

# Aggelos S Bouhouras

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6702878/publications.pdf>

Version: 2024-02-01

49  
papers

603  
citations

759233

12  
h-index

752698

20  
g-index

49  
all docs

49  
docs citations

49  
times ranked

535  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A NILM algorithm with enhanced disaggregation scheme under harmonic current vectors. Energy and Buildings, 2019, 183, 392-407.  | 6.7 | 70        |
| 2  | Selective Automation Upgrade in Distribution Networks Towards a Smarter Grid. IEEE Transactions on Smart Grid, 2010, 1, 278-285.  | 9.0 | 53        |
| 3  | Harmonic impact of small photovoltaic systems connected to the LV distribution network. , 2008, , .   |     | 49        |
| 4  | Optimal active and reactive nodal power requirements towards loss minimization under reverse power flow constraint defining DG type. International Journal of Electrical Power and Energy Systems, 2016, 78, 445-454. | 5.5 | 43        |
| 5  | Influence of load alterations to optimal network configuration for loss reduction. Electric Power Systems Research, 2012, 86, 17-27.  | 3.6 | 40        |
| 6  | Cost/worth assessment of reliability improvement in distribution networks by means of artificial intelligence. International Journal of Electrical Power and Energy Systems, 2010, 32, 530-538.                       | 5.5 | 36        |
| 7  | Impact of reverse power flow on the optimal distributed generation placement problem. IET Generation, Transmission and Distribution, 2017, 11, 4626-4632.   | 2.5 | 36        |
| 8  | Development of distinct load signatures for higher efficiency of NILM algorithms. Electric Power Systems Research, 2014, 117, 163-171.  | 3.6 | 32        |
| 9  | Load variations impact on optimal DG placement problem concerning energy loss reduction. Electric Power Systems Research, 2017, 152, 36-47.   | 3.6 | 29        |
| 10 | Load Signature Formulation for Non-Intrusive Load Monitoring Based on Current Measurements. Energies, 2017, 10, 538.  | 3.1 | 28        |
| 11 | Installation of PV systems in Greece – Reliability improvement in the transmission and distribution system. Electric Power Systems Research, 2010, 80, 547-555.   | 3.6 | 27        |
| 12 | Impact of penetration schemes to optimal DG placement for loss minimisation. International Journal of Sustainable Energy, 2017, 36, 473-488.  | 2.4 | 15        |
| 13 | Cost-Effective Hybrid PV-Battery Systems in Buildings Under Demand Side Management Application. IEEE Transactions on Industry Applications, 2022, 58, 6519-6528.  | 4.9 | 15        |
| 14 | Optimal Siting of BESS in Distribution Networks under High PV Penetration. , 2018, , .  |     | 10        |
| 15 | Efficient RES Penetration under Optimal Distributed Generation Placement Approach. Energies, 2019, 12, 1250.  | 3.1 | 10        |
| 16 | Distribution network energy loss reduction under <scp>EV</scp> charging schedule. International Journal of Energy Research, 2022, 46, 8256-8270.  | 4.5 | 10        |
| 17 | Enhancing storage integration in buildings with photovoltaics (PV-ESTIA project). , 2018, , .   |     | 9         |
| 18 | PV systems penetration and allocation to an urban distribution network: A power loss reduction approach. , 2009, , .  |     | 8         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Application and evaluation of UPSO to ODGP in radial Distribution Networks. , 2016, , .   |     | 7         |
| 20 | Comparative analysis of heuristic techniques applied to ODGP. , 2017, , .   |     | 7         |
| 21 | A missing data treatment method for photovoltaic installations. , 2018, , .   |     | 6         |
| 22 | A Two-Stage EV Charging Planning and Network Reconfiguration Methodology towards Power Loss Minimization in Low and Medium Voltage Distribution Networks. Energies, 2022, 15, 3808. | 3.1 | 6         |
| 23 | Load signatures enhancement via odd-order harmonic currents. , 2016, , .  |     | 5         |
| 24 | Load signatures development via harmonic current vectors. , 2017, , .   |     | 5         |
| 25 | A Machine Learning Approach for NILM based on Odd Harmonic Current Vectors. , 2019, , .   |     | 5         |
| 26 | Reliability improvement resulting from the integration of PV systems in the Interconnected Greek Transmission System. , 2008, , .   |     | 4         |
| 27 | Unsupervised NILM Implementation Using Odd Harmonic Currents. , 2021, , .   |     | 4         |
| 28 | A Review of the Cryocooler-Based Cooling Systems for SMES. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-13.  | 1.7 | 4         |
| 29 | Feasibility study of the implementation of A.I. automation techniques in modern power distribution networks. Electric Power Systems Research, 2010, 80, 495-505.                    | 3.6 | 3         |
| 30 | Reducing network congestion in distribution networks with high DG penetration via network reconfiguration. , 2014, , .  |     | 3         |
| 31 | Multi-Objective planning tool for the installation of renewable energy resources. IET Generation, Transmission and Distribution, 2015, 9, 1782-1789.                                | 2.5 | 3         |
| 32 | Optimal application order of network reconfiguration and ODGP for loss reduction in distribution networks. , 2017, , .  |     | 3         |
| 33 | A PSO based optimal EVs Charging utilizing BESSs and PVs in buildings. , 2019, , .  |     | 3         |
| 34 | A UPSO based optimal BEVs charging for voltage quality improvement. , 2018, , .   |     | 2         |
| 35 | Optimal siting of BESS in distribution networks under high wind power penetration. , 2018, , .  |     | 2         |
| 36 | Impact of Data-Driven Modelling Approaches on the Analysis of Active Distribution Networks. , 2019, , .   |     | 2         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Enhancing Self-Sufficiency in Buildings with Hybrid PV-Battery Systems and Demand Side Management: A sizing tool. , 2021, , .            |     | 2         |
| 38 | Siting and installation of PV systems in Greece and their contribution in the reliability of the distribution network. , 2008, , .       |     | 1         |
| 39 | Energy loss reduction in Distribution Networks via ODGP. , 2016, , .   |     | 1         |
| 40 | Energy Efficiency in Urban Electrical Grids through Consumer Networking. Series on Computers and Operations Research, 2017, , 32-52.     | 0.2 | 1         |
| 41 | Analysis of high penetration of electric vehicles and photovoltaics on a greek low-voltage network. , 2017, , .                          |     | 1         |
| 42 | Utilizing Short-Term Load Forecasts in the Assessment of Demand Response Programs. , 2019, , .   |     | 1         |
| 43 | Utilizing Harmonics in Sequential and Parallel Disaggregation Schemes. , 2019, , .   |     | 1         |
| 44 | Network Reconfiguration in Modern Power Distribution Networks. Energy Systems, 2020, , 219-255.  | 0.5 | 1         |
| 45 | Optimal Distributed Generation Placement Problem for Power and Energy Loss Minimization. Power Systems, 2018, , 215-251.                 | 0.5 | 0         |
| 46 | Metaheuristics-Based Input Selection for Neural Networks: Application in Short-Term Load Forecasting. , 2019, , .                        |     | 0         |
| 47 | A Clustering Based Methodology for Natural Gas Demand Analysis. , 2019, , .  |     | 0         |
| 48 | A Comparison of Feature Selection Techniques for Neural Network Based Load Forecasting. , 2019, , .                                      |     | 0         |
| 49 | Application of PSO in Distribution Power Systems: Operation and Planning Optimization. Profiles in Operations Research, 2021, , 321-351. | 0.4 | 0         |