject: A Smartwatch-based Object Recognition System via Vibrations. , 2021, , .		3
14	Challenges and Directions for Ambient Intelligence: A Cyber Physical Systems Perspective. , 2021, , .		3
15	Data Sets, Modeling, and Decision Making in Smart Cities. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-28.	2.5	25
16	HAWAD: Hand Washing Detection using Wrist Wearable Inertial Sensors. , 2020, , .		7
17	Stress Detection via Sensor Translation. , 2020, , .		6
18	Road network simplification for location-based services. GeoInformatica, 2020, 24, 801-826.	2.7	3

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19	SaSTL: Spatial Aggregation Signal Temporal Logic for Runtime Monitoring in Smart Cities. , 2020, , .		18
20	Automatic, wearable-based, in-field eating detection approaches for public health research: a scoping review. Npj Digital Medicine, 2020, 3, 38.	10.9	64
21	A monitoring, modeling, and interactive recommendation system for in-home caregivers. , 2020, , .		2
22	Sensing eating mimicry among family members. Translational Behavioral Medicine, 2019, 9, 422-430.	2.4	9
23	Adaptive Communication for Battery-Free Devices in Smart Homes. IEEE Internet of Things Journal, 2019, 6, 6977-6988.	8.7	10
24	A Behavior Tree Cognitive Assistant System for Emergency Medical Services. , 2019, , .		8
25	Battery-Free Smart Objects Based on RFID Backscattering. IEEE Internet of Things Magazine, 2019, 2, 32-36.	2.6	11
26	MORP. , 2018, 1, 1-35.		48
27	Towards a Cognitive Assistant System for Emergency Response. , 2018, , .		12
28	CityResolver: A Decision Support System for Conflict Resolution in Smart Cities. , 2018, , .		26
29	HealthNode: Software Framework for Efficiently Designing and Developing Cloud-Based Healthcare Applications. Mobile Information Systems, 2018, 2018, 1-12.	0.6	4
30	A Weakly Supervised Learning Framework for Detecting Social Anxiety and Depression. , 2018, 2, 1-26.		47
31	Planning Electric Vehicle Charging Stations Based on User Charging Behavior. , 2018, , .		31
32	An Automatic and Accurate Localization System for Firefighters. , 2018, , .		4
33	Preclude: Conflict detection in textual health advice. , 2017, , .		9
34	Simulating Conflict Detection in Heterogeneous Services of a Smart City. , 2017, , .		1
35	CityGuard. , 2017, , .		26
36	Taxi-Passenger-Demand Modeling Based on Big Data from a Roving Sensor Network. IEEE Transactions on Big Data, 2017, 3, 362-374.	6.1	41

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37	Efficient 3G/4G Budget Utilization in Mobile Sensing Applications. IEEE Transactions on Mobile Computing, 2017, 16, 1601-1614.	5.8	5
38	A 21st Century Cyber-Physical Systems Education. Computer, 2017, 50, 82-85.	1.1	23
39	Runtime Monitoring of Safety and Performance Requirements in Smart Cities. , 2017, , .		10
40	M^2G: A Monitor of Monitoring Systems with Ground Truth Validation Features for Research-Oriented Residential Applications. , 2017, , .		3
41	Real Time Distant Speech Emotion Recognition in Indoor Environments. , 2017, , .		2
42	Detection of Chronic Kidney Disease and Selecting Important Predictive Attributes. , 2016, , .		79
43	MedRem: an interactive medication reminder and tracking system on wrist devices. , 2016, , .		9
44	Taxi Dispatch With Real-Time Sensing Data in Metropolitan Areas: A Receding Horizon Control Approach. IEEE Transactions on Automation Science and Engineering, 2016, 13, 463-478.	5.2	132
45	Efficient and proactive V2V information diffusion using Named Data Networking. , 2016, , .		4
46	Participatory Sensing Meets Opportunistic Sharing: Automatic Phone-to-Phone Communication in Vehicles. IEEE Transactions on Mobile Computing, 2016, 15, 2550-2563.	5.8	14
47	M2FED. , 2016, , .		8
48	Reducing Energy Waste for Computers by Human-in-the-Loop Control. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 448-460.	4.6	10
49	FailureSense: Detecting Sensor Failure Using Electrical Appliances in the Home. , 2014, , .		18
50	MOBI-COG. , 2014, , .		15
51	DepSys: Dependency aware integration of cyber-physical systems for smart homes. , 2014, , .		42
52	An Automatic, Robust, and Efficient Multi-User Breadcrumb System for Emergency Response Applications. IEEE Transactions on Mobile Computing, 2014, 13, 723-736.	5.8	11
53	Research Directions for the Internet of Things. IEEE Internet of Things Journal, 2014, 1, 3-9.	8.7	1,506
54	Improving the Dependability of Sensornets. , 2013, , .		12

