

Carlos Henggeler Antunes

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.

200
papers

4,845
citations

37
h-index

63
g-index

231
ext. papers

5,697
ext. citations

5.2
avg, IF

6.23
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 200 | Max-Min Fairness Optimization in Uplink Cell-Free Massive MIMO using Meta-Heuristics. <i>IEEE Transactions on Communications</i> , 2022 , 1-1 | 6.9 | 3 |
| 199 | Collective self-consumption in multi-tenancy buildings: To what extent do consumers' goals influence the energy system's performance?. <i>Sustainable Cities and Society</i> , 2022 , 80, 103688 | 10.1 | 0 |
| 198 | Economic, Environmental and Energy analysis of carbon capture systems coupled in coal power plants for the reduction of CO2 emissions in Brazil. <i>International Journal of Greenhouse Gas Control</i> , 2022 , 114, 103606 | 4.2 | 0 |
| 197 | A review of electric bus vehicles research topics [Methods and trends. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 159, 112211 | 16.2 | 4 |
| 196 | Bi-Objective Power Optimization of Radio Stripe Uplink Communications. <i>Electronics (Switzerland)</i> , 2022 , 11, 876 | 2.6 | |
| 195 | A comprehensive and modular set of appliance operation MILP models for demand response optimization. <i>Applied Energy</i> , 2022 , 320, 119142 | 10.7 | 0 |
| 194 | A Bi-Level Optimization Approach to Define Dynamic Tariffs with Variable Prices and Periods in the Electricity Retail Market. <i>Computational Methods in Applied Sciences (Springer)</i> , 2021 , 1-16 | 0.4 | 1 |
| 193 | Towards inclusive community-based energy markets: A multiagent framework. <i>Applied Energy</i> , 2021 , 307, 118115 | 10.7 | 1 |
| 192 | Multicriteria Decision Support for Sustainable Energy Systems. <i>Multiple Criteria Decision Making</i> , 2021 , 75-91 | 1.4 | |
| 191 | Energy literacy: an overlooked concept to end users' adoption of time-differentiated tariffs. <i>Energy Efficiency</i> , 2021 , 14, 1 | 3 | 3 |
| 190 | Multi-objective benchmark for energy management of dual-source electric vehicles: An optimal control approach. <i>Energy</i> , 2021 , 223, 119857 | 7.9 | 6 |
| 189 | Eco-efficiency in early design decisions: A multimethodology approach. <i>Journal of Cleaner Production</i> , 2021 , 283, 124630 | 10.3 | 18 |
| 188 | A deterministic bounding procedure for the global optimization of a bi-level mixed-integer problem. <i>European Journal of Operational Research</i> , 2021 , 291, 52-66 | 5.6 | 2 |
| 187 | A population-based approach to the bi-level multifollower problem: an application to the electricity retail market. <i>International Transactions in Operational Research</i> , 2021 , 28, 3038-3068 | 2.9 | 4 |
| 186 | Scenario-Based Multi-criteria decision analysis for rapid transit systems implementation in an urban context. <i>ETransportation</i> , 2021 , 7, 100101 | 12.7 | 4 |
| 185 | Assessing the Influence of Different Goals in Energy Communities: Self-Sufficiency: An Optimized Multiagent Approach. <i>Energies</i> , 2021 , 14, 989 | 3.1 | 10 |
| 184 | Business models for energy communities: A review of key issues and trends. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 144, 111013 | 16.2 | 27 |

