

Thomas Gustafsson

List of Publications by Year in descending order

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59
papers

548
citations

687363

13
h-index

752698

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g-index

59
all docs

59
docs citations

59
times ranked

551
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust state estimation and unknown inputs reconstruction for a class of nonlinear systems: Multiobjective approach. <i>Automatica</i> , 2016, 64, 1-7.	5.0	50
2	Observer design for uncertain nonlinear discrete-time systems with time delay; LMI optimization approach. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 1514-1527.	3.7	37
3	On the Design and Implementation of a Rotary Crane Controller. <i>European Journal of Control</i> , 1996, 2, 166-175.	2.6	36
4	Adaptive Kalman filtering based navigation: An IMU/GPS integration approach. , 2011, , .		34
5	Effect of kinematic parameters on MPC based on-line motion planning for an articulated vehicle. <i>Robotics and Autonomous Systems</i> , 2015, 70, 16-24.	5.1	33
6	Hand grip strength is strongly associated with lower limb strength but only weakly with postural control in community-dwelling older adults. <i>Archives of Gerontology and Geriatrics</i> , 2021, 94, 104345.	3.0	30
7	Detecting broken rotor bars in induction motors with model-based support vector classifiers. <i>Control Engineering Practice</i> , 2016, 52, 15-23.	5.5	28
8	Design and experimental evaluation of a novel sliding mode controller for an articulated vehicle. <i>Robotics and Autonomous Systems</i> , 2018, 103, 213-221.	5.1	27
9	A full error dynamics switching modeling and control scheme for an articulated vehicle. <i>International Journal of Control, Automation and Systems</i> , 2015, 13, 1221-1232.	2.7	26
10	Application of reduced models for robust control and state estimation of a distributed parameter system. <i>Journal of Process Control</i> , 2009, 19, 539-549.	3.3	25
11	A fault detection scheme based on minimum identified uncertainty bounds violation for broken rotor bars in induction motors. <i>Control Engineering Practice</i> , 2016, 48, 63-77.	5.5	24
12	Model parameter estimation of simplified linear models for a continuous paper pulp digester. <i>Journal of Process Control</i> , 2007, 17, 115-127.	3.3	19
13	Control oriented modeling of flow and size distribution in cone crushers. <i>Minerals Engineering</i> , 2014, 56, 81-90.	4.3	15
14	A Generalized Reduced-Complexity Inertial Navigation System for Unmanned Aerial Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 192-207.	5.2	13
15	Nonlinear observer design for a class of Lipschitz time-delay systems with unknown inputs: LMI approach. , 2011, , .		12
16	Phasor extremum seeking and its application in Kaplan turbine control. , 2014, , .		11
17	Broken bars fault diagnosis based on uncertainty bounds violation for three-phase induction motors. <i>International Transactions on Electrical Energy Systems</i> , 2015, 25, 304-325.	1.9	11
18	On the stability analysis of phasor and classic extremum seeking control. <i>Systems and Control Letters</i> , 2016, 91, 55-62.	2.3	9

