

Johan Åkesson

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

507
citations

1040056

9
h-index

1199594

12
g-index

17
all docs

17
docs citations

17
times ranked

506
citing authors

#	ARTICLE	IF	CITATIONS
1	CasADi: A Symbolic Package for Automatic Differentiation and Optimal Control. Lecture Notes in Computational Science and Engineering, 2012, , 297-307.	0.3	195
2	Toolbox for development and validation of grey-box building models for forecasting and control. Journal of Building Performance Simulation, 2016, 9, 288-303.	2.0	70
3	Assimulo: A unified framework for ODE solvers. Mathematics and Computers in Simulation, 2015, 116, 26-43.	4.4	59
4	Dynamic optimization with CasADi. , 2012, , .		25
5	Implementation of a Modelica compiler using JastAdd attribute grammars. Science of Computer Programming, 2010, 75, 21-38.	1.9	23
6	Efficient parallel solution of large-scale nonlinear dynamic optimization problems. Computational Optimization and Applications, 2014, 59, 667-688.	1.6	22
7	Design and Control of YAIP — an Inverted Pendulum on Two Wheels Robot. , 2006, , .		20
8	Object-Oriented Modeling and Optimal Control: A Case Study in Power Plant Start-Up. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9549-9554.	0.4	17
9	Dynamic Optimization in JModelica.org. Processes, 2015, 3, 471-496.	2.8	17
10	Parallel Solution of Large-Scale Dynamic Optimization Problems. Computer Aided Chemical Engineering, 2011, 29, 813-817.	0.5	15
11	Collocation Methods for Optimization in a Modelica Environment. , 2012, , .		15
12	Methods and Tools for Robust Optimal Control of Batch Chromatographic Separation Processes. Processes, 2015, 3, 568-606.	2.8	11
13	A framework for nonlinear model-predictive control using object-oriented modeling with a case study in power plant start-up. , 2013, , .		7
14	Symbolic elimination in dynamic optimization based on block-triangular ordering. Optimization Methods and Software, 2018, 33, 92-119.	2.4	5
15	Open Physical Models in Control Engineering Education. International Journal of Electrical Engineering and Education, 2010, 47, 448-459.	0.8	3
16	A comparison of two metacompilation approaches to implementing a complex domain-specific language. , 2012, , .		2
17	Extending Languages by Leveraging Compilers: From Modelica to Optimica. IEEE Software, 2011, 28, 68-74.	1.8	1