

# Federica Pascucci

## 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.

77  
papers

617  
citations

14  
h-index

21  
g-index

85  
ext. papers

774  
ext. citations

2.4  
avg, IF

4.05  
L-index

#	Paper	IF	Citations
77	An outdoor navigation system using GPS and inertial platform. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2002</b> , 7, 134-142	5.5	104
76	Monitoring system reaction in cyber-physical testbed under cyber-attacks. <i>Computers and Electrical Engineering</i> , <b>2017</b> , 59, 86-98	4.3	28
75	Sensor Networks Localization: Extending Trilateration via Shadow Edges. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2752-2755	5.9	27
74	Multirobot Localisation Using Interlaced Extended Kalman Filter <b>2006</b> ,		24
73	An Interlaced Extended Information Filter for Self-Localization in Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2010</b> , 9, 1491-1504	4.6	23
72	An enhanced indoor positioning system for first responders <b>2013</b> ,		21
71	An Interlaced Extended Kalman Filter for sensor networks localisation. <i>International Journal of Sensor Networks</i> , <b>2009</b> , 5, 164	0.8	21
70	An Indoor and Outdoor Navigation System for Visually Impaired People. <i>IEEE Access</i> , <b>2019</b> , 7, 170406-170418	3.5	20
69	Fault Diagnosis and Network Anomaly Detection in Water Infrastructures. <i>IEEE Design and Test</i> , <b>2017</b> , 34, 44-51	1.4	17
68	Integrated protection of industrial control systems from cyber-attacks: the ATENA approach. <i>International Journal of Critical Infrastructure Protection</i> , <b>2018</b> , 21, 72-82	4.1	17
67	Characterization of Protein-Protein Interfaces through a Protein Contact Network Approach. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 170	5.8	16
66	Covert Channels-Based Stealth Attacks in Industry 4.0. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 3980-3988	4.3	15
65	Network Structural Vulnerability: A Multiobjective Attacker Perspective. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 2036-2049	7.3	14
64	Finding critical nodes in infrastructure networks. <i>International Journal of Critical Infrastructure Protection</i> , <b>2018</b> , 20, 3-15	4.1	14
63	Hybrid Indoor Positioning System for First Responders. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 468-479	7.3	13
62	A spatially structured genetic algorithm for multi-robot localization. <i>Intelligent Service Robotics</i> , <b>2009</b> , 2, 31-40	2.6	12
61	A Hybrid Active Global Localisation Algorithm for Mobile Robots. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,		12

60	<b>2007,</b>			12
59	A joint routing and localization algorithm for emergency scenario. <i>Ad Hoc Networks</i> , <b>2014</b> , 13, 19-33	4.8		11
58	3D pedestrian dead reckoning and activity classification using waist-mounted inertial measurement unit <b>2015,</b>			10
57	Decentralized Route Guidance Architectures with User Preferences in Urban Transportation Networks. <i>Procedia, Social and Behavioral Sciences</i> , <b>2014</b> , 111, 1054-1062			10
56	A Spatially Structured Genetic Algorithm over Complex Networks for Mobile Robot Localisation. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,			10
55	Monte Carlo Filter in Mobile Robotics Localization: A Clustered Evolutionary Point of View. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2006</b> , 47, 155-174	2.9		10
54	<b>2016,</b>			8
53	Communications network analysis in a SCADA system testbed under cyber-attacks <b>2015,</b>			7
52	<b>2012,</b>			7
51	C-IPS: A smartphone based Indoor Positioning System <b>2016,</b>			6
50	Indoor positioning system using walking pattern classification <b>2014,</b>			6
49	Situation awareness in critical infrastructures. <i>International Journal of Simulation and Process Modelling</i> , <b>2014</b> , 9, 92	0.4		5
48	<b>2014,</b>			5
47	Hybrid map building for personal indoor navigation systems <b>2014,</b>			5
46	Exploiting routing information in Wireless Sensor Networks localization <b>2013,</b>			5
45	An Indoor localization Framework for Hybrid Rescue Teams. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 4765-4770			5
44	An adaptive localization system for first responders <b>2011,</b>			5
43	Simultaneous localisation and mapping of a mobile robot via interlaced extended Kalman filter. <i>International Journal of Modelling, Identification and Control</i> , <b>2008</b> , 4, 68	0.6		5