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55	CallCab: A unified recommendation system for carpooling and regular taxicab services. , 2013, , .		25
56	Intentional Forwarding: Providing reliable and real-time delivery in the presence of body shadowing in breadcrumb systems. , 2012, , .		1
57	Energy management in sensor networks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 52-67.	3.4	17
58	Kinsight: Localizing and Tracking Household Objects Using Depth-Camera Sensors. , 2012, , .		17
59	Asymmetric Event-Driven Node Localization in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 634-642.	5.6	21
60	WiP Abstract: Enabling Holistic Design of Body Sensor Networks. , 2012, , .		0
61	MultiNets: Policy Oriented Real-Time Switching of Wireless Interfaces on Mobile Devices. , 2012, , .		34
62	Bundle: A Group-Based Programming Abstraction for Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2012, 8, 379-392.	11.3	42
63	Body Sensor Networks: A Holistic Approach From Silicon to Users. Proceedings of the IEEE, 2012, 100, 91-106.	21.3	62
64	Design, Implementation, and Evaluation of a QoS-Aware Real-Time Embedded Database. IEEE Transactions on Computers, 2012, 61, 45-59.	3.4	29
65	Developing Safe and Dependable Sensornets. , 2011, , .		4
66	Dynamic Conflict-Free Transmission Scheduling for Sensor Network Queries. IEEE Transactions on Mobile Computing, 2011, 10, 734-748.	5.8	30
67	Efficient and reliable breadcrumb systems via coordination among multiple first responders. , 2011, , .		6
68	Wireless Sensor Networks for Healthcare. Proceedings of the IEEE, 2010, 98, 1947-1960.	21.3	516
69	ACR: Active Collision Recovery in Dense Wireless Sensor Networks. , 2010, , .		13
70	Predictive dependency constraint directed self-healing for wireless sensor networks. , 2010, , .		4
71	Mélange: Supporting heterogeneous QoS requirements in delay tolerant sensor networks. , 2010, , .		4
72	Cyber-physical systems. , 2010, , .		1,142

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73	IAA: Interference aware anticipatory algorithm for scheduling and routing periodic real-time streams in wireless sensor networks. , 2010, , .		3
74	Physicalnet: A Generic Framework for Managing and Programming Across Pervasive Computing Networks. , 2010, , .		24
75	QeDB: A Quality-Aware Embedded Real-Time Database. , 2009, , .		13
76	Towards Stable Network Performance in Wireless Sensor Networks. , 2009, , .		43
77	Performance Analysis of Group Based Detection for Sparse Sensor Networks. , 2008, , .		4
78	Power-Aware Data Buffer Cache Management in Real-Time Embedded Databases. , 2008, , .		3
79	Human in the loop. ACM SIGBED Review, 2008, 5, 1-2.	1.8	15
80	A fingerprint and timing-based snooping attack on residential sensor systems. ACM SIGBED Review, 2008, 5, 1-2.	1.8	5
81	CPS-IP. ACM SIGBED Review, 2008, 5, 1-2.	1.8	12
82	On accurate and efficient statistical counting in sensor-based surveillance systems. , 2008, , .		5
83	MetroNet: Case Study for Collaborative Data Sharing on the World Wide Web. , 2008, , .		2
84	I/O-Aware Deadline Miss Ratio Management in Real-Time Embedded Databases. , 2007, , .		22
85	ANDES: An ANalysis-Based DEsign Tool for Wireless Sensor Networks. , 2007, , .		19
86	EnviroMic: Towards Cooperative Storage and Retrieval in Audio Sensor Networks. , 2007, , .		43
87	DEEJAM: Defeating Energy-Efficient Jamming in IEEE 802.15.4-based Wireless Networks. , 2007, , .		155
88	Aggregator-Centric QoS for Body Sensor Networks. , 2007, , .		3
89	Robust and timely communication over highly dynamic sensor networks. Real-Time Systems, 2007, 37, 261-289.	1.3	49
90	Dynamic Conflict-free Query Scheduling for Wireless Sensor Networks. , 2006, , .		33

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91	SeeMote: In-Situ Visualization and Logging Device for Wireless Sensor Networks. , 2006, , .		17
92	Radio-Triggered Wake-Up for Wireless Sensor Networks. Real-Time Systems, 2005, 29, 157-182.	1.3	178
93	Research challenges for wireless sensor networks. ACM SIGBED Review, 2004, 1, 9-12.	1.8	84
94	AIDA. Transactions on Embedded Computing Systems, 2004, 3, 426-457.	2.9	173
95	Event Detection Services Using Data Service Middleware in Distributed Sensor Networks. Telecommunication Systems, 2004, 26, 351-368.	2.5	97
96	Differentiated Real-Time Data Services for E-Commerce Applications. Electronic Commerce Research, 2003, 3, 113-142.	5.0	16
97	Feedback Control Real-Time Scheduling: Framework, Modeling, and Algorithms*. Real-Time Systems, 2002, 23, 85-126.	1.3	413
98	The Spring System: Integrated Support for Complex Real-Time Systems. Real-Time Systems, 1999, 16, 223-251.	1.3	21