#	ARTICLE	IF	CITATIONS
19	Bio-Inspired Climbing Robots in Wet Environments: Recent Trends in Adhesion Methods and Materials. , 2018, , .		9
20	Observer design for a class of nonlinear systems subject to unknown inputs. , 2014, , .		8
21	A Fault diagnosis scheme for three phase induction motors based on uncertainty bounds. , 2012, , .		7
22	Stator winding short circuit fault detection based on set membership identification for three phase induction motors. , 2012, , .		7
23	Faults Classification Scheme for Three Phase Induction Motor. International Journal of System Dynamics Applications, 2014, 3, 1-20.	0.3	7
24	H ∞ observer design for uncertain discrete-time nonlinear delay systems: LMI optimization approach. , 2012, , .		6
25	Calibrating Distance Sensors for Terrestrial Applications Without Groundtruth Information. IEEE Sensors Journal, 2017, 17, 3698-3709.	4.7	6
26	Path following for an articulated vehicle based on switching model predictive control under varying speeds and slip angles. , 2012, , .		5
27	Maximum power point tracking for micro hydro power plants using extremum seeking control. , 2015, , .		5
28	Stabilization of an Inverted Pendulum via Human Brain Inspired Controller Design. , 2019, , .		5
29	On-Line path planning for an articulated vehicle based on Model Predictive Control. , 2013, , .		4
30	Precise hybrid motion detection and tracking in dynamic background. , 2011, , .		3
31	Experimental evaluation of a broken rotor bar fault detection scheme based on Uncertainty Bounds violation. , 2013, , .		3
32	Relative gain array estimation based on non-parametric frequency domain system identification. , 2014, , .		3
33	Joint Temperature-Lasing Mode Compensation for Time-of-Flight LiDAR Sensors. Sensors, 2015, 15, 31205-31223.	3.8	3
34	Parameter Estimation and Change Detection in Linear Regression Models Using Mixed Integer Linear Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 209-214.	0.4	2
35	H ∞ ; static state feedback control of linear singular perturbation systems: A new approach. , 2011, , .		2
36	State Space Realization of Wood Drying Process: Modeling, Simulation and Evaluation in Reality. , 2013, , .		2

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37	A robust linear discrimination fault classification scheme for three phase induction motors. , 2013, , .		2
38	On-line optimization of cone crushers using Extremum-Seeking Control. , 2013, , .		2
39	Evaluation of Vehicle Tracking for Traffic Monitoring Based on Road Surface Mounted Magnetic Sensors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 13-18.	0.4	2
40	Observer-based control design for a class of nonlinear systems subject to unknown inputs: LMI approach. , 2015, , .		2
41	Real-Time Bug-Like Dynamic Path Planning for an Articulated Vehicle. Lecture Notes in Electrical Engineering, 2015, , 201-215.	0.4	2
42	Paper machine dry line position control during grade changes. , 1998, , .		1
43	Application of Fuzzy Control to a Flotation Process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 6998-7003.	0.4	1
44	Physical model parameter estimation of a nonlinear process. , 2006, , .		1
45	Estimation of Sideslip Angles of a Volvo A25E Articulated All-Wheel Drive Hauler Based on GPS/INS Measurements. , 0, , .		1
46	An On-line Method for Estimation of Piecewise Constant Parameters in Linear Regression Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3171-3176.	0.4	1
47	Tyre parameter estimation based on control of individual wheel drives. International Journal of Vehicle Autonomous Systems, 2014, 12, 247.	0.2	1
48	H $\hat{\alpha}$ Filter Design for State Estimation and Unknown Inputs Reconstruction of a Class of Nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 61-66.	0.4	1
49	Bayesian strategies for calibrating heteroskedastic static sensors with unknown model structures. , 2018, , .		1
50	Replicating human brain mechanisms towards balancing. , 2019, , .		1
51	Physical Model Parameter Estimation of a Nonlinear Process. , 2006, , .		1
52	Modeling and Calibrating Triangulation Lidars for Indoor Applications. Lecture Notes in Electrical Engineering, 2018, , 342-366.	0.4	1
53	Dynamic modeling of flotation circuits. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 197-202.	0.4	0
54	A new approach on H ∞ control of linear singular perturbation systems. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
55	An iterative-LMI based H_2 control of singular perturbation systems. , 2011, , .		0
56	Regularization with hard penalty functions for on-line estimation. , 2011, , .		0
57	Broken rotor bar fault detection based on uncertainty ellipsoidal intersection for three phase induction motors. , 2013, , .		0
58	Scale model articulated vehicle with individual wheel drives for traction and motion control field tests. International Journal of Vehicle Systems Modelling and Testing, 2015, 10, 305.	0.1	0
59	Optimization of a quarter vehicle model. , 2016, , .		0