

# Federica Pascucci

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6331967/publications.pdf>

Version: 2024-02-01

82  
papers

1,184  
citations

566801

15  
h-index

580395

25  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Multi-Robot Localization. , 0, , 391-406.		233
2	An outdoor navigation system using GPS and inertial platform. IEEE/ASME Transactions on Mechatronics, 2002, 7, 134-142.	3.7	155
3	An Indoor and Outdoor Navigation System for Visually Impaired People. IEEE Access, 2019, 7, 170406-170418.	2.6	42
4	Multirobot Localisation Using Interlaced Extended Kalman Filter. , 2006, , .		40
5	Sensor Networks Localization: Extending Trilateration via Shadow Edges. IEEE Transactions on Automatic Control, 2015, 60, 2752-2755.	3.6	40
6	Monitoring system reaction in cyber-physical testbed under cyber-attacks. Computers and Electrical Engineering, 2017, 59, 86-98.	3.0	37
7	An Interlaced Extended Information Filter for Self-Localization in Sensor Networks. IEEE Transactions on Mobile Computing, 2010, 9, 1491-1504.	3.9	34
8	An enhanced indoor positioning system for first responders. , 2013, , .		31
9	Finding critical nodes in infrastructure networks. International Journal of Critical Infrastructure Protection, 2018, 20, 3-15.	2.9	27
10	An Interlaced Extended Kalman Filter for sensor networks localisation. International Journal of Sensor Networks, 2009, 5, 164.	0.2	26
11	Fault Diagnosis and Network Anomaly Detection in Water Infrastructures. IEEE Design and Test, 2017, 34, 44-51.	1.1	26
12	Integrated protection of industrial control systems from cyber-attacks: the ATENA approach. International Journal of Critical Infrastructure Protection, 2018, 21, 72-82.	2.9	26
13	A joint routing and localization algorithm for emergency scenario. Ad Hoc Networks, 2014, 13, 19-33.	3.4	24
14	Covert Channels-Based Stealth Attacks in Industry 4.0. IEEE Systems Journal, 2019, 13, 3980-3988.	2.9	24
15	Network Structural Vulnerability: A Multiobjective Attacker Perspective. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2036-2049.	5.9	23
16	Characterization of Protein-Protein Interfaces through a Protein Contact Network Approach. Frontiers in Bioengineering and Biotechnology, 2015, 3, 170.	2.0	20
17	Hybrid Indoor Positioning System for First Responders. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 468-479.	5.9	20
18	Sensor network localisation using distributed extended Kalman filter. , 2007, , .		19

