

Maryam Dehghani

List of Publications by Year in descending order

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docs citations

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809
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust nonlinear control of blood glucose in diabetic patients subject to model uncertainties. ISA Transactions, 2023, 133, 353-368.	3.1	3
2	A New Power Flow Model With a Single Nonconvex Quadratic Constraint: The LMI Approach. IEEE Transactions on Power Systems, 2022, 37, 1218-1229.	4.6	4
3	Reducing conservatism in robust stability analysis of fractional-order-polytopic systems. ISA Transactions, 2022, 119, 106-117.	3.1	9
4	Robust dynamic output feedback control of blood glucose level in diabetic rat with robust descriptor Kalman filter. Biomedical Signal Processing and Control, 2022, 71, 103088.	3.5	3
5	Intrusion Detection, Measurement Correction, and Attack Localization of PMU Networks. IEEE Transactions on Industrial Electronics, 2022, 69, 4697-4706.	5.2	11
6	BMI-Based Load Frequency Control in Microgrids Under False Data Injection Attacks. IEEE Systems Journal, 2022, 16, 1021-1031.	2.9	25
7	Optimal gain scheduling control of proton exchange membrane fuel cell: An LMI approach. IET Renewable Power Generation, 2022, 16, 459-469.	1.7	6
8	Optimal frequency regulation in an uncertain islanded microgrid: A modified direct search algorithm. IET Renewable Power Generation, 2022, 16, 726-739.	1.7	4
9	Dynamic GPS Spoofing Attack Detection, Localization, and Measurement Correction Exploiting PMU and SCADA. IEEE Systems Journal, 2021, 15, 2531-2540.	2.9	40
10	Investigation of Wind Energy Impact on Power Systems Stability Using Lyapunov Exponents. Lecture Notes in Networks and Systems, 2021, , 12-22.	0.5	0
11	PMU-Based Power System Stabilizer Design: Optimal Signal Selection and Controller Design. IEEE Transactions on Industry Applications, 2021, 57, 5677-5686.	3.3	9
12	Insulin dosage control of time-delayed type-1 diabetes. , 2021, , 95-110.		0
13	A Nonlinear MPC Approach for Blood Glucose Regulation in Diabetic Patients. , 2021, , ,		3
14	Data-driven Model Predictive Controller Design for Left Ventricular Assist Devices. , 2021, , ,		2
15	LPV Control of an Influenza Model with Vaccination and Antiviral Treatment. , 2021, , ,		2
16	Design of Linear Parameter Varying Controller for Hydrostatic Transmission System (HST). , 2021, , ,		0
17	A non-conservative state feedback control methodology for linear systems with state delay. International Journal of Systems Science, 2021, 52, 2549-2563.	3.7	5
18	Hardware-in-the-loop control of glucose in diabetic patients based on nonlinear time-varying blood glucose model. Biomedical Signal Processing and Control, 2021, 66, 102467.	3.5	8

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19	Designing controller parameters of an LPV system via design space exploration. European Journal of Control, 2021, 59, 47-57.	1.6	8
20	Extremum-seeking control of left ventricular assist device to maximize the cardiac output and prevent suction. Chaos, Solitons and Fractals, 2021, 148, 111013.	2.5	3
21	Linear parameter varying model of COVID-19 pandemic exploiting basis functions. Biomedical Signal Processing and Control, 2021, 70, 102999.	3.5	8
22	Advanced Control of DC Grid-Connected Proton Exchange Membrane Fuel Cell: A Linear Parameter Varying Approach. , 2021, , .		0
23	Optimal impulsive blood glucose control through multiple injections. Chaos, Solitons and Fractals, 2021, 152, 111326.	2.5	4
24	Optimal Frequency Regulation in AC Mobile Power Grids Exploiting Bilinear Matrix Inequalities. IEEE Transactions on Transportation Electrification, 2021, 7, 2464-2473.	5.3	12
25	Direct Search-based Delay Attack Mitigation in Electric Vehicle Aggregators. , 2021, , .		2
26	Optimal Robust LPV Control Design for Novel Covid-19 Disease. Journal of Control, 2021, 14, 141-153.	0.1	0
27	Improved Load Frequency Control of Time-Delayed Electric Vehicle Aggregators via Direct Search Method. , 2021, , .		1
28	Cyber Attack Detection in PMU Networks Exploiting the Combination of Machine Learning and State Estimation-Based Methods. , 2021, , .		1
29	Intelligent GPS Spoofing Attack Detection in Power Grid. , 2021, , .		5
30	Robust LPV control design for blood glucose regulation considering daily life factors. Biomedical Signal Processing and Control, 2020, 57, 101830.	3.5	17
31	Robust sliding mode observer design for simultaneous fault reconstruction in perturbed Takagi-Sugeno fuzzy systems using non-quadratic stability analysis. JVC/Journal of Vibration and Control, 2020, 26, 1092-1105.	1.5	19
32	Stability analysis of systems with time-varying delays using overlapped switching Lyapunov Krasovskii functional. Journal of the Franklin Institute, 2020, 357, 10844-10860.	1.9	15
33	Bilinear matrix inequality-based nonquadratic controller design for polytopic-linear parameter varying systems. International Journal of Robust and Nonlinear Control, 2020, 30, 7655-7669.	2.1	18
34	Blood Glucose Control In Type 1 Diabetic Rat, Considering Food Intake Effects. , 2020, , .		2
35	Selecting the Optimal Signals in Phasor Measurement Unit-based Power System Stabilizer Design. , 2020, , .		2
36	A New Fusion Estimation Method for Multi-Rate Multi-Sensor Systems With Missing Measurements. IEEE Access, 2020, 8, 47522-47532.	2.6	45

