

# Edoardo Patti

## List of Publications by Year in descending order

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79  
papers

1,564  
citations

361413

20  
h-index

395702

33  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Cost Analysis and Data-Driven Predictive Modeling of Cloud-Based Online-NILM Algorithm. IEEE Transactions on Cloud Computing, 2022, 10, 2409-2423.	4.4	12
2	In-Situ Defect Detection of Metal Additive Manufacturing: An Integrated Framework. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 74-86.	4.6	18
3	IoT-Enabled Real-Time Management of Smart Grids With Demand Response Aggregators. IEEE Transactions on Industry Applications, 2022, 58, 102-112.	4.9	11
4	A Smart Meter Infrastructure for Smart Grid IoT Applications. IEEE Internet of Things Journal, 2022, 9, 12529-12541.	8.7	36
5	A User-Centric View of a Demand Side Management Program: From Surveys to Simulation and Analysis. IEEE Systems Journal, 2022, 16, 1885-1896.	4.6	5
6	Stability and Accuracy Analysis of a Distributed Digital Real-Time Cosimulation Infrastructure. IEEE Transactions on Industry Applications, 2022, 58, 3193-3204.	4.9	9
7	Engaging Users in Resource Ecosystem Building for Local Heritage-Led Knowledge. Sustainability, 2022, 14, 4575.	3.2	3
8	Effectiveness of neural networks and transfer learning for indoor air-temperature forecasting. Automation in Construction, 2022, 140, 104314.	9.8	9
9	Anomaly detection on household appliances based on variational autoencoders. Sustainable Energy, Grids and Networks, 2022, 32, 100823.	3.9	6
10	Low-Overhead Adaptive Brightness Scaling for Energy Reduction in OLED Displays. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1625-1636.	4.6	7
11	A Microservices-Based Framework for Smart Design and Optimization of PV Installations. IEEE Transactions on Sustainable Computing, 2021, 6, 531-543.	3.1	1
12	Supporting Telecommunication Alarm Management System With Trouble Ticket Prediction. IEEE Transactions on Industrial Informatics, 2021, 17, 1459-1469.	11.3	9
13	Comparative Analysis of Neural Networks Techniques to Forecast Global Horizontal Irradiance. IEEE Access, 2021, 9, 122829-122846.	4.2	8
14	Combining BIM, GIS, and IoT to Foster Energy Management and Simulation in Smart Cities. Advances in Civil and Industrial Engineering Book Series, 2021, , 425-447.	0.2	0
15	Manufacturing as a Data-Driven Practice: Methodologies, Technologies, and Tools. Proceedings of the IEEE, 2021, 109, 399-422.	21.3	24
16	Peak shaving in district heating exploiting reinforcement learning and agent-based modelling. Engineering Applications of Artificial Intelligence, 2021, 102, 104235.	8.1	13
17	A compound of feature selection techniques to improve solar radiation forecasting. Expert Systems With Applications, 2021, 178, 114979.	7.6	45
18	A Distributed Multimodel Platform to Cosimulate Multienergy Systems in Smart Buildings. IEEE Transactions on Industry Applications, 2021, 57, 4428-4440.	4.9	11

#	ARTICLE	IF	CITATIONS
19	Solar radiation forecasting based on convolutional neural network and ensemble learning. Expert Systems With Applications, 2021, 181, 115167.	7.6	55
20	A Win-Win Algorithm for Learning the Flexibility of Aggregated Residential Appliances. IEEE Access, 2021, 9, 150495-150507.	4.2	2
21	Load Profiles Clustering and Knowledge Extraction to Assess Actual Usage of Telecommunication Sites. , 2021, , .		2
22	An Hybrid Model-Free Reinforcement Learning Approach for HVAC Control. , 2021, , .		0
23	Stability and Accuracy Analysis of a Real-time Co-simulation Infrastructure. , 2021, , .		2
24	A Distributed Platform for Multi-modelling Co-simulations of Smart Building Energy Behaviour. , 2020, , .		3
25	Real-Time Control of Power Exchange at Primary Substations: An OPF-Based Solution. , 2020, , .		3
26	A win-win algorithm for aggregated residential energy management: resource optimisation and user acceptance learning. , 2020, , .		5
27	GAMES: A General-Purpose Architectural Model for Multi-energy System Engineering Applications. , 2020, , .		3
28	A Distributed Multimodel Cosimulation Platform to Assess General Purpose Services in Smart Grids. IEEE Transactions on Industry Applications, 2020, 56, 5613-5624.	4.9	11
29	An Online Grey-Box Model Based on Unscented Kalman Filter to Predict Temperature Profiles in Smart Buildings. Energies, 2020, 13, 2097.	3.1	6
30	Data Driven Patient-Specialized Neural Networks for Blood Glucose Prediction. , 2020, , .		6
31	A Comparison Analysis of BLE-Based Algorithms for Localization in Industrial Environments. Electronics (Switzerland), 2020, 9, 44.	3.1	20
32	A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. Electronics (Switzerland), 2019, 8, 979.	3.1	26
33	A Distributed Software Solution for Demand Side Management with Consumer Habits Prediction. , 2019, , .		1
34	A Grey-box Model Based on Unscented Kalman Filter to Estimate Thermal Dynamics in Buildings. , 2019, , .		9
35	Forecasting Heating Consumption in Buildings: A Scalable Full-Stack Distributed Engine. Electronics (Switzerland), 2019, 8, 491.	3.1	7
36	A Multi-Patient Data-Driven Approach to Blood Glucose Prediction. IEEE Access, 2019, 7, 69311-69325.	4.2	78

