

Michael Short

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

811
citations

471061

17
h-index

610482

24
g-index

80
all docs

80
docs citations

80
times ranked

728
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | On binomial quantile and proportion bounds: With applications in engineering and informatics. Communications in Statistics - Theory and Methods, 2023, 52, 4183-4199. | 0.6 | 3 |
| 2 | A Qualitative Based Causal-Loop Diagram for Understanding Policy Design Challenges for a Sustainable Transition Pathway: The Case of Tees Valley Region, UK. Sustainability, 2022, 14, 4462. | 1.6 | 5 |
| 3 | Optimal Battery Dispatch Using Finite-Input Set Non-Linear Model Predictive Control: Algorithm Development and Case Study. Electronics (Switzerland), 2022, 11, 101. | 1.8 | 0 |
| 4 | Experimental study of electrical heating to enhance oil production from oil-wet carbonate reservoirs. Fuel, 2022, 324, 124559. | 3.4 | 14 |
| 5 | Smooth particle filter-based likelihood approximations for remaining useful life prediction of Lithium-Ion batteries. IET Smart Grid, 2021, 4, 151-161. | 1.5 | 6 |
| 6 | An Integrated Approach to Adaptive Control and Supervisory Optimisation of HVAC Control Systems for Demand Response Applications. Energies, 2021, 14, 2078. | 1.6 | 8 |
| 7 | Transitioning to Society 5.0 in Africa: Tools to Support ICT Infrastructure Sharing. Data, 2021, 6, 69. | 1.2 | 5 |
| 8 | Strategies for Controlling Microgrid Networks with Energy Storage Systems: A Review. Energies, 2021, 14, 7234. | 1.6 | 25 |
| 9 | Towards Self-Sustainable Island Grids through Optimal Utilization of Renewable Energy Potential and Community Engagement. Energies, 2020, 13, 3386. | 1.6 | 13 |
| 10 | Electrical and Mechanical Sensor-Based Mass Flow Rate Measurement System: A Comparative Approach. , 2020, , . | | 2 |
| 11 | A Decentralized Informatics, Optimization, and Control Framework for Evolving Demand Response Services. Energies, 2020, 13, 4191. | 1.6 | 6 |
| 12 | Time-Frequency Image Analysis and Transfer Learning for Capacity Prediction of Lithium-Ion Batteries. Energies, 2020, 13, 5447. | 1.6 | 23 |
| 13 | On the Role of Regulatory Policy on the Business Case for Energy Storage in Both EU and UK Energy Systems: Barriers and Enablers. Energies, 2020, 13, 1080. | 1.6 | 9 |
| 14 | Lifetime Degradation Cost Analysis for Li-Ion Batteries in Capacity Markets using Accurate Physics-Based Models. Energies, 2020, 13, 2816. | 1.6 | 5 |
| 15 | Electricity demand forecasting for decentralised energy management. Energy and Built Environment, 2020, 1, 178-186. | 2.9 | 40 |
| 16 | Degradation Cost Analysis of Li-Ion Batteries in the Capacity Market with Different Degradation Models. Electronics (Switzerland), 2020, 9, 90. | 1.8 | 20 |
| 17 | An Industrial Digitalization Platform for Condition Monitoring and Predictive Maintenance of Pumping Equipment. Sensors, 2019, 19, 3781. | 2.1 | 32 |
| 18 | Optimal Dispatch of Aggregated HVAC Units for Demand Response: An Industry 4.0 Approach. Energies, 2019, 12, 4320. | 1.6 | 20 |

