Stefan J Poslad

List of Publications by Year
in descending order

120 papers	1,831 citations	430874 18 h-index	454955 30 g-index
126 all docs	126 docs citations	126 times ranked	1803 citing authors

#	Article	IF	Citations
1	Specifying protocols for multi-agent systems interaction. ACM Transactions on Autonomous and Adaptive Systems, 2007, 2, 15.	0.8	98
2	A Semantic IoT Early Warning System for Natural Environment Crisis Management. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 246-257.	4.6	86
3	Using a Smart City IoT to Incentivise and Target Shifts in Mobility Behaviour—Is It a Piece of Pie?. Sensors, 2015, 15, 13069-13096.	3.8	80
4	Blockchain Support for Flexible Queries with Granular Access Control to Electronic Medical Records (EMR). , 2018, , .		74
5	Location-based Mobile Tourist Services - First User Experiences. , 2003, , 115-123.		65
6	An Enhanced Bag-of-Visual Word Vector Space Model to Represent Visual Content in Athletics Images. IEEE Transactions on Multimedia, 2012, 14, 211-222.	7.2	59
7	Temporal Convolutional Networks for Multiperson Activity Recognition Using a 2-D LIDAR. IEEE Internet of Things Journal, 2020, 7, 7432-7442.	8.7	45
8	Human Activity Detection and Coarse Localization Outdoors Using Micro-Doppler Signatures. IEEE Sensors Journal, 2019, 19, 8079-8094.	4.7	44
9	A BLE RSSI ranking based indoor positioning system for generic smartphones. , 2017, , .		43
10	Improving the Energy-Efficiency of GPS Based Location Sensing Smartphone Applications. , 2012, , .		39
11	The IPIN 2019 Indoor Localisation Competition—Description and Results. IEEE Access, 2020, 8, 206674-206718.	4.2	37
12	Off-Line Evaluation of Indoor Positioning Systems in Different Scenarios: The Experiences From IPIN 2020 Competition. IEEE Sensors Journal, 2022, 22, 5011-5054.	4.7	35
13	Wi-Fi RTT Ranging Performance Characterization and Positioning System Design. IEEE Transactions on Mobile Computing, 2022, 21, 740-756.	5.8	32
14	Improved Use of Foot Force Sensors and Mobile Phone GPS for Mobility Activity Recognition. IEEE Sensors Journal, 2014, 14, 4340-4347.	4.7	31
15	A Framework to Predict High-Resolution Spatiotemporal PM2.5 Distributions Using a Deep-Learning Model: A Case Study of Shijiazhuang, China. Remote Sensing, 2020, 12, 2825.	4.0	26
16	A new mould rush. , 2018, , .		24
17	A Public Transport Bus as a Flexible Mobile Smart Environment Sensing Platform for IoT. , 2016, , .		23
18	A Game-Theory Based Incentive Framework for an Intelligent Traffic System as Part of a Smart City Initiative. Sensors, 2017, 17, 2874.	3.8	23

