

# Federica Pascucci

## List of Publications by Year in Descending Order

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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	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
76	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
75	The Smart Extension approach for securing industrial control systems. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11207-11212	3.7	1
74	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
73	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
72	Covert Channels-Based Stealth Attacks in Industry 4.0. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 3980-3988	4.3	15
71	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
70	Securing connection between IT and OT: the Fog Intrusion Detection System prospective <b>2019</b> ,		3
69	Distributed Cooperative Localization <b>2019</b> , 469-490		
68	An Indoor and Outdoor Navigation System for Visually Impaired People. <i>IEEE Access</i> , <b>2019</b> , 7, 170406-170418	3.5	20
67	MimePot: a Model-based Honeypot for Industrial Control Networks <b>2019</b> ,		4
66	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
65	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
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	Exploiting System Model for Securing CPS: the Anomaly Based IDS Perspective <b>2018</b> ,		4
62	<b>2018</b> ,		3
61	Faulty or Malicious Anchor Detection Criteria for Distance-Based Localization. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 229-240	0.9	

60	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
59	Fault Diagnosis and Network Anomaly Detection in Water Infrastructures. <i>IEEE Design and Test</i> , <b>2017</b> , 34, 44-51	1.4	17
58	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
57	PDR and GPS trajectory parts matching for an improved self-contained personal navigation solution with handheld device <b>2017</b> ,		1
56	<b>2016</b> ,		8
55	C-IPS: A smartphone based Indoor Positioning System <b>2016</b> ,		6
54	A testbed for integrated fault diagnosis and cyber security investigation <b>2016</b> ,		4
53	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
52	Improving Situational Awareness for First Responders. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 355-361	0.9	
51	A Multiple-Criteria Decision Making method as support for critical infrastructure protection and Intrusion Detection System <b>2016</b> ,		4
50	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
49	Sensor Networks Localization: Extending Trilateration via Shadow Edges. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2752-2755	5.9	27
48	Noisy localization over unit disk graphs: The shadow edge approach <b>2015</b> ,		1
47	A low cost smart glove for visually impaired people mobility <b>2015</b> ,		2
46	Communications network analysis in a SCADA system testbed under cyber-attacks <b>2015</b> ,		7
45	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
44	Algorithms and Tools for Risk/Impact Evaluation in Critical Infrastructures. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 227-238	0.8	
43	3D pedestrian dead reckoning and activity classification using waist-mounted inertial measurement unit <b>2015</b> ,		10

42	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, 2015</i> , 2015, 8046-9	0.9	1
41	A joint routing and localization algorithm for emergency scenario. <i>Ad Hoc Networks</i> , <b>2014</b> , 13, 19-33	4.8	11
40	Situation awareness in critical infrastructures. <i>International Journal of Simulation and Process Modelling</i> , <b>2014</b> , 9, 92	0.4	5
39	Decentralized Assignment for Intelligent Electric Vehicles to Recharge Stations <b>2014</b> ,		4
38	Indoor positioning system using walking pattern classification <b>2014</b> ,		6
37	<b>2014</b> ,		5
36	Hybrid map building for personal indoor navigation systems <b>2014</b> ,		5
35	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
34	Assessing protein resilience via a complex network approach <b>2013</b> ,		4
33	Exploiting routing information in Wireless Sensor Networks localization <b>2013</b> ,		5
32	<b>2013</b> ,		2
31	An enhanced indoor positioning system for first responders <b>2013</b> ,		21
30	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
29	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
28	Network localization by Shadow Edges <b>2013</b> ,		5
27	How to Perform Verification and Validation of Critical Infrastructure Modeling Tools. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 116-127	0.9	
26	Distributed Multi-Robot Localization. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2013</b> , 1-18	0.4	
25	Distributed Cooperative Localization. <i>Journal of Information Technology Research</i> , <b>2013</b> , 6, 49-67	0.7	2

24	<b>2012,</b>		7
23	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
22	An adaptive localization system for first responders <b>2011,</b>		5
21	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
20	A RSSI-based technique for inter-distance computation in Multi-Robot Systems <b>2010,</b>		3
19	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
18	A spatially structured genetic algorithm for multi-robot localization. <i>Intelligent Service Robotics</i> , <b>2009</b> , 2, 31-40	2.6	12
17	An Interlaced Extended Kalman Filter for sensor networks localisation. <i>International Journal of Sensor Networks</i> , <b>2009</b> , 5, 164	0.8	21
16	A distributed extended information filter for Self-Localization in Sensor Networks <b>2008,</b>		4
15	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
14	A Hybrid Active Global Localisation Algorithm for Mobile Robots. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,		12
13	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
12	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		
11	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		
10	<b>2007,</b>		12
9	Multirobot Localisation Using Interlaced Extended Kalman Filter <b>2006,</b>		24
8	<b>2006,</b>		3
7	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

6	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
5	Interlaced extended Kalman filter for real time navigation <b>2005</b> ,		1
4	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
3	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
2	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
1	Distributed Multi-Robot Localization 391-406		