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|----|--|-----|-----------|
| 19 | On the use of thermal inertia in building stock to leverage decentralised demand side frequency regulation services. <i>Applied Thermal Engineering</i> , 2018, 133, 97-106. | 3.0 | 22 |
| 20 | Demand Response Technology Readiness Levels for Energy Management in Blocks of Buildings. <i>Buildings</i> , 2018, 8, 13. | 1.4 | 26 |
| 21 | Load forecasting and dispatch optimisation for decentralised co-generation plant with dual energy storage. <i>Applied Energy</i> , 2017, 186, 304-320. | 5.1 | 35 |
| 22 | Move Suppression Calculations for Well-Conditioned MPC. <i>ISA Transactions</i> , 2017, 67, 371-381. | 3.1 | 4 |
| 23 | Eligible earliest deadline first: Server-based scheduling for master-slave industrial wireless networks. <i>Computers and Electrical Engineering</i> , 2017, 64, 305-321. | 3.0 | 4 |
| 24 | Timing analysis for embedded systems using non-preemptive EDF scheduling under bounded error arrivals. <i>Applied Computing and Informatics</i> , 2017, 13, 130-139. | 3.7 | 2 |
| 25 | A Microcontroller-Based Adaptive Model Predictive Control Platform for Process Control Applications. <i>Electronics (Switzerland)</i> , 2017, 6, 88. | 1.8 | 12 |
| 26 | Demand response in blocks of buildings: opportunities and requirements. <i>Entrepreneurship and Sustainability Issues</i> , 2017, 4, 271-281. | 0.4 | 17 |
| 27 | Bounds on Worst-Case Deadline Failure Probabilities in Controller Area Networks. <i>Journal of Computer Networks and Communications</i> , 2016, 2016, 1-12. | 1.2 | 0 |
| 28 | Heuristic Optimization of Consumer Electricity Costs Using a Generic Cost Model. <i>Energies</i> , 2016, 9, 6. | 1.6 | 27 |
| 29 | Tunneling Horizontal IEC 61850 Traffic through Audio Video Bridging Streams for Flexible Microgrid Control and Protection. <i>Energies</i> , 2016, 9, 204. | 1.6 | 12 |
| 30 | Scheduling master-slave wireless networks in the presence of interference. , 2016, , . | | 0 |
| 31 | An improved CMOS-based inductor simulator with simplified structure for low-frequency applications. <i>Journal of Computational Electronics</i> , 2016, 15, 1017-1022. | 1.3 | 7 |
| 32 | Heuristic scheduling of multiple smart home appliances: Utility planning perspective. , 2016, , . | | 3 |
| 33 | A transmission window technique for CAN networks. <i>Journal of Systems Architecture</i> , 2016, 69, 15-28. | 2.5 | 5 |
| 34 | An embedded prototype of a residential smart appliance scheduling system. , 2016, , . | | 3 |
| 35 | Dependable Control for Wireless Distributed Control Systems. <i>Electronics (Switzerland)</i> , 2015, 4, 857-878. | 1.8 | 7 |
| 36 | Fault-tolerant generator telecontrol over a microgrid IP network. , 2015, , . | | 3 |

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|----|--|-----|-----------|
| 37 | A Note on the Suboptimality of Nonpreemptive Real-time Scheduling. IEEE Embedded Systems Letters, 2015, 7, 69-72. | 1.3 | 3 |
| 38 | Evaluation of a heuristic approach for efficient scheduling of residential smart home appliances. , 2015, , . | | 2 |
| 39 | Near-optimal scheduling of residential smart home appliances using heuristic approach. , 2015, , . | | 23 |
| 40 | Simple bounds on deadline failure probabilities in fault-tolerant real-time networks. , 2014, , . | | 6 |
| 41 | Jitter sensitivity of a self-tuning input-constrained predictive controller. , 2014, , . | | 1 |
| 42 | Tools to support sustainable entrepreneurship in energy positive neighbourhoods. Entrepreneurship and Sustainability Issues, 2014, 2, 49-59. | 0.4 | 6 |
| 43 | Towards Efficient Probabilistic Scheduling Guarantees for Real-Time Systems Subject to Random Errors and Random Bursts of Errors. , 2013, , . | | 10 |
| 44 | An experimental HIL study on the jitter sensitivity of an adaptive control system. , 2013, , . | | 3 |
| 45 | Improved Inequalities for the Poisson and Binomial Distribution and Upper Tail Quantile Functions. ISRN Probability and Statistics, 2013, 2013, 1-6. | 0.2 | 20 |
| 46 | Optimised implementation of adaptive GPC for low-order systems with time delays. Electronics Letters, 2012, 48, 485. | 0.5 | 0 |
| 47 | A first qualitative evaluation of star replication schemes for FTT-CAN. , 2012, , . | | 0 |
| 48 | A hybrid EDF algorithm for implementing resource-constrained real-time control applications. , 2012, , . | | 4 |
| 49 | Real-time infinite horizon adaptive/predictive control for Smart home HVAC applications. , 2012, , . | | 1 |
| 50 | A test facility for experimental HIL analysis of industrial embedded control systems. , 2012, , . | | 1 |
| 51 | Application level compensation for burst errors in wireless control networks. , 2012, , . | | 1 |
| 52 | Fast online identification of low-order time-delayed industrial processes. Electronics Letters, 2012, 48, 152. | 0.5 | 4 |
| 53 | Analysis and redesign of the $\hat{\epsilon}^{\text{TTC}}$ and $\hat{\epsilon}^{\text{TTH}}$ schedulers. Journal of Systems Architecture, 2012, 58, 38-47. | | 4 |
| 54 | Improved schedulability analysis of implicit deadline tasks under limited preemption EDF scheduling. , 2011, , . | | 8 |