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19	Block-Based Access Control for Blockchain-Based Electronic Medical Records (EMRs) Query in eHealth. , 2018, , .		22
20	A WiFi RSSI ranking fingerprint positioning system and its application to indoor activities of daily living recognition. International Journal of Distributed Sensor Networks, 2019, 15, 155014771983791.	2.2	22
21	Standardizing Agent Interoperability: The FIPA Approach. Lecture Notes in Computer Science, 2001, , 98-117.	1.3	22
22	A Suite of Robotic Solutions for Nuclear Waste Decommissioning. Robotics, 2021, 10, 112.	3.5	21
23	A Multi-Modal Incompleteness Ontology model (MMIO) to enhance information fusion for image retrieval. Information Fusion, 2014, 20, 225-241.	19.1	20
24	A Fuzzy Logic Module to Estimate a Driverâ€™s Fuel Consumption for Reality-Enhanced Serious Games. International Journal of Serious Games, 2018, 5, 45-62.	1.1	20
25	AN INTEGRATED APPROACH TO USER-CENTERED PRIVACY FOR MOBILE INFORMATION SERVICES. Applied Artificial Intelligence, 2006, 20, 159-178.	3.2	19
26	A Method for the Estimation of Finely-Grained Temporal Spatial Human Population Density Distributions Based on Cell Phone Call Detail Records. Remote Sensing, 2020, 12, 2572.	4.0	19
27	ERSP: An Energy-Efficient Real-Time Smartphone Pedometer. , 2013, , .		18
28	Kitchen Activity Detection for Healthcare using a Low-Power Radar-Enabled Sensor Network. , 2019, , .		18
29	Soft wearable non-vibratory tactile displays. , 2018, , .		17
30	A Very Low Cost, Open, Wireless, Internet of Things (IoT) Air Quality Monitoring Platform. , 2018, , .		16
31	Feature Merged Network for Oil Spill Detection Using SAR Images. Remote Sensing, 2021, 13, 3174.	4.0	16
32	Eco-driving Profiling and Behavioral Shifts Using IoT Vehicular Sensors Combined with Serious Games. , 2019, , .		15
33	An Adaptive Human Activity-Aided Hand-Held Smartphone-Based Pedestrian Dead Reckoning Positioning System. Remote Sensing, 2021, 13, 2137.	4.0	15
34	Adaptive security and privacy management for the internet of things (ASPI 2013). , 2013, , .		14
35	Exploiting hashtags for adaptive microblog crawling. , 2013, , .		13
36	Large-Scale, Fine-Grained, Spatial, and Temporal Analysis, and Prediction of Mobile Phone Usersâ€™ Distributions Based upon a Convolution Long Short-Term Model. Sensors, 2019, 19, 2156.	3.8	13

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37	Input variable selection in time-critical knowledge integration applications: A review, analysis, and recommendation paper. Advanced Engineering Informatics, 2013, 27, 519-536.	8.0	12
38	Short-Term Traffic Volume Prediction for Sustainable Transportation in an Urban Area. Journal of Computing in Civil Engineering, 2015, 29, 04014036.	4.7	12
39	Personalized Coverage of Large Athletic Events. IEEE MultiMedia, 2011, 18, 18-29.	1.7	11
40	Energy-Efficient Real-Time Human Mobility State Classification Using Smartphones. IEEE Transactions on Computers, 2014, , 1-1.	3.4	11
41	A better way to monitor haze through image based upon the adjusted LeNet-5 CNN model. Signal, Image and Video Processing, 2020, 14, 455-463.	2.7	11
42	A Soft Touch: Wearable Tactile Display of Softness Made of Electroactive Elastomers. Advanced Materials Technologies, 2021, 6, 2100016.	5.8	11
43	A Sharable Wearable Maker Community IoT Application. , 2016, , .		10
44	A SEMANTIC APPROACH TO HARMONIZING SECURITY MODELS FOR OPEN SERVICES. Applied Artificial Intelligence, 2006, 20, 353-379.	3.2	9
45	Design and Test of a Hybrid Foot Force Sensing and GPS System for Richer User Mobility Activity Recognition. Sensors, 2013, 13, 14918-14953.	3.8	9
46	Identifying relevant event content for real-time event detection. , 2014, , .		9
47	IoT Sensing for Reality-Enhanced Serious Games, a Fuel-Efficient Drive Use Case. Sensors, 2021, 21, 3559.	3.8	9
48	Using an Internet of Behaviours to Study How Air Pollution Can Affect People's Activities of Daily Living: A Case Study of Beijing, China. Sensors, 2021, 21, 5569.	3.8	9
49	Indoor Location and Orientation Determination for Wireless Personal Area Networks. Lecture Notes in Computer Science, 2009, , 91-105.	1.3	9
50	A New Post Correction Algorithm (PoCoA) for Improved Transportation Mode Recognition. , 2013, , .		8
51	A dielectric elastomer actuator-based tactile display for multiple fingertip interaction with virtual soft bodies. , 2017, , .		8
52	Device-Free, Activity During Daily Life, Recognition Using a Low-Cost Lidar. , 2018, , .		8
53	An efficient wireless access point selection algorithm for location determination based on RSSI interval overlap degree determination. , 2018, , .		8
54	Dynamic security reconfiguration for the semantic web. Engineering Applications of Artificial Intelligence, 2004, 17, 783-797.	8.1	8