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|-----|--|------|----|
| 183 | On Phase Shifting and Diversified Coil-Pitch for Enhanced Multiobjective Winding Design Optimization. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2002-2011 | 5.4 | 3 |
| 182 | Component-Level Optimization of Hybrid Excitation Synchronous Machines for a Specified Hybridization Ratio Using NSGA-II. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 1596-1605 | 5.4 | 5 |
| 181 | Bilevel optimization to deal with demand response in power grids: models, methods and challenges. <i>Top</i> , 2020 , 28, 814-842 | 1.3 | 4 |
| 180 | Sizing of a Battery Pack Based on Series/Parallel Configurations for a High-Power Electric Vehicle as a Constrained Optimization Problem. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14150-14159 | 6.8 | 2 |
| 179 | Optimal Energy and Reserve Market Management in Renewable Microgrid-PEVs Parking Lot Systems: V2G, Demand Response and Sustainability Costs. <i>Energies</i> , 2020 , 13, 1884 | 3.1 | 14 |
| 178 | Optimizing Prices and Periods in Time-of-use Electricity Tariff Design Using Bilevel Programming. <i>Lecture Notes in Computer Science</i> , 2020 , 1-17 | 0.9 | 0 |
| 177 | Comparison of Thermal Load Models for MILP-Based Demand Response Planning. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020 , 110-124 | 0.2 | 0 |
| 176 | A Discussion of Mixed Integer Linear Programming Models of Thermostatic Loads in Demand Response. <i>Trends in Mathematics</i> , 2020 , 105-122 | 0.3 | 6 |
| 175 | Energy and behaviour: Challenges of a low-carbon future 2020 , 1-15 | | 1 |
| 174 | The future of power systems: Challenges, trends, and upcoming paradigms. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2020 , 9, e368 | 4.7 | 16 |
| 173 | A study of the inclusion of vulnerable consumers in energy communities with peer-to-peer exchanges 2020 , | | 2 |
| 172 | A multi-agent system approach to exploit demand-side flexibility in an energy community. <i>Utilities Policy</i> , 2020 , 67, 101114 | 3.3 | 9 |
| 171 | Designing time-of-use tariffs in electricity retail markets using a bi-level model [Estimating bounds when the lower level problem cannot be exactly solved. <i>Omega</i> , 2020 , 93, 102027 | 7.2 | 14 |
| 170 | A Comparison of MILP and Metaheuristic Approaches for Implementation of a Home Energy Management System under Dynamic Tariffs 2019 , | | 7 |
| 169 | Energy End-Use Flexibility of the Next Generation of Decision-Makers in a Smart Grid Setting: An Exploratory Study. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2019 , 13-23 | 0.2 | |
| 168 | Multiobjective Optimization in the Energy Sector: Selected Problems and Challenges. <i>Multiple Criteria Decision Making</i> , 2019 , 357-370 | 1.4 | 1 |
| 167 | Stochastic optimization of trigeneration systems for decision-making under long-term uncertainty in energy demands and prices. <i>Energy</i> , 2019 , 175, 781-797 | 7.9 | 15 |
| 166 | Optimizing the management of smart home energy resources under different power cost scenarios. <i>Applied Energy</i> , 2019 , 242, 351-363 | 10.7 | 54 |

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| 165 | Multiobjective Bilevel Programming: Concepts and Perspectives of Development. <i>Multiple Criteria Decision Making</i> , 2019 , 267-293 | 1.4 | 2 |
| 164 | A Hybrid Multiobjective Differential Evolution Approach to Stator Winding Optimization. <i>Lecture Notes in Computer Science</i> , 2019 , 64-71 | 0.9 | 2 |
| 163 | Multiobjective Design Optimization of Generalized Multilayer Multiphase AC Winding. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 2158-2167 | 5.4 | 11 |
| 162 | Residential demand-side flexibility in energy communities: a combination of optimization and agent modeling approaches 2019 , | | 2 |
| 161 | New concepts and an algorithm for multiobjective bilevel programming: optimistic, pessimistic and moderate solutions. <i>Operational Research</i> , 2019 , 1 | 1.6 | 1 |
| 160 | Optimization of PMU Location and Communications in a Power Grid 2019 , | | 1 |
| 159 | A Controllable Bidirectional Battery Charger for Electric Vehicles with Vehicle-to-Grid Capability. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 114-123 | 6.8 | 44 |
| 158 | A Differential Evolution Algorithm to Semivectorial Bilevel Problems. <i>Lecture Notes in Computer Science</i> , 2018 , 172-185 | 0.9 | 2 |
| 157 | A semivectorial bilevel programming approach to optimize electricity dynamic time-of-use retail pricing. <i>Computers and Operations Research</i> , 2018 , 92, 130-144 | 4.6 | 22 |
| 156 | A detailed network model for distribution systems with high penetration of renewable generation sources. <i>Electric Power Systems Research</i> , 2018 , 161, 152-166 | 3.5 | 11 |
| 155 | Integrated Management of Energy Resources in Residential Buildings – A Markovian Approach. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 240-251 | 10.7 | 27 |
| 154 | A multi-criteria approach to sort and rank policies based on Delphi qualitative assessments and ELECTRE TRI: The case of smart grids in Brazil. <i>Omega</i> , 2018 , 76, 100-111 | 7.2 | 33 |
| 153 | Performance evaluation of Portuguese mutual fund portfolios using the value-based DEA method Please note this paper has been re-typeset by Taylor & Francis from the manuscript originally provided to the previous publisher. View all notes. <i>Journal of the Operational Research Society</i> , 2018 , 69, 1628-1639 | 2 | 12 |
| 152 | A Combined Value Focused Thinking-Soft Systems Methodology Approach to Structure Decision Support for Energy Performance Assessment of School Buildings. <i>Sustainability</i> , 2018 , 10, 2295 | 3.6 | 13 |
| 151 | Estimation of renewable energy and built environment-related variables using neural networks – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 94, 959-988 | 16.2 | 28 |
| 150 | Energy Transactions Between Energy Community Members: an Agent-Based Modeling Approach 2018 , | | 3 |
| 149 | A Mixed-integer Linear Programming Model for Optimal Management of Residential Electrical Loads under Dynamic Tariffs 2018 , | | 4 |
| 148 | Optimizing residential energy resources with an improved multi-objective genetic algorithm based on greedy mutations 2018 , | | 1 |