42	Network localization by Shadow Edges <b>2013</b> ,		5
41	A testbed for integrated fault diagnosis and cyber security investigation <b>2016</b> ,		4
40	Decentralized Assignment for Intelligent Electric Vehicles to Recharge Stations <b>2014</b> ,		4
39	Assessing protein resilience via a complex network approach <b>2013</b> ,		4
38	A distributed extended information filter for Self-Localization in Sensor Networks <b>2008</b> ,		4
37	GENETIC APPROACH FOR A LOCALISATION PROBLEM BASED UPON PARTICLE FILTERS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 272-277		4
36	A Multiple-Criteria Decision Making method as support for critical infrastructure protection and Intrusion Detection System <b>2016</b> ,		4
35	MimePot: a Model-based Honeypot for Industrial Control Networks <b>2019</b> ,		4
34	On the Use of Fibonacci Sequences for Detecting Injection Attacks in Cyber Physical Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 41787-41798	3-5	4
33	Exploiting System Model for Securing CPS: the Anomaly Based IDS Perspective <b>2018</b> ,		4
32	Securing connection between IT and OT: the Fog Intrusion Detection System prospective <b>2019</b> ,		3
31	Simultaneous Localization and Routing in Sensor Networks using Shadow Edges. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 199-204		3
30	A RSSI-based technique for inter-distance computation in Multi-Robot Systems <b>2010</b> ,		3
29	<b>2006</b> ,		3
28	<b>2018</b> ,		3
27	A low cost smart glove for visually impaired people mobility <b>2015</b> ,		2
26	Localization of networks with presence and distance constraints based on 1-hop and 2-hop mass spring optimization. <i>ICT Express</i> , <b>2016</b> , 2, 19-22	4-9	2
25	Performance Analysis of Single and Multi-objective Approaches for the Critical Node Detection Problem. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2017</b> , 315-324	0.2	2

24	<b>2013,</b>		2
23	Path planning for marine fleet using heuristic approach. <i>International Journal of System of Systems Engineering</i> , <b>2013</b> , 4, 261	0.3	2
22	SIMULTANEOUS LOCALIZATION AND MAP BUILDING ALGORITHM FOR REAL-TIME APPLICATIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 457-462		2
21	Supporting Autonomous Navigation of Visually Impaired People for Experiencing Cultural Heritage. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 25-46	0.8	2
20	Distributed Cooperative Localization. <i>Journal of Information Technology Research</i> , <b>2013</b> , 6, 49-67	0.7	2
19	Critical Infrastructure Online Fault Detection: Application in Water Supply Systems. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 94-106	0.9	2
18	Improving Security in Industrial Internet of Things: A Distributed Intrusion Detection Methodology. <i>Advanced Sciences and Technologies for Security Applications</i> , <b>2019</b> , 161-179	0.6	1
17	Noisy localization over unit disk graphs: The shadow edge approach <b>2015,</b>		1
16	PDR and GPS trajectory parts matching for an improved self-contained personal navigation solution with handheld device <b>2017,</b>		1
15	Augmenting white cane reliability using smart glove for visually impaired people. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 8046-9	0.9	1
14	Probabilistic localization in sensor networks using distributed Kalman Filter. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 366-371		1
13	Interlaced extended Kalman filter for real time navigation <b>2005,</b>		1
12	A REAL-TIME ARCHITECTURE FOR LOW-COST VISION BASED ROBOTS NAVIGATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 479-484		1
11	SENECAN: Secure KEy Distribution OvEr CAN Through Watermarking and Jamming. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2022</b> , 1-1	3.9	0
10	Algorithms and Tools for Risk/Impact Evaluation in Critical Infrastructures. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 227-238	0.8	
9	AN INTEGRATED FRAMEWORK FOR SIMULTANEOUS ROBOT AND SENSOR NETWORK LOCALIZATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 131-136		
8	SENSOR NETWORKS LOCALISATION AND TRACKING VIA CONSENSUS UPDATE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 137-142		
7	The Smart Extension approach for securing industrial control systems. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11207-11212		

6 Distributed Multi-Robot Localization 391-406

5 Distributed Cooperative Localization **2019**, 469-490

4 Improving Situational Awareness for First Responders. *Lecture Notes in Computer Science*, **2016**, 355-361 0.9

3 How to Perform Verification and Validation of Critical Infrastructure Modeling Tools. *Lecture Notes in Computer Science*, **2013**, 116-127 0.9

2 Distributed Multi-Robot Localization. *Advances in Computational Intelligence and Robotics Book Series*, **2013**, 1-18 0.4

1 Faulty or Malicious Anchor Detection Criteria for Distance-Based Localization. *Lecture Notes in Computer Science*, **2018**, 229-240 0.9