# 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 | Designing a Smart City Internet of Things Platform with Microservice Architecture. , 2015, , . | | 154 |
| 2 | IoT Software Infrastructure for Energy Management and Simulation in Smart Cities. IEEE Transactions on Industrial Informatics, 2017, 13, 832-840. | 11.3 | 121 |
| 3 | A cloud-based smart metering infrastructure for distribution grid services and automation. Sustainable Energy, Grids and Networks, 2018, 15, 14-25. | 3.9 | 79 |
| 4 | A Multi-Patient Data-Driven Approach to Blood Glucose Prediction. IEEE Access, 2019, 7, 69311-69325. | 4.2 | 78 |
| 5 | A Cloud-Based On-Line Disaggregation Algorithm for Home Appliance Loads. IEEE Transactions on Smart Grid, 2019, 10, 3430-3439. | 9.0 | 71 |
| 6 | 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 |
| 7 | Solar radiation forecasting based on convolutional neural network and ensemble learning. Expert Systems With Applications, 2021, 181, 115167. | 7.6 | 55 |
| 8 | 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 |
| 9 | A compound of feature selection techniques to improve solar radiation forecasting. Expert Systems With Applications, 2021, 178, 114979. | 7.6 | 45 |
| 10 | 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 |
| 11 | Distributed Software Infrastructure for General Purpose Services in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1156-1163. | 9.0 | 42 |
| 12 | Battery-Aware Operation Range Estimation for Terrestrial and Aerial Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 5471-5482. | 6.3 | 42 |
| 13 | Event-Driven User-Centric Middleware for Energy-Efficient Buildings and Public Spaces. IEEE Systems Journal, 2016, 10, 1137-1146. | 4.6 | 40 |
| 14 | A Smart Meter Infrastructure for Smart Grid IoT Applications. IEEE Internet of Things Journal, 2022, 9, 12529-12541. | 8.7 | 36 |
| 15 | GIS-Based Software Infrastructure to Model PV Generation in Fine-Grained Spatio-Temporal Domain. IEEE Systems Journal, 2018, 12, 2832-2841. | 4.6 | 32 |
| 16 | A Flexible Distributed Infrastructure for Real-Time Cosimulations in Smart Grids. IEEE Transactions on Industrial Informatics, 2017, 13, 3265-3274. | 11.3 | 31 |
| 17 | Emerging smart meters in electrical distribution systems: Opportunities and challenges. , 2016, , . | | 30 |
| 18 | IoT platform for Smart Cities: Requirements and implementation case studies. , 2016, , . | | 29 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. Electronics (Switzerland), 2019, 8, 979. | 3.1 | 26 |
| 20 | Realistic Multi-Scale Modeling of Household Electricity Behaviors. IEEE Access, 2019, 7, 2467-2489. | 4.2 | 26 |
| 21 | Manufacturing as a Data-Driven Practice: Methodologies, Technologies, and Tools. Proceedings of the IEEE, 2021, 109, 399-422. | 21.3 | 24 |
| 22 | Low voltage system state estimation based on smart metering infrastructure. , 2016, , . | | 23 |
| 23 | Enable sensor networks interoperability in smart public spaces through a service oriented approach. , 2013, , . | | 21 |
| 24 | A Novel Integrated Real-time Simulation Platform for Assessing Photovoltaic Penetration Impacts in Smart Grids. Energy Procedia, 2017, 111, 780-789. | 1.8 | 20 |
| 25 | A Comparison Analysis of BLE-Based Algorithms for Localization in Industrial Environments. Electronics (Switzerland), 2020, 9, 44. | 3.1 | 20 |
| 26 | Information Modeling for Virtual and Augmented Reality. IT Professional, 2017, 19, 52-60. | 1.5 | 19 |
| 27 | 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 |
| 28 | Energy saving in existing buildings by an intelligent use of interoperable ICTs. Energy Efficiency, 2013, 6, 707-723. | 2.8 | 17 |
| 29 | The Energy Efficiency Management at Urban Scale by Means of Integrated Modelling. Energy Procedia, 2015, 83, 258-268. | 1.8 | 15 |
| 30 | Towards an ontology driven approach for systems interoperability and energy management in the smart city. , 2016, , . | | 14 |
| 31 | Peak shaving in district heating exploiting reinforcement learning and agent-based modelling. Engineering Applications of Artificial Intelligence, 2021, 102, 104235. | 8.1 | 13 |
| 32 | 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 |
| 33 | 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 |
| 34 | An IoT realization in an interdepartmental real time simulation lab for distribution system control and management studies. , 2016, , . | | 11 |
| 35 | GIS-based optimal photovoltaic panel floorplanning for residential installations. , 2018, , . | | 11 |
| 36 | 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 |