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| 147 | Economic valuation of smart grid investments on electricity markets. <i>Sustainable Energy, Grids and Networks</i> , 2018 , 16, 70-90 | 3.6 | 16 |
| 146 | Public policies for smart grids in Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 92, 501-512 | 16.2 | 15 |
| 145 | Estimating energy savings from behaviours using building performance simulations. <i>Building Research and Information</i> , 2017 , 45, 303-319 | 4.3 | 22 |
| 144 | An approach for energy performance and indoor climate assessment in a Portuguese school building. <i>Sustainable Cities and Society</i> , 2017 , 30, 184-194 | 10.1 | 22 |
| 143 | Energy management systems aggregators: A literature survey. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 73, 1160-1172 | 16.2 | 89 |
| 142 | Clustering of architectural floor plans: A comparison of shape representations. <i>Automation in Construction</i> , 2017 , 80, 48-65 | 9.6 | 7 |
| 141 | An application of a multi-criteria decision support system to assess energy performance of school buildings. <i>Energy Procedia</i> , 2017 , 122, 667-672 | 2.3 | 6 |
| 140 | Bi-level particle swarm optimization and evolutionary algorithm approaches for residential demand response with different user profiles. <i>Information Sciences</i> , 2017 , 418-419, 405-420 | 7.7 | 32 |
| 139 | Stability enhancement of the motor drive DC input voltage of an electric vehicle using on-board hybrid energy storage systems. <i>Applied Energy</i> , 2017 , 205, 244-259 | 10.7 | 20 |
| 138 | A Customized Evolutionary Algorithm for Multiobjective Management of Residential Energy Resources. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 492-501 | 11.9 | 49 |
| 137 | An Evolutionary Algorithm for the Optimization of Residential Energy Resources. <i>Trends in Mathematics</i> , 2017 , 3-16 | 0.3 | 1 |
| 136 | An Integrated Building Energy Management System 2017 , 191-199 | | 1 |
| 135 | Effectiveness of Supercapacitors in Pure Electric Vehicles Using a Hybrid Metaheuristic Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 29-36 | 6.8 | 21 |
| 134 | Economic-energy-environment analysis of prospective sugarcane bioethanol production in Brazil. <i>Applied Energy</i> , 2016 , 181, 514-526 | 10.7 | 36 |
| 133 | An energy management system for residential demand response based on multiobjective optimization 2016 , | | 7 |
| 132 | Coupling input-output analysis with multiobjective linear programming models for the study of economy-energy-environment-social (E3S) trade-offs: a review. <i>Annals of Operations Research</i> , 2016 , 247, 471-502 | 3.2 | 36 |
| 131 | Multi-Objective Optimization and Multi-Criteria Analysis Models and Methods for Problems in the Energy Sector. <i>Profiles in Operations Research</i> , 2016 , 1067-1165 | 1 | 14 |
| 130 | The potential of energy behaviours in a smart(er) grid: Policy implications from a Portuguese exploratory study. <i>Energy Policy</i> , 2016 , 90, 233-245 | 7.2 | 31 |

