

Jean-Paul Watson

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,582
citations

411340

20
h-index

445137

33
g-index

39
all docs

39
docs citations

39
times ranked

3022
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Proactive Operations and Investment Planning via Stochastic Optimization to Enhance Power Systemsâ€™ Extreme Weather Resilience. <i>Journal of Infrastructure Systems</i> , 2021, 27, . | 1.0 | 7 |
| 2 | Parametric Stochastic Programming with One Chance Constraint: Gaining Insights from Response Space Analysis. <i>Profiles in Operations Research</i> , 2021, , 99-124. | 0.3 | 0 |
| 3 | An Analysis of Multiple Contaminant Warning System Design Objectives for Sensor Placement Optimization in Water Distribution Networks. <i>Profiles in Operations Research</i> , 2021, , 125-145. | 0.3 | 0 |
| 4 | Modeling flexible generator operating regions via chance-constrained stochastic unit commitment. <i>Computational Management Science</i> , 2020, 17, 309-326. | 0.8 | 3 |
| 5 | Optimization-Driven Scenario Grouping. <i>INFORMS Journal on Computing</i> , 2020, 32, 805-821. | 1.0 | 7 |
| 6 | A novel matching formulation for startup costs in unit commitment. <i>Mathematical Programming Computation</i> , 2020, 12, 225-248. | 3.2 | 12 |
| 7 | Mixed-integer programming models for optimal constellation scheduling given cloud cover uncertainty. <i>European Journal of Operational Research</i> , 2019, 275, 431-445. | 3.5 | 28 |
| 8 | pyomo.dae: a modeling and automatic discretization framework for optimization with differential and algebraic equations. <i>Mathematical Programming Computation</i> , 2018, 10, 187-223. | 3.2 | 86 |
| 9 | A multitree approach for global solution of ACOPF problems using piecewise outer approximations. <i>Computers and Chemical Engineering</i> , 2018, 114, 145-157. | 2.0 | 8 |
| 10 | Stochastic Unit Commitment Performance Considering Monte Carlo Wind Power Scenarios. , 2018, , . | | 11 |
| 11 | Strengthened SOCP Relaxations for ACOPF with McCormick Envelopes and Bounds Tightening. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1555-1560. | 0.3 | 9 |
| 12 | Contingency-constrained unit commitment with post-contingency corrective recourse. <i>Annals of Operations Research</i> , 2017, 249, 381-407. | 2.6 | 18 |
| 13 | BBPH: Using progressive hedging within branch and bound to solve multi-stage stochastic mixed integer programs. <i>Operations Research Letters</i> , 2017, 45, 34-39. | 0.5 | 13 |
| 14 | Obtaining lower bounds from the progressive hedging algorithm for stochastic mixed-integer programs. <i>Mathematical Programming</i> , 2016, 157, 47-67. | 1.6 | 126 |
| 15 | Stochastic optimization models in forest planning: a progressive hedging solution approach. <i>Annals of Operations Research</i> , 2015, 232, 259. | 2.6 | 15 |
| 16 | Integration of progressive hedging and dual decomposition in stochastic integer programs. <i>Operations Research Letters</i> , 2015, 43, 311-316. | 0.5 | 36 |
| 17 | Toward scalable stochastic unit commitment. <i>Energy Systems</i> , 2015, 6, 417-438. | 1.8 | 50 |
| 18 | A scalable solution framework for stochastic transmission and generation planning problems. <i>Computational Management Science</i> , 2015, 12, 491-518. | 0.8 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Toward scalable stochastic unit commitment. Part 1: load scenario generation. Energy Systems, 2015, 6, 309-329. | 1.8 | 31 |
| 20 | Block-oriented modeling of superstructure optimization problems. Computers and Chemical Engineering, 2013, 57, 10-23. | 2.0 | 12 |
| 21 | Multi-Stage Robust Unit Commitment Considering Wind and Demand Response Uncertainties. IEEE Transactions on Power Systems, 2013, 28, 2708-2717. | 4.6 | 428 |
| 22 | Two-stage robust optimization for N-k contingency-constrained unit commitment. IEEE Transactions on Power Systems, 2013, 28, 2366-2375. | 4.6 | 160 |
| 23 | Toward scalable, parallel progressive hedging for stochastic unit commitment. , 2013, , . | | 64 |
| 24 | Pyomo – Optimization Modeling in Python. Springer Optimization and Its Applications, 2012, , . | 0.6 | 132 |
| 25 | Modeling and Optimization of Superstructure-based Stochastic Programs for Risk-aware Decision Support. Computer Aided Chemical Engineering, 2012, 31, 1060-1064. | 0.3 | 1 |
| 26 | PySP: modeling and solving stochastic programs in Python. Mathematical Programming Computation, 2012, 4, 109-149. | 3.2 | 89 |
| 27 | A Progressive Hedging Approach for Parameter Estimation via Stochastic Nonlinear Programming. Computer Aided Chemical Engineering, 2012, 31, 1507-1511. | 0.3 | 1 |
| 28 | Formulating and Analyzing Multi-Stage Sensor Placement Problems. , 2011, , . | | 4 |
| 29 | Progressive hedging innovations for a class of stochastic mixed-integer resource allocation problems. Computational Management Science, 2011, 8, 355-370. | 0.8 | 214 |
| 30 | Pyomo: modeling and solving mathematical programs in Python. Mathematical Programming Computation, 2011, 3, 219-260. | 3.2 | 665 |
| 31 | Formulation and Optimization of Robust Sensor Placement Problems for Drinking Water Contamination Warning Systems. Journal of Infrastructure Systems, 2009, 15, 330-339. | 1.0 | 72 |
| 32 | Designing Contamination Warning Systems for Municipal Water Networks Using Imperfect Sensors. Journal of Water Resources Planning and Management - ASCE, 2009, 135, 253-263. | 1.3 | 70 |
| 33 | US Environmental Protection Agency Uses Operations Research to Reduce Contamination Risks in Drinking Water. Interfaces, 2009, 39, 57-68. | 1.6 | 24 |
| 34 | The Battle of the Water Sensor Networks (BWSN): A Design Challenge for Engineers and Algorithms. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 556-568. | 1.3 | 464 |
| 35 | Limited-Memory Techniques for Sensor Placement in Water Distribution Networks. Lecture Notes in Computer Science, 2008, , 125-137. | 1.0 | 9 |
| 36 | Sensor Placement in Municipal Water Networks with Temporal Integer Programming Models. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 218-224. | 1.3 | 232 |

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|----|--|-----|-----------|
| 37 | Sensor Placement in Municipal Water Networks. Journal of Water Resources Planning and Management - ASCE, 2005, 131, 237-243. | 1.3 | 222 |
| 38 | Scheduling Spaceâ€‘Ground Communications for the Air Force Satellite Control Network. Journal of Scheduling, 2004, 7, 7-34. | 1.3 | 166 |
| 39 | On Mixed-Integer Programming Formulations for the Unit Commitment Problem. INFORMS Journal on Computing, 0, , . | 1.0 | 33 |