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37	Optimal Linear Parameter Varying Controller Design for Proton Exchange Membrane Fuel Cell Using LMI Techniques. , 2020, , .		3
38	WAMS State Estimation Considering Possible One-Step Delayed Measurements. , 2020, , .		0
39	Controller Design for Left Ventricular Assist Devices in Patients with Heart Failure. , 2020, , .		6
40	Adaptive Backstepping Extremum Seeking Control of a Class of Nonlinear Systems. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 415-423.	0.8	1
41	Output feedback controller for polytopic systems exploiting the direct searching of the design space. International Journal of Robust and Nonlinear Control, 2019, 29, 5164-5177.	2.1	21
42	Fuzzy model-based controller for blood glucose control in type 1 diabetes: An LMI approach. Biomedical Signal Processing and Control, 2019, 54, 101627.	3.5	24
43	Glucose Control In Diabetic Patients Considering Daily Real Life Factors. , 2019, , .		5
44	Lyapunov Exponent based Stability Assessment of Power Systems. , 2019, , .		2
45	Modelling and Control of Paraplegic Subjects Walking Using Functional Electrical Stimulation. , 2019, , .		0
46	Counteracting GPS Spoofing Attack on PMUs by Dynamic State Estimation. , 2019, , .		6
47	Transient performance improvement of model reference adaptive control: LMI-based resetting. International Journal of Adaptive Control and Signal Processing, 2018, 32, 390-402.	2.3	1
48	A solution for enhancement of transient performance in nonlinear adaptive control: Optimal adaptive reset based on barrier Lyapunov function. ISA Transactions, 2018, 80, 169-175.	3.1	15
49	Voltage stability assessment using multi-objective biogeography-based subset selection. International Journal of Electrical Power and Energy Systems, 2018, 103, 525-536.	3.3	34
50	Cyber-attack detection system of large-scale power systems using decentralized unknown input observer. , 2017, , .		19
51	Blood glucose control for type I diabetes mellitus considering time delay. , 2017, , .		6
52	Optimal adaptive reset control with guaranteed transient and steady state tracking error bounds. Journal of the Franklin Institute, 2017, 354, 5949-5963.	1.9	5
53	Simultaneous fault reconstruction of TS fuzzy systems using robust sliding mode observer and non-quadratic stability analysis. , 2017, , .		3
54	Identification and Adaptive Position Control of Uncertain Two-Mass Systems with Backlash Hard Nonlinearity. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2017, 41, 197-207.	0.8	5