#	ARTICLE	IF	CITATIONS
37	Planning and real-time management of smart grids with high PV penetration in Italy. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2019, 172, 272-282.	0.7	5
38	A SGAM-Based Test Platform to Develop a Scheme for Wide Area Measurement-Free Monitoring of Smart Grids under High PV Penetration. Energies, 2019, 12, 1417.	3.1	12
39	Battery-Aware Operation Range Estimation for Terrestrial and Aerial Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 5471-5482.	6.3	42
40	A Distributed IoT Infrastructure to Test and Deploy Real-Time Demand Response in Smart Grids. IEEE Internet of Things Journal, 2019, 6, 1136-1146.	8.7	61
41	Realistic Multi-Scale Modeling of Household Electricity Behaviors. IEEE Access, 2019, 7, 2467-2489.	4.2	26
42	Design and Accuracy Analysis of Multilevel State Estimation Based on Smart Metering Infrastructure. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4300-4312.	4.7	43
43	A Cloud-Based On-Line Disaggregation Algorithm for Home Appliance Loads. IEEE Transactions on Smart Grid, 2019, 10, 3430-3439.	9.0	71
44	BIM and Interoperability for Cultural Heritage Through ICT. , 2019, , 93-111.		0
45	IoT Platforms and Technologies Driving Spatial Planning and Analytics. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 84-112.	0.4	0
46	A cloud-based smart metering infrastructure for distribution grid services and automation. Sustainable Energy, Grids and Networks, 2018, 15, 14-25.	3.9	79
47	GIS-Based Software Infrastructure to Model PV Generation in Fine-Grained Spatio-Temporal Domain. IEEE Systems Journal, 2018, 12, 2832-2841.	4.6	32
48	Indoor Air-Temperature Forecast for Energy-Efficient Management in Smart Buildings. , 2018, , .		7
49	Fault Detection, Isolation and Restoration Test Platform Based on Smart Grid Architecture Model Using Internet-of-Things Approaches. , 2018, , .		9
50	A Novel Internet-of-Things Infrastructure to Support Self-Healing Distribution Systems. , 2018, , .		2
51	IoT Software Infrastructure for Remote Monitoring of Patients with Chronic Metabolic Disorders. , 2018, , .		5
52	A Compact PV Panel Model for Cyber-Physical Systems in Smart Cities. , 2018, , .		8
53	GIS-based optimal photovoltaic panel floorplanning for residential installations. , 2018, , .		11
54	Forecasting Short-term Solar Radiation for Photovoltaic Energy Predictions. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
55	IMPLEMENTING AIR-POLLUTION AND HEALTH-DAMAGE COSTS IN URBAN MULTI-ENERGY SYSTEMS MODELLING. WIT Transactions on Ecology and the Environment, 2018, , .	0.0	0
56	A Flexible Distributed Infrastructure for Real-Time Cosimulations in Smart Grids. IEEE Transactions on Industrial Informatics, 2017, 13, 3265-3274.	11.3	31
57	Information Modeling for Virtual and Augmented Reality. IT Professional, 2017, 19, 52-60.	1.5	19
58	A Novel Integrated Real-time Simulation Platform for Assessing Photovoltaic Penetration Impacts in Smart Grids. Energy Procedia, 2017, 111, 780-789.	1.8	20
59	IoT Software Infrastructure for Energy Management and Simulation in Smart Cities. IEEE Transactions on Industrial Informatics, 2017, 13, 832-840.	11.3	121
60	A Participatory Design Approach for Energy-aware Mobile App for Smart Home Monitoring. , 2017, , .		4
61	An IoT realization in an interdepartmental real time simulation lab for distribution system control and management studies. , 2016, , .		11
62	Emerging smart meters in electrical distribution systems: Opportunities and challenges. , 2016, , .		30
63	Towards an ontology driven approach for systems interoperability and energy management in the smart city. , 2016, , .		14
64	Low voltage system state estimation based on smart metering infrastructure. , 2016, , .		23
65	IoT platform for Smart Cities: Requirements and implementation case studies. , 2016, , .		29
66	Distributed Software Infrastructure for General Purpose Services in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1156-1163.	9.0	42
67	Lighting Control and Monitoring for Energy Efficiency: A Case Study Focused on the Interoperability of Building Management Systems. IEEE Transactions on Industry Applications, 2016, 52, 2627-2637.	4.9	53
68	Event-Driven User-Centric Middleware for Energy-Efficient Buildings and Public Spaces. IEEE Systems Journal, 2016, 10, 1137-1146.	4.6	40
69	District Information Modeling and Energy Management. IT Professional, 2015, 17, 28-34.	1.5	8
70	The Energy Efficiency Management at Urban Scale by Means of Integrated Modelling. Energy Procedia, 2015, 83, 258-268.	1.8	15
71	Designing a Smart City Internet of Things Platform with Microservice Architecture. , 2015, , .		154
72	Lighting control and monitoring for energy efficiency: A case study focused on the interoperability of building management systems. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
73	Web and Cloud Management for Building Energy Reduction. , 2015, , 1557-1572.		1
74	BIM and Interoperability for Cultural Heritage through ICT. Advances in Geospatial Technologies Book Series, 2015, , 274-291.	0.2	5
75	Design and implementation of a multi-standard event-driven energy management system for smart buildings. , 2014, , .		3
76	Towards a Software Infrastructure for District Energy Management. , 2014, , .		4
77	Web and Cloud Management for Building Energy Reduction. Advances in Web Technologies and Engineering Book Series, 2014, , 340-355.	0.4	0
78	Energy saving in existing buildings by an intelligent use of interoperable ICTs. Energy Efficiency, 2013, 6, 707-723.	2.8	17
79	Enable sensor networks interoperability in smart public spaces through a service oriented approach. , 2013, , .		21