#	ARTICLE	IF	CITATIONS
19	Critical node detection based on attacker preferences. , 2016, , .		18
20	A Hybrid Active Global Localisation Algorithm for Mobile Robots. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	16
21	Monte Carlo Filter in Mobile Robotics Localization: A Clustered Evolutionary Point of View. Journal of Intelligent and Robotic Systems: Theory and Applications, 2006, 47, 155-174.	2.0	15
22	A spatially structured genetic algorithm for multi-robot localization. Intelligent Service Robotics, 2009, 2, 31-40.	1.6	15
23	3D pedestrian dead reckoning and activity classification using waist-mounted inertial measurement unit. , 2015, , .		14
24	MimePot: a Model-based Honeypot for Industrial Control Networks. , 2019, , .		14
25	A Spatially Structured Genetic Algorithm over Complex Networks for Mobile Robot Localisation. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	11
26	Indoor positioning system using walking pattern classification. , 2014, , .		11
27	Decentralized Route Guidance Architectures with User Preferences in Urban Transportation Networks. Procedia, Social and Behavioral Sciences, 2014, 111, 1054-1062.	0.5	11
28	Communications network analysis in a SCADA system testbed under cyber-attacks. , 2015, , .		11
29	Simultaneous Localization and Routing in Sensor Networks using Shadow Edges. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 199-204.	0.4	9
30	Network localization by Shadow Edges. , 2013, , .		9
31	Exploiting routing information in Wireless Sensor Networks localization. , 2013, , .		8
32	A REference implementation of interoperable indoor location & communication systems for First REsponders: The REFIRE project. , 2012, , .		7
33	A low cost smart glove for visually impaired people mobility. , 2015, , .		7
34	C-IPS: A smartphone based Indoor Positioning System. , 2016, , .		7
35	A testbed for integrated fault diagnosis and cyber security investigation. , 2016, , .		7
36	Improved PDR Localization via UWB-Anchor Based on-Line Calibration. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
37	Simultaneous localisation and mapping of a mobile robot via interlaced extended Kalman filter. International Journal of Modelling, Identification and Control, 2008, 4, 68.	0.2	6
38	An Indoor localization Framework for Hybrid Rescue Teams. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4765-4770.	0.4	6
39	Hybrid sensor networks localization dealing with range-capable and range-free nodes. , 2014, , .		6
40	Hybrid map building for personal indoor navigation systems. , 2014, , .		6
41	A Multiple-Criteria Decision Making method as support for critical infrastructure protection and Intrusion Detection System. , 2016, , .		6
42	Performance Analysis of Single and Multi-objective Approaches for the Critical Node Detection Problem. Springer Proceedings in Mathematics and Statistics, 2017, , 315-324.	0.1	6
43	On the Use of Fibonacci Sequences for Detecting Injection Attacks in Cyber Physical Systems. IEEE Access, 2021, 9, 41787-41798.	2.6	6
44	GENETIC APPROACH FOR A LOCALISATION PROBLEM BASED UPON PARTICLE FILTERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 272-277.	0.4	5
45	A distributed extended information filter for Self-Localization in Sensor Networks. , 2008, , .		5
46	An adaptive localization system for first responders. , 2011, , .		5
47	Assessing protein resilience via a complex network approach. , 2013, , .		5
48	Situation awareness in critical infrastructures. International Journal of Simulation and Process Modelling, 2014, 9, 92.	0.1	5
49	Decentralized Assignment for Intelligent Electric Vehicles to Recharge Stations. , 2014, , .		5
50	A Novel Architecture for Cyber-Physical Security in Industrial Control Networks. , 2018, , .		5
51	Distributed Cooperative Localization. Journal of Information Technology Research, 2013, 6, 49-67.	0.3	5
52	SIMULTANEOUS LOCALIZATION AND MAP BUILDING ALGORITHM FOR REAL-TIME APPLICATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 457-462.	0.4	4
53	Pose recovery for a mobile manipulator using a particle filter. , 2006, , .		4
54	A RSSI-based technique for inter-distance computation in Multi-Robot Systems. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
55	Detecting Integrity Attacks in IoT-based Cyber Physical Systems: a Case Study on Hydra Testbed. , 2018, , .		4
56	Exploiting System Model for Securing CPS: the Anomaly Based IDS Perspective. , 2018, , .		4
57	Securing connection between IT and OT: the Fog Intrusion Detection System prospective. , 2019, , .		4
58	Probabilistic localization in sensor networks using distributed Kalman Filter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 366-371.	0.4	3
59	Augmenting white cane reliability using smart glove for visually impaired people. , 2015, 2015, 8046-9.		3
60	Localization of networks with presence and distance constraints based on 1-hop and 2-hop massâ€“spring optimization. ICT Express, 2016, 2, 19-22.	3.3	3
61	Interlaced extended Kalman filter for real time navigation. , 2005, , .		2
62	On field gesture-based human-robot interface for emergency responders. , 2013, , .		2
63	Path planning for marine fleet using heuristic approach. International Journal of System of Systems Engineering, 2013, 4, 261.	0.4	2
64	Algorithms and Tools for Risk/Impact Evaluation in Critical Infrastructures. Studies in Computational Intelligence, 2015, , 227-238.	0.7	2
65	Noisy localization over unit disk graphs: The shadow edge approach. , 2015, , .		2
66	Critical Infrastructure Online Fault Detection: Application in Water Supply Systems. Lecture Notes in Computer Science, 2016, , 94-106.	1.0	2
67	Securing cyber physical systems from injection attacks by exploiting random sequences. , 2017, , .		2
68	Supporting Autonomous Navigation of Visually Impaired People for Experiencing Cultural Heritage. Studies in Computational Intelligence, 2020, , 25-46.	0.7	2
69	A REAL-TIME ARCHITECTURE FOR LOW-COST VISION BASED ROBOTS NAVIGATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 479-484.	0.4	1
70	PDR and GPS trajectory parts matching for an improved self-contained personal navigation solution with handheld device. , 2017, , .		1
71	Improving Security in Industrial Internet of Things: A Distributed Intrusion Detection Methodology. Advanced Sciences and Technologies for Security Applications, 2019, , 161-179.	0.4	1
72	An opacity approach for security exposure of IoT components in critical infrastructures. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
73	Railways Augmented Multisensor Positioning System. , 0, , .		1
74	SENECAN: Secure KEy DistributiON OvEr CAN Through Watermarking and Jamming. IEEE Transactions on Dependable and Secure Computing, 2022, , 1-1.	3.7	1
75	AN INTEGRATED FRAMEWORK FOR SIMULTANEOUS ROBOT AND SENSOR NETWORK LOCALIZATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 131-136.	0.4	0
76	SENSOR NETWORKS LOCALISATION AND TRACKING VIA CONSENSUS UPDATE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 137-142.	0.4	0
77	A simultaneous routing and localization algorithm for wireless sensor networks in emergency scenario. , 2011, , .		0
78	Augmenting rescuer safety using wireless sensor networks. , 2015, , .		0
79	How to Perform Verification and Validation of Critical Infrastructure Modeling Tools. Lecture Notes in Computer Science, 2013, , 116-127.	1.0	0
80	Distributed Multi-Robot Localization. Advances in Computational Intelligence and Robotics Book Series, 2013, , 1-18.	0.4	0
81	Distributed Cooperative Localization. , 2019, , 469-490.		0
82	The Smart Extension approach for securing industrial control systems. IFAC-PapersOnLine, 2020, 53, 11207-11212.	0.5	0