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55	Multi-Disciplinary Approaches to Intelligently Sharing Large-Volumes of Real-Time Sensor Data During Natural Disasters. Data Science Journal, 2013, 12, WDS109-WDS113.	1.3	8
56	A Provable Semi-Outsourcing Privacy Preserving Scheme for Data Transmission From IoT Devices. IEEE Access, 2019, 7, 87169-87177.	4.2	7
57	Moldy Ghosts and Yeasty Invasions. , 2019, , .		7
58	Implementing Tactile and Proximity Sensing for Crack Detection. , 2020, , .		7
59	Visual content representation using semantically similar visual words. Expert Systems With Applications, 2011, 38, 11472-11481.	7.6	6
60	A Method to Evaluate the Energy-Efficiency of Wide-Area Location Determination Techniques Used by Smartphones. , 2012, , .		6
61	A fast path matching algorithm for indoor positioning systems using magnetic field measurements. , 2017, , .		6
62	WiFi Fingerprint Based, Indoor, Location-Driven Activities of Daily Living Recognition. , 2018, , .		6
63	Exploring Fuzzy Logic and Random Forest for Car Driversâ€™ Fuel Consumption Estimation in IoT-Enabled Serious Games. , 2019, , .		6
64	Semantic Restructuring of Natural Language Image Captions to Enhance Image Retrieval. Journal of Multimedia, 2009, 4, .	0.3	6
65	A Trajectory-Based Gesture Recognition in Smart Homes Based on the Ultrawideband Communication System. IEEE Internet of Things Journal, 2022, 9, 22861-22873.	8.7	6
66	Multi-agent systems research into the 21st century. Knowledge Engineering Review, 2001, 16, 271-275.	2.6	5
67	Directing your own live and interactive sports channel. , 2009, , .		5
68	A privacy-preserving consensus mechanism for an electric vehicle charging scheme. Journal of Network and Computer Applications, 2021, 174, 102908.	9.1	5
69	Estimation of global horizontal irradiance in China using a deep learning method. International Journal of Remote Sensing, 2021, 42, 3899-3917.	2.9	5
70	Toward growable computer games. Interactions, 2020, 27, 82-85.	1.0	5
71	Working with Nature's Lag: Initial Design Lessons for Slow Biotic Games. , 2020, , .		5
72	Automatic Fracture Characterization Using Tactile and Proximity Optical Sensing. Frontiers in Robotics and AI, 2020, 7, 513004.	3.2	5

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73	A Trust Framework for Peer-to-Peer Interaction in Ad Hoc Networks. , 2009, , .		4
74	Use of Granularity and Coverage in a User Profile Model to Personalise Visual Content Retrieval. , 2009, , .		4
75	Smart environment interaction: A user assessment of embedded agents. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 331-346.	1.4	4
76	Routing algorithm based on social relations in opportunistic networks. , 2015, , .		4
77	Position and Velocity Control for Telemanipulation with Interoperability Protocol. Lecture Notes in Computer Science, 2019, , 316-324.	1.3	4
78	Use of LSTM Regression and Rotation Classification to Improve Camera Pose Localization Estimation. , 2020, , .		4
79	Communications Systems Driven by Software Agent Technology. Journal of Network and Systems Management, 2000, 8, 321-347.	4.9	3
80	Middleware for semantic-based security and safety management of open services. International Journal of Web and Grid Services, 2005, 1, 305.	0.5	3
81	An Adaptive Semantic Framework to Support Multiple User Viewpoints over Multiple Databases. Studies in Computational Intelligence, 2008, , 261-284.	0.9	3
82	An Intelligent Context-Aware Spatial Routing System in Mobile Environment. , 2009, , .		3
83	Exploiting Multi-Agent Systems in realizing adaptivity in the Mobile Tourist Domain. AI Communications, 2009, 22, 109-116.	1.2	3
84	Autonomous Systems and Artificial Life. , 0, , 317-341.		3
85	A semi-outsourcing secure data privacy scheme for IoT data transmission. , 2017, , .		3
86	Engaging with computer science when solving tangible problems. , 2019, , .		3
87	A Challenge-Response Assisted Authorisation Scheme for Data Access in Permissioned Blockchains. Sensors, 2020, 20, 4681.	3.8	3
88	Enhanced Sports Image Annotation and Retrieval Based Upon Semantic Analysis of Multimodal Cues. Lecture Notes in Computer Science, 2009, , 817-828.	1.3	3
89	Fine-Grained Transportation Mode Recognition Using Mobile Phones and Foot Force Sensors. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 103-114.	0.3	3
90	Multi-modal robotic visual-tactile localisation and detection of surface cracks. , 2021, , .		3