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|---|---------|-----|-----------|
| 37 | A Distributed Multimodel Platform to Cosimulate Multienergy Systems in Smart Buildings. IEEE Transactions on Industry Applications, 2021, 57, 4428-4440. | 4.9 | 11 |
| 38 | IoT-Enabled Real-Time Management of Smart Grids With Demand Response Aggregators. IEEE Transactions on Industry Applications, 2022, 58, 102-112. | 4.9 | 11 |
| 39 | Fault Detection, Isolation and Restoration Test Platform Based on Smart Grid Architecture Model Using Intenet-of-Things Approaches. , 2018, , . | | 9 |
| 40 | A Grey-box Model Based on Unscented Kalman Filter to Estimate Thermal Dynamics in Buildings. , 2019, , . | | 9 |
| 41 | Supporting Telecommunication Alarm Management System With Trouble Ticket Prediction. IEEE Transactions on Industrial Informatics, 2021, 17, 1459-1469. | 11.3 | 9 |
| 42 | Stability and Accuracy Analysis of a Distributed Digital Real-Time Cosimulation Infrastructure. IEEE Transactions on Industry Applications, 2022, 58, 3193-3204. | 4.9 | 9 |
| 43 | Effectiveness of neural networks and transfer learning for indoor air-temperature forecasting. Automation in Construction, 2022, 140, 104314. | 9.8 | 9 |
| 44 | District Information Modeling and Energy Management. IT Professional, 2015, 17, 28-34. | 1.5 | 8 |
| 45 | A Compact PV Panel Model for Cyber-Physical Systems in Smart Cities. , 2018, , . | | 8 |
| 46 | Comparative Analysis of Neural Networks Techniques to Forecast Global Horizontal Irradiance. IEEE Access, 2021, 9, 122829-122846. | 4.2 | 8 |
| 47 | Forecasting Short-term Solar Radiation for Photovoltaic Energy Predictions. , 2018, , . | | 8 |
| 48 | Indoor Air-Temperature Forecast for Energy-Efficient Management in Smart Buildings. , 2018, , . | | 7 |
| 49 | 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 |
| 50 | Forecasting Heating Consumption in Buildings: A Scalable Full-Stack Distributed Engine. Electronics (Switzerland), 2019, 8, 491. | 3.1 | 7 |
| 51 | Lighting control and monitoring for energy efficiency: A case study focused on the interoperability of building management systems. , 2015, , . | | 6 |
| 52 | An Online Grey-Box Model Based on Unscented Kalman Filter to Predict Temperature Profiles in Smart Buildings. Energies, 2020, 13, 2097. | 3.1 | 6 |
| 53 | Data Driven Patient-Specialized Neural Networks for Blood Glucose Prediction. , 2020, , . | | 6 |
| 54 | Anomaly detection on household appliances based on variational autoencoders. Sustainable Energy, Grids and Networks, 2022, 32, 100823. | 3.9 | 6 |

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|---|---------|----|-----------|
| 55 | IoT Software Infrastructure for Remote Monitoring of Patients with Chronic Metabolic Disorders. , 2018, , . | | 5 |
| 56 | 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 |
| 57 | A win-win algorithm for aggregated residential energy management: resource optimisation and user acceptance learning. , 2020, , . | | 5 |
| 58 | BIM and Interoperability for Cultural Heritage through ICT. Advances in Geospatial Technologies Book Series, 2015, , 274-291. | 0.2 | 5 |
| 59 | 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 |
| 60 | Towards a Software Infrastructure for District Energy Management. , 2014, , . | | 4 |
| 61 | A Participatory Design Approach for Energy-aware Mobile App for Smart Home Monitoring. , 2017, , . | | 4 |
| 62 | Design and implementation of a multi-standard event-driven energy management system for smart buildings. , 2014, , . | | 3 |
| 63 | A Distributed Platform for Multi-modelling Co-simulations of Smart Building Energy Behaviour. , 2020, , . | | 3 |
| 64 | Real-Time Control of Power Exchange at Primary Substations: An OPF-Based Solution. , 2020, , . | | 3 |
| 65 | GAMES: A General-Purpose Architectural Model for Multi-energy System Engineering Applications. , 2020, , . | | 3 |
| 66 | Engaging Users in Resource Ecosystem Building for Local Heritage-Led Knowledge. Sustainability, 2022, 14, 4575. | 3.2 | 3 |
| 67 | A Novel Internet-of-Things Infrastructure to Support Self-Healing Distribution Systems. , 2018, , . | | 2 |
| 68 | A Win-Win Algorithm for Learning the Flexibility of Aggregated Residential Appliances. IEEE Access, 2021, 9, 150495-150507. | 4.2 | 2 |
| 69 | Load Profiles Clustering and Knowledge Extraction to Assess Actual Usage of Telecommunication Sites. , 2021, , . | | 2 |
| 70 | Stability and Accuracy Analysis of a Real-time Co-simulation Infrastructure. , 2021, , . | | 2 |
| 71 | A Distributed Software Solution for Demand Side Management with Consumer Habits Prediction. , 2019, , . | | 1 |
| 72 | A Microservices-Based Framework for Smart Design and Optimization of PV Installations. IEEE Transactions on Sustainable Computing, 2021, 6, 531-543. | 3.1 | 1 |

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|---|---------|----|-----------|
| 73 | Web and Cloud Management for Building Energy Reduction. , 2015, , 1557-1572. | | 1 |
| 74 | 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 |
| 75 | Web and Cloud Management for Building Energy Reduction. Advances in Web Technologies and Engineering Book Series, 2014, , 340-355. | 0.4 | 0 |
| 76 | IMPLEMENTING AIR-POLLUTION AND HEALTH-DAMAGE COSTS IN URBAN MULTI-ENERGY SYSTEMS MODELLING. WIT Transactions on Ecology and the Environment, 2018, , . | 0.0 | 0 |
| 77 | BIM and Interoperability for Cultural Heritage Through ICT. , 2019, , 93-111. | | 0 |
| 78 | IoT Platforms and Technologies Driving Spatial Planning and Analytics. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 84-112. | 0.4 | 0 |
| 79 | An Hybrid Model-Free Reinforcement Learning Approach for HVAC Control. , 2021, , . | | 0 |