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|----|---|-----|-----------|
| 55 | A generic controller architecture for intelligent robotic systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2011, 27, 292-305. | 6.1 | 10 |
| 56 | Bandwidth-efficient burst error tolerance in TDMA-based CAN networks. , 2011, , . | | 4 |
| 57 | RTE-SIM: A Simple, Low-Cost and Flexible Environment to Support the Teaching of Real-Time and Embedded Control. <i>International Journal of Electrical Engineering and Education</i> , 2011, 48, 339-358. | 0.4 | 6 |
| 58 | On the Implementation of Dependable Real-Time Systems with Non-Preemptive EDF. <i>Lecture Notes in Electrical Engineering</i> , 2011, , 183-196. | 0.3 | 3 |
| 59 | Conformance Testing of Soft-Core Can Controllers: A Low-Cost and Practical Approach. <i>Lecture Notes in Electrical Engineering</i> , 2011, , 129-141. | 0.3 | 0 |
| 60 | A note on "Efficient scheduling of periodic information monitoring requests"™. <i>European Journal of Operational Research</i> , 2010, 201, 329-335. | 3.5 | 3 |
| 61 | Timely Recovery from Task Failures in Non-preemptive, Deadline-driven Schedulers. , 2010, , . | | 1 |
| 62 | Analysis of overclocked controller area network. , 2010, , . | | 0 |
| 63 | Calorimeters and Techniques Used for Power Loss Measurements in Electrical Machines. <i>IEEE Instrumentation and Measurement Magazine</i> , 2010, 13, 26-33. | 1.2 | 28 |
| 64 | Improving information throughput and transmission predictability in Controller Area Networks. , 2010, , . | | 5 |
| 65 | Improved Task Management Techniques for Enforcing EDF Scheduling on Recurring Tasks. , 2010, , . | | 7 |
| 66 | Exact and Heuristic Algorithms for Thrift Cyclic Scheduling. <i>Algorithms</i> , 2009, 2, 1449-1472. | 1.2 | 0 |
| 67 | Reducing message-length variations in resource-constrained embedded systems implemented using the Controller Area Network (CAN) protocol. <i>Journal of Systems Architecture</i> , 2009, 55, 344-354. | 2.5 | 29 |
| 68 | Assessment of high-integrity embedded automotive control systems using hardware in the loop simulation. <i>Journal of Systems and Software</i> , 2008, 81, 1163-1183. | 3.3 | 40 |
| 69 | Assessment of performance and dependability in embedded control systems: Methodology and case study. <i>Control Engineering Practice</i> , 2008, 16, 1293-1307. | 3.2 | 15 |
| 70 | Development guidelines for dependable real-time embedded systems. , 2008, , . | | 7 |
| 71 | Exploring the Impact of Task Preemption on Dependability in Time-Triggered Embedded Systems: A Pilot Study. , 2008, , . | | 7 |
| 72 | Fault-Tolerant Time-Triggered Communication Using CAN. <i>IEEE Transactions on Industrial Informatics</i> , 2007, 3, 131-142. | 7.2 | 54 |

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|----|--|-----|-----------|
| 73 | Two novel shared-clock scheduling algorithms for use with "Controller Area Network"™ and related protocols. <i>Microprocessors and Microsystems</i> , 2007, 31, 326-334. | 1.8 | 28 |
| 74 | Assessing the Impact of Redundancy on Performance and Reliability in a Drive-By-Wire System. , 2006, , . | | 1 |
| 75 | A software tool for automating the design of robot fuzzy force controllers. <i>Robotica</i> , 2005, 23, 247-256. | 1.3 | 4 |
| 76 | Adaptive and Nonlinear Fuzzy Force Control Techniques Applied to Robots Operating in Uncertain Environments. <i>Journal of Field Robotics</i> , 2003, 20, 391-400. | 0.7 | 28 |
| 77 | Current State of Developing Creep Damage Constitutive Equation for 0.5Cr0.5Mo0.25V Ferritic Steel. <i>Advanced Materials Research</i> , 0, 510, 812-816. | 0.3 | 5 |
| 78 | Review of Creep Cavitation and Rupture of Low Cr Alloy and its Weldment. <i>Advanced Materials Research</i> , 0, 744, 407-411. | 0.3 | 2 |