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91	A reflective context-aware system for spatial routing applications. , 2008, , .		3
92	Adaptive Identification of Hashtags for Real-Time Event Data Collection. Lecture Notes in Social Networks, 2015, , 1-22.	0.1	3
93	Growable, Invisible, Connected Toys: Twitching Towards Ubiquitous Bacterial Computing. , 2019, , .		3
94	Quantitative spatiotemporal impact of dynamic population density changes on the COVID-19 pandemic in China's mainland. Geo-Spatial Information Science, 2023, 26, 642-663.	5.3	3
95	LALS: A Low Power Accelerometer Assisted Location Sensing technique for smartphones. , 2013, , .		2
96	Delay sensitive distributed sensor data exchange for an IoT. , 2013, , .		2
97	What Lies Above. , 2017, , .		2
98	Piecing together the puzzle: Improving event content coverage for real-time sub-event detection using adaptive microblog crawling. PLoS ONE, 2017, 12, e0187401.	2.5	2
99	The USHER System to Generate Semantic Personalised Maps for Travellers. Studies in Computational Intelligence, 2010, , 49-71.	0.9	2
100	Microbial Integration on Player Experience of Hybrid Bio-digital Games. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 148-159.	0.3	2
101	A Semantic Enhanced Adaptive Sharable Personalised Spatial Map for Mobile Users. , 2008, , .		1
102	Use of Semantic Enhancements to NLP of Image Captions to Aid Image Retrieval. , 2008, , .		1
103	Using Multi-agent Systems to Specify Safe and Secure Services for Virtual Organisations. Lecture Notes in Computer Science, 2009, , 258-273.	1.3	1
104	Applications and Requirements. , 0, , 41-73.		1
105	Intelligent Systems (IS). , 0, , 245-277.		1
106	Toward High-Level Visual Content Interpretation and Annotation for Sport Events. , 2010, , .		1
107	Semantically similar visual words discovery to facilitate visual invariance. , 2010, , .		1
108	Enabling Wearable Soft Tactile Displays with Electroactive Smart Elastomers. Lecture Notes in Computer Science, 2016, , 326-334.	1.3	1

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109	GPS Tarot. , 2017, , .		1
110	Internet of Things: Smart Ubiquitous Architecture of Intelligent Transport System. , 2018, , .		1
111	A Reflective Goal-Based System for Context-Aware Adaptation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 105-110.	0.3	1
112	A Dynamic Semantic Framework to Support Multiple User Viewpoints during Information Retrieval. , 2006, , .		0
113	Semantic representation of text captions to aid sport image retrieval. , 2009, , .		0
114	Personalised Live Sports Event Viewing on Mobile Devices. , 2009, , .		0
115	Intelligent Context-Based Adaptation for Spatial Routing Applications in Dynamic Environment. , 2009, , .		0
116	A Personalised Online Travel Time Prediction Model. , 2013, , .		0
117	Personalising Live Sports Video Zooming. , 2013, , .		0
118	Optimized Computation Combining Classification and Detection Networks with Distillation. , 2021, , .		0
119	Multi-Modal Ontology that Enhances Visual Content Retrieval System. International Journal of Electrical Energy, 2013, 1, 284-290.	0.4	0
120	How IoT-Driven Citizen Science Coupled with Data Satisficing Can Promote Deep Citizen Science. Sensors, 2022, 22, 3196.	3.8	0