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| 129 | An application of value-based DEA to identify the best practices in primary health care. <i>OR Spectrum</i> , 2016 , 38, 743-767 | 1.9 | 21 |
| 128 | A multi-objective interactive approach to assess economic-energy-environment trade-offs in Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 1429-1442 | 16.2 | 21 |
| 127 | An overview of electricity prepayment experiences and the Brazilian new regulatory framework. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 704-722 | 16.2 | 18 |
| 126 | A comparison between cost optimality and return on investment for energy retrofit in buildings-A real options perspective. <i>Sustainable Cities and Society</i> , 2016 , 21, 12-25 | 10.1 | 45 |
| 125 | A Guided Tour of iMOLPe. <i>EURO Advanced Tutorials on Operational Research</i> , 2016 , 137-159 | 0.8 | |
| 124 | An Application of Soft Systems Methodology in the Evaluation of Policies and Incentive Actions to Promote Technological Innovations in the Electricity Sector. <i>Energy Procedia</i> , 2016 , 106, 258-278 | 2.3 | 8 |
| 123 | Assessing the robustness of solutions to a multi-objective model of an energy management system aggregator 2016 , | | 1 |
| 122 | An illustration of different concepts of solutions in semivectorial bilevel programming 2016 , | | 4 |
| 121 | Sensor location in water distribution networks to detect contamination events [A multiobjective approach based on NSGA-II 2016 , | | 3 |
| 120 | A Hybrid Genetic Algorithm for the Interaction of Electricity Retailers with Demand Response. <i>Lecture Notes in Computer Science</i> , 2016 , 459-474 | 0.9 | 11 |
| 119 | Multiobjective Linear and Integer Programming. <i>EURO Advanced Tutorials on Operational Research</i> , 2016 , | 0.8 | 18 |
| 118 | Interactive Methods in Multiobjective Linear Programming. <i>EURO Advanced Tutorials on Operational Research</i> , 2016 , 57-136 | 0.8 | |
| 117 | A comparative analysis of meta-heuristic methods for power management of a dual energy storage system for electric vehicles. <i>Energy Conversion and Management</i> , 2015 , 95, 281-296 | 10.6 | 41 |
| 116 | A PSO Approach to Semivectorial Bilevel Programming 2015 , | | 4 |
| 115 | Towards more effective behavioural energy policy: An integrative modelling approach to residential energy consumption in Europe. <i>Energy Research and Social Science</i> , 2015 , 7, 84-98 | 7.7 | 34 |
| 114 | A life cycle multi-objective economic and environmental assessment of distributed generation in buildings. <i>Energy Conversion and Management</i> , 2015 , 97, 420-427 | 10.6 | 17 |
| 113 | A Bi-level Multiobjective PSO Algorithm. <i>Lecture Notes in Computer Science</i> , 2015 , 263-276 | 0.9 | 4 |
| 112 | Evolutionary Multi-Criterion Optimization. <i>Lecture Notes in Computer Science</i> , 2015 , | 0.9 | 2 |

