

Ralf Hannemann-Tamas

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

405
citations

933447

10
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

349
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Direct single shooting for dynamic optimization of differential-algebraic equation systems with optimization criteria embedded. <i>Computers and Chemical Engineering</i> , 2022, 159, 107643. | 3.8 | 0 |
| 2 | Guaranteed satisfaction of inequality state constraints in PDE-constrained optimization. <i>Automatica</i> , 2020, 111, 108653. | 5.0 | 3 |
| 3 | Simulation of differential-algebraic equation systems with optimization criteria embedded in Modelica. <i>Computers and Chemical Engineering</i> , 2020, 140, 106920. | 3.8 | 5 |
| 4 | Polynomial approximation of inequality path constraints in dynamic optimization. <i>Computers and Chemical Engineering</i> , 2020, 135, 106732. | 3.8 | 6 |
| 5 | Multiscale dynamic modeling and simulation of a biorefinery. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2561-2574. | 3.3 | 9 |
| 6 | Modeling of dynamic systems with a variable number of phases in liquid-liquid equilibria. <i>AIChE Journal</i> , 2019, 65, 571-581. | 3.6 | 5 |
| 7 | Optimized Hollow Fiber Sorbents and Pressure Swing Adsorption Process for H ₂ Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5093-5105. | 3.7 | 19 |
| 8 | Robust dynamic optimization of batch processes under parametric uncertainty: Utilizing approaches from semi-infinite programs. <i>Computers and Chemical Engineering</i> , 2018, 116, 253-267. | 3.8 | 15 |
| 9 | Higher-order Discrete Adjoint ODE Solver in C++ for Dynamic Optimization. <i>Procedia Computer Science</i> , 2015, 51, 256-265. | 2.0 | 5 |
| 10 | Adjoint Sensitivity Analysis for Nonsmooth Differential-Algebraic Equation Systems. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A2380-A2402. | 2.8 | 4 |
| 11 | An iterative partition-based moving horizon estimator with coupled inequality constraints. <i>Automatica</i> , 2015, 61, 302-307. | 5.0 | 29 |
| 12 | Full algorithmic differentiation of a Rosenbrock-type method for direct single shooting. , 2014, , . | | 0 |
| 13 | Model complexity reduction of chemical reaction networks using mixed-integer quadratic programming. <i>Computers and Mathematics With Applications</i> , 2013, 65, 1575-1595. | 2.7 | 16 |
| 14 | How to verify optimal controls computed by direct shooting methods? – A tutorial. <i>Journal of Process Control</i> , 2012, 22, 494-507. | 3.3 | 26 |
| 15 | A two-layer architecture for economically optimal process control and operation. <i>Journal of Process Control</i> , 2011, 21, 311-321. | 3.3 | 111 |
| 16 | Discrete first- and second-order adjoints and automatic differentiation for the sensitivity analysis of dynamic models. <i>Procedia Computer Science</i> , 2010, 1, 297-305. | 2.0 | 33 |
| 17 | Continuous and Discrete Composite Adjoint for the Hessian of the Lagrangian in Shooting Algorithms for Dynamic Optimization. <i>SIAM Journal of Scientific Computing</i> , 2010, 31, 4675-4695. | 2.8 | 33 |
| 18 | Neighboring-extremal updates for nonlinear model-predictive control and dynamic real-time optimization. <i>Journal of Process Control</i> , 2009, 19, 1277-1288. | 3.3 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Incremental single shooting – A robust method for the estimation of parameters in dynamical systems. Computers and Chemical Engineering, 2009, 33, 1298-1305. | 3.8 | 18 |