Lars Imsland

List of Publications by Year in descending order

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145 3,211 23 51 papers citations h-index g-index

148 148 148 2447
all docs docs citations times ranked citing authors

| # | Article | IF | CITATIONS |
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| 1 | Integration of maintenance scheduling and planning for large-scale asset fleets. Optimization and Engineering, 2022, 23, 1255-1287. | 2.4 | 3 |
| 2 | Influence of data pre-processing and sensor dynamics on grey-box models for space-heating: Analysis using field measurements. Building and Environment, 2022, 212, 108832. | 6.9 | 6 |
| 3 | Nonlinear Model Predictive Control of Electrical Submersible Pumps based on Echo State Networks. Advanced Engineering Informatics, 2022, 52, 101553. | 8.0 | 8 |
| 4 | Data pre-processing and optimization techniques for stochastic and deterministic low-order grey-box models of residential buildings. Energy and Buildings, 2021, 236, 110775. | 6.7 | 20 |
| 5 | Wind farm control ―Part I: A review on control system concepts and structures. IET Renewable Power Generation, 2021, 15, 2085-2108. | 3.1 | 40 |
| 6 | A rolling horizon approach for scheduling of multiproduct batch production and maintenance using generalized disjunctive programming models. Computers and Chemical Engineering, 2021, 148, 107268. | 3.8 | 7 |
| 7 | Adaptive sampling for UAV sensor network in oil spill management. , 2021, , . | | 1 |
| 8 | Sensor fusion based on Extended and Unscented Kalman Filter for bioprocess monitoring. Journal of Process Control, 2021, 106, 195-207. | 3.3 | 10 |
| 9 | Hybrid Gaussian Process Modeling Applied to Economic Stochastic Model Predictive Control of Batch Processes. Lecture Notes in Control and Information Sciences, 2021, , 191-218. | 1.0 | 6 |
| 10 | Distributed learning for wind farm optimization with Gaussian processes. , 2020, , . | | 3 |
| 11 | Adaptive detection and prediction of performance degradation in off-shore turbomachinery. Applied Energy, 2020, 268, 114934. | 10.1 | 19 |
| 12 | Stochastic data-driven model predictive control using gaussian processes. Computers and Chemical Engineering, 2020, 139, 106844. | 3.8 | 66 |
| 13 | Optimal production and maintenance scheduling for a multiproduct batch plant considering degradation. Computers and Chemical Engineering, 2020, 135, 106734. | 3.8 | 9 |
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| 16 | Real-time optimization of wind farms using modifier adaptation and machine learning. Wind Energy Science, 2020, 5, 885-896. | 3.3 | 11 |
| 17 | Combined Optimal Control and Combinatorial Optimization for Searching and Tracking Using an Unmanned Aerial Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 691-706. | 3.4 | 7 |
| 18 | Short-term Scheduling of a Multipurpose Batch Plant Considering Degradation Effects. Computer Aided Chemical Engineering, 2019, , 1213-1218. | 0.5 | 4 |

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| 19 | Optimal Maintenance Scheduling for Washing of Compressors to Increase Operational Efficiency. Computer Aided Chemical Engineering, 2019, 46, 1321-1326. | 0.5 | 3 |
| 20 | Economic stochastic nonlinear model predictive control of a semi-batch polymerization reaction. IFAC-PapersOnLine, 2019, 52, 667-672. | 0.9 | 5 |
| 21 | Robust State Estimation for Fouling Evolution in Batch Processes using the EM Algorithm. IFAC-PapersOnLine, 2019, 52, 685-690. | 0.9 | 1 |
| 22 | Dynamic Real-Time Optimisation of a CO2 Capture Facility. IFAC-PapersOnLine, 2019, 52, 856-861. | 0.9 | 1 |
| 23 | Improved predictions from measured disturbances in linear model predictive control. Journal of Process Control, 2019, 75, 86-106. | 3.3 | 17 |
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| 28 | On Kalman filtering with linear state equality constraints. Automatica, 2019, 101, 467-470. | 5.0 | 22 |
| 29 | An iceberg forecast approach based on a statistical ocean current model. Cold Regions Science and Technology, 2019, 158, 128-142. | 3.5 | 1 |
| 30 | Optimization-based motion planning for trawling. Journal of Marine Science and Technology, 2019, 24, 984-995. | 2.9 | 1 |
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| 33 | Reliability improvement of compressors based on asset fleet reliability data. IFAC-PapersOnLine, 2018, 51, 217-224. | 0.9 | 2 |
| 34 | Asset fleet management in the process industry - a conceptual model. IFAC-PapersOnLine, 2018, 51, 281-286. | 0.9 | 1 |
| 35 | Economic Stochastic Model Predictive Control Using the Unscented Kalman Filter. IFAC-PapersOnLine, 2018, 51, 417-422. | 0.9 | 25 |
| 36 | Survey: mobile sensor networks for target searching and tracking. Cyber-Physical Systems, 2018, 4, 57-98. | 2.0 | 12 |

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| 42 | Iterative algorithms for computing the feedback Nash equilibrium point for positive systems. International Journal of Systems Science, 2017, 48, 729-737. | 5.5 | 5 |
| 43 | Scenario-based approaches for handling uncertainty in MPC for power system frequency control * *The financial support from the Research Council of Norway project 207690 â€â€ Optimal Power Network Design and Operationâ€â€™ is gratefully acknowledged IFAC-PapersOnLine, 2017, 50, 5529-5535. | 0.9 | 4 |
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| 55 | An estimation-forecast set-up for iceberg drift prediction. Cold Regions Science and Technology, 2016, 131, 88-107. | 3.5 | 13 |
| 56 | Numerical Optimal Control Mixing Collocation with Single Shooting: A Case Study. IFAC-PapersOnLine, 2016, 49, 290-295. | 0.9 | 3 |
| 57 | Optimal boundary control of 2 $	ilde{A}$ — 2 linear hyperbolic PDEs. , 2016, , . | | 3 |
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| 62 | Model Predictive Load-Frequency Control. IEEE Transactions on Power Systems, 2016, 31, 777-785. | 6. 5 | 211 |
| 63 | High-performance Embedded Model Predictive Control using Step Response Models**This work is funded by the Research Council of Norway (NFR) and Statoil through the PETROMAKS project 215684, and also by NFR, Statoil, and DNV through the AMOS project 223254 IFAC-PapersOnLine, 2015, 48, 138-143. | 0.9 | 0 |
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145 Nonlinear Observer for Vehicle Velocity with Friction and Road Bank Angle Adaptation - Validation and Comparison with an Extended Kalman Filter., 0, , . 30