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| 111 | A hybrid input-output multi-objective model to assess economic-energy-environment trade-offs in Brazil. <i>Energy</i> , 2015 , 82, 769-785 | 7.9 | 30 |
| 110 | Evolutionary Multi-Criterion Optimization. <i>Lecture Notes in Computer Science</i> , 2015 , | 0.9 | 5 |
| 109 | Multi-objective Optimization of Sensor Placement to Detect Contamination in Water Distribution Networks 2015 , | | 2 |
| 108 | A MULTI-OBJECTIVE INPUT-OUTPUT MODEL TO ASSESS E4 IMPACTS OF BUILDING RETROFITTING MEASURES TO IMPROVE ENERGY EFFICIENCY. <i>Technological and Economic Development of Economy</i> , 2015 , 21, 483-494 | 4.7 | 11 |
| 107 | Interactive MOLP explorer: A graphical-based computational tool for teaching and decision support in multi-objective linear programming models. <i>Computer Applications in Engineering Education</i> , 2015 , 23, 314-326 | 1.6 | 12 |
| 106 | An outlook of electric vehicle daily use in the framework of an energy management system. <i>Management of Environmental Quality</i> , 2015 , 26, 588-606 | 3.6 | 5 |
| 105 | Integration of the Electric Vehicle as a Manageable Load in a Residential Energy Management System 2015 , | | 5 |
| 104 | A Real-Time Energy Management Architecture for Multisource Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 3223-3233 | 8.9 | 72 |
| 103 | Benchmarking of maintenance and outage repair in an electricity distribution company using the value-based DEA method. <i>Omega</i> , 2015 , 53, 104-114 | 7.2 | 34 |
| 102 | Life-cycle greenhouse gas assessment of Nigerian liquefied natural gas addressing uncertainty. <i>Environmental Science & Technology</i> , 2015 , 49, 3949-57 | 10.3 | 13 |
| 101 | An Energy Management System Aggregator Based on an Integrated Evolutionary and Differential Evolution Approach. <i>Lecture Notes in Computer Science</i> , 2015 , 252-264 | 0.9 | 5 |
| 100 | Integrated Management of Energy Resources in the Residential Sector Using Evolutionary Computation. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2015 , 320-347 | 0.4 | 1 |
| 99 | A Multiobjective Electromagnetism-Like Algorithm with Improved Local Search. <i>CIM Series in Mathematical Sciences</i> , 2015 , 123-144 | 0.8 | |
| 98 | A multi-objective GRASP procedure for reactive power compensation planning. <i>Optimization and Engineering</i> , 2014 , 15, 199-215 | 2.1 | 5 |
| 97 | GIS-based photovoltaic solar farms site selection using ELECTRE-TRI: Evaluating the case for Torre Pacheco, Murcia, Southeast of Spain. <i>Renewable Energy</i> , 2014 , 66, 478-494 | 8.1 | 137 |
| 96 | Multi-objective optimization for building retrofit: A model using genetic algorithm and artificial neural network and an application. <i>Energy and Buildings</i> , 2014 , 81, 444-456 | 7 | 264 |
| 95 | A multi-objective genetic approach to domestic load scheduling in an energy management system. <i>Energy</i> , 2014 , 77, 144-152 | 7.9 | 79 |
| 94 | Uncertainty and robustness in planning and decision-making. <i>International Journal of Systems Science</i> , 2014 , 45, 1-2 | 2.3 | 9 |

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|----|--|------|-----|
| 93 | A hybrid multi-objective GRASP+SA algorithm with incorporation of preferences 2014 , | | 1 |
| 92 | Categorization of residential electricity consumption as a basis for the assessment of the impacts of demand response actions. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 30, 490-503 | 16.2 | 83 |
| 91 | Learning of a single-hidden layer feedforward neural network using an optimized extreme learning machine. <i>Neurocomputing</i> , 2014 , 129, 428-436 | 5.4 | 48 |
| 90 | An enumerative algorithm for computing all possibly optimal solutions to an interval LP. <i>Top</i> , 2014 , 22, 530-542 | 1.3 | 7 |
| 89 | Automatic Clustering Using a Genetic Algorithm with New Solution Encoding and Operators. <i>Lecture Notes in Computer Science</i> , 2014 , 92-103 | 0.9 | 4 |
| 88 | An Improved Multiobjective Electromagnetism-like Mechanism Algorithm. <i>Lecture Notes in Computer Science</i> , 2014 , 627-638 | 0.9 | 1 |
| 87 | Incorporation of Preferences in an Evolutionary Algorithm Using an Outranking Relation 2014 , 66-89 | | |
| 86 | A physically-based model for simulating inverter type air conditioners/heat pumps. <i>Energy</i> , 2013 , 50, 110-119 | 7.9 | 26 |
| 85 | A Simulated Annealing Approach for Optimal Power Source Management in a Small EV. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 867-876 | 8.2 | 42 |
| 84 | Super-efficiency and stability intervals in additive DEA. <i>Journal of the Operational Research Society</i> , 2013 , 64, 86-96 | 2 | 20 |
| 83 | Comparison of a genetic algorithm and simulated annealing for automatic neural network ensemble development. <i>Neurocomputing</i> , 2013 , 121, 498-511 | 5.4 | 42 |
| 82 | Genetically optimized extreme learning machine 2013 , | | 4 |
| 81 | A model for optimal energy planning of a commercial building integrating solar and cogeneration systems. <i>Energy</i> , 2013 , 61, 211-223 | 7.9 | 15 |
| 80 | How many jobs can the RES-E sectors generate in the Portuguese context?. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 21, 444-455 | 16.2 | 30 |
| 79 | A multi-level energy management system for multi-source electric vehicles [An integrated rule-based meta-heuristic approach. <i>Applied Energy</i> , 2013 , 105, 304-318 | 10.7 | 197 |
| 78 | Domestic Load Scheduling Using Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2013 , 142-151 | 0.9 | 15 |
| 77 | A comparative study of different approaches using an outranking relation in a multi-objective evolutionary algorithm. <i>Computers and Operations Research</i> , 2013 , 40, 1602-1615 | 4.6 | 14 |
| 76 | State of the Art on Retrofit Strategies Selection Using Multi-objective Optimization and Genetic Algorithms 2013 , 279-297 | | 1 |

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|----|--|------|-----|
| 75 | A unified energy management strategy for a dual-source electric vehicle 2013 , | | 1 |
| 74 | Comparative Study of Different Energy Management Strategies for Dual-Source Electric Vehicles. <i>World Electric Vehicle Journal</i> , 2013 , 6, 523-531 | 2.5 | 2 |
| 73 | A Dual Mutation Operator to Solve the Multi-objective Production Planning of Perishable Goods. <i>Operations Research/ Computer Science Interfaces Series</i> , 2013 , 77-97 | 0.3 | |
| 72 | Multi-objective optimization for building retrofit strategies: A model and an application. <i>Energy and Buildings</i> , 2012 , 44, 81-87 | 7 | 309 |
| 71 | Energy behaviours as promoters of energy efficiency: A 21st century review. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 4095-4104 | 16.2 | 171 |
| 70 | Domestic load characterization for demand-responsive energy management systems 2012 , | | 8 |
| 69 | NSGA-II with local search for a multi-objective reactive power compensation problem. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 43, 313-324 | 5.1 | 64 |
| 68 | Interactions of economic growth, energy consumption and the environment in the context of the crisis I A study with uncertain data. <i>Energy</i> , 2012 , 48, 415-422 | 7.9 | 27 |
| 67 | Special issue on intelligent technologies for planning and decision making under uncertainty. <i>Intelligent Decision Technologies</i> , 2012 , 6, 243-244 | 0.7 | 1 |
| 66 | Integrated Management of Residential Energy Resources. <i>EPJ Web of Conferences</i> , 2012 , 33, 05005 | 0.3 | 3 |
| 65 | A multi-objective optimization model for building retrofit strategies using TRNSYS simulations, GenOpt and MATLAB. <i>Building and Environment</i> , 2012 , 56, 370-378 | 6.5 | 171 |
| 64 | A genetic algorithm for designing neural network ensembles 2012 , | | 3 |
| 63 | An automated energy management system in a smart grid context 2012 , | | 5 |
| 62 | Dealing with uncertainty in Decision Support Systems: Recent trends (2000-2011). <i>Intelligent Decision Technologies</i> , 2012 , 6, 245-264 | 0.7 | 7 |
| 61 | Incorporation of Preferences in an Evolutionary Algorithm Using an Outranking Relation. <i>International Journal of Natural Computing Research</i> , 2011 , 2, 63-85 | 0.6 | 5 |
| 60 | A web spatial decision support system for vehicle routing using Google Maps. <i>Decision Support Systems</i> , 2011 , 51, 1-9 | 5.6 | 71 |
| 59 | A GIS-based multicriteria spatial decision support system for planning urban infrastructures. <i>Decision Support Systems</i> , 2011 , 51, 720-726 | 5.6 | 105 |
| 58 | Impacts of demand side management and micro-generation units on low voltage distribution radial networks 2011 , | | 3 |

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| 57 | Multi-Objective Lot-Sizing and Scheduling Dealing with Perishability Issues. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3371-3381 | 3.9 | 51 |
| 56 | A multi-objective simulated annealing approach to reactive power compensation. <i>Engineering Optimization</i> , 2011 , 43, 1063-1077 | 2 | 14 |
| 55 | A multi-objective multi-sectoral economy-energy-environment model: Application to Portugal. <i>Energy</i> , 2011 , 36, 2856-2866 | 7.9 | 71 |
| 54 | Adaptive and hybrid genetic approaches for estimating the camera motion from image point correspondences 2011 , | | 3 |
| 53 | Development and Application of Competencies for Graduate Programs in Energy and Sustainability. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2011 , 137, 198-207 | 0.7 | 20 |
| 52 | An Evolutionary Algorithm Guided by Preferences Elicited According to the ELECTRE TRI Method Principles. <i>Lecture Notes in Computer Science</i> , 2010 , 214-225 | 0.9 | 4 |
| 51 | An Evolutionary Algorithm based on an outranking relation for sorting problems 2010 , | | 4 |
| 50 | A study of genetic algorithms for approximating the longest path in generic graphs 2010 , | | 6 |
| 49 | USING SSM FOR STRUCTURING DECISION SUPPORT IN URBAN ENERGY PLANNING / OPERACIN8 SISTEMOS METODOLOGIJOS TAIKYMAS PLANUOJANT MIESTO ENERGETIKĄ <i>Technological and Economic Development of Economy</i> , 2010 , 16, 641-653 | 4.7 | 20 |
| 48 | Improving the responsiveness of NSGA-II using an adaptive mutation operator: a case study. <i>International Journal of Advanced Intelligence Paradigms</i> , 2010 , 2, 4 | 0.5 | 4 |
| 47 | Robustness Analysis in Evolutionary Multi-Objective Optimization Applied to VAR Planning in Electrical Distribution Networks. <i>Lecture Notes in Computer Science</i> , 2009 , 216-227 | 0.9 | 5 |
| 46 | A multi-objective evolutionary algorithm for reactive power compensation in distribution networks. <i>Applied Energy</i> , 2009 , 86, 977-984 | 10.7 | 53 |
| 45 | Assessing the performance of biogas plants with multi-criteria and data envelopment analysis. <i>European Journal of Operational Research</i> , 2009 , 197, 1084-1094 | 5.6 | 97 |
| 44 | Operational research models and methods in the energy sector. <i>European Journal of Operational Research</i> , 2009 , 197, 997-998 | 5.6 | 6 |
| 43 | An interactive method of tackling uncertainty in interval multiple objective linear programming. <i>Journal of Mathematical Sciences</i> , 2009 , 161, 854-866 | 0.4 | 34 |
| 42 | Structuring an MCDA model using SSM: A case study in energy efficiency. <i>European Journal of Operational Research</i> , 2009 , 199, 834-845 | 5.6 | 62 |
| 41 | Physically-based load demand models for assessing electric load control actions 2009 , | | 8 |
| 40 | Improving the Responsiveness of NSGA-II in Dynamic Environments Using an Adaptive Mutation Operator ¶ A Case Study. <i>Lecture Notes in Computer Science</i> , 2008 , 90-97 | 0.9 | |

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| 39 | Additive DEA based on MCDA with imprecise information. <i>Journal of the Operational Research Society</i> , 2008 , 59, 54-63 | 2 | 35 |
| 38 | Stability analysis of efficient solutions in multiobjective integer programming: A case study in load management. <i>Computers and Operations Research</i> , 2008 , 35, 186-197 | 4.6 | 2 |
| 37 | Design of an adaptive mutation operator in an electrical load management case study. <i>Computers and Operations Research</i> , 2008 , 35, 2925-2936 | 4.6 | 9 |
| 36 | A multi-criteria decision approach to sorting actions for promoting energy efficiency. <i>Energy Policy</i> , 2008 , 36, 2351-2363 | 7.2 | 50 |
| 35 | A multicriteria decision support system for housing evaluation. <i>Decision Support Systems</i> , 2007 , 43, 779-790 | 5.0 | 53 |
| 34 | Multiple objective linear programming models with interval coefficients: An illustrated overview. <i>European Journal of Operational Research</i> , 2007 , 181, 1434-1463 | 5.6 | 123 |
| 33 | A Multiple Objective Approach to Direct Load Control Using an Interactive Evolutionary Algorithm. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 1004-1011 | 7 | 66 |
| 32 | An Evolutionary Approach for Assessing the Degree of Robustness of Solutions to Multi-Objective Models. <i>Studies in Computational Intelligence</i> , 2007 , 565-582 | 0.8 | 5 |
| 31 | Passive and Active Anti-Resonance Capacitor Systems for Power Factor Correction 2006 , | | 2 |
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