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55	Multi-objective optimization of decision trees for power system voltage security assessment. , 2016, , .		14
56	Exploiting vector extremum seeking control for simultaneous optimization of net power and lifespan enhancement of PEM fuel cells. , 2016, , .		1
57	Constrained RMPC algorithms for time delay systems with parametric uncertainties: Application to the cancer combined therapy. , 2016, , .		5
58	LPV modeling and position control of two mass systems with variable backlash using LMIs. , 2016, , .		1
59	Dynamic state estimation of a permanent magnet synchronous generator-based wind turbine. IET Renewable Power Generation, 2016, 10, 1278-1286.	1.7	28
60	Large-scale power systems state estimation using PMU and SCADA data. , 2016, , .		7
61	Dynamic state estimation of a doubly fed induction generator based on a comprehensive nonlinear model. Simulation Modelling Practice and Theory, 2016, 69, 92-112.	2.2	11
62	A non-iterative LMI based PID power system stabilizer. , 2016, , .		0
63	A backstepping approach for blood glucose control of parker system. , 2016, , .		7
64	Model predictive control of a class of uncertain nonlinear discrete time systems: The LMI approach. , 2016, , .		7
65	Simultaneous Optimization of Net Power and Enhancement of PEM Fuel Cell Lifespan Using Extremum Seeking and Sliding Mode Control Techniques. IEEE Transactions on Energy Conversion, 2016, 31, 688-696.	3.7	19
66	Observability reliability evaluation in power systems considering data uncertainty. , 2015, , .		2
67	Integrity attack detection in PMU networks using static state estimation algorithm. , 2015, , .		11
68	Adaptive extremum seeking control of a nonlinear system using backstepping technique. , 2015, , .		1
69	A combined "probability" and "LMI" Method for determining the range of parameter variation in the VS-FP wind turbine LPV model. , 2015, , .		0
70	Performance improvement in grid-connected fuel cell power plant: An LPV robust control approach. International Journal of Electrical Power and Energy Systems, 2015, 67, 306-314.	3.3	22
71	PMU based voltage security assessment of power systems exploiting principal component analysis and decision trees. International Journal of Electrical Power and Energy Systems, 2015, 64, 655-663.	3.3	51
72	Adaptive control of rigid-link electrically driven robots with parametric uncertainties in kinematics and dynamics and without acceleration measurements. Robotica, 2014, 32, 1153-1169.	1.3	4

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73	PMU based observability reliability evaluation in electric power systems. Electric Power Systems Research, 2014, 116, 347-354.	2.1	30
74	Identification of multivariable nonlinear systems in the presence of colored noises using iterative hierarchical least squares algorithm. ISA Transactions, 2014, 53, 1243-1252.	3.1	58
75	PMU Ranking Based on Singular Value Decomposition of Dynamic Stability Matrix. IEEE Transactions on Power Systems, 2013, 28, 2263-2270.	4.6	38
76	Backstepping position control of two-mass systems with unknown backlash. , 2013, , .		8
77	Identification and adaptive position control of two mass systems with unknown backlash. , 2013, , .		5
78	LMI based model order reduction considering the minimum phase characteristic of the system. , 2013, , .		3
79	Adaptive task-space control of rigid-link robots with uncertain kinematics and dynamics and without acceleration measurements. , 2013, , .		2
80	Identification of nonlinear MIMO block-oriented systems with moving average noises using gradient based and least squares based iterative algorithms. Neurocomputing, 2012, 94, 22-31.	3.5	31
81	Gradient based iterative identification of multivariable Hammerstein-Wiener models with application to a Steam Generator Boiler. , 2012, , .		0
82	Dynamic modeling of solid oxide fuel cell stack based on local linear model tree algorithm. International Journal of Hydrogen Energy, 2012, 37, 4367-4376.	3.8	23
83	Hammerstein model identification of multivariable nonlinear systems in the presence of colored noises. , 2011, , .		2
84	Adaptive backstepping control of rigid-link electrically driven robots with uncertain kinematics and dynamics. , 2011, , .		5
85	Decentralized nonlinear H ∞ controller for large scale power systems. International Journal of Electrical Power and Energy Systems, 2011, 33, 1389-1398.	3.3	19
86	Synchronous machine model parameters estimation by a time-domain identification method. International Journal of Electrical Power and Energy Systems, 2010, 32, 524-529.	3.3	17
87	Lyapunov based H_{∞} controller design in multimachine power systems. , 2010, , .		0
88	Nonlinear state space model identification of synchronous generators. Electric Power Systems Research, 2008, 78, 926-940.	2.1	56
89	State-Space Model Parameter Identification in Large-Scale Power Systems. IEEE Transactions on Power Systems, 2008, 23, 1449-1457.	4.6	68
90	Linear H ∞ control of a synchronous generator. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
91	Robust Tuning of PSS Parameters Using the Linear Matrix Inequalities Approach. , 2007, , .		10
92	Output feedback controller design for discrete LTI systems with polytopic uncertainty via direct searching of the design space. Asian Journal of Control, 0, , .	1.9	1
93	Direct search-based optimal robust observer for polytopic systems using the concept of inverse system. JVC/Journal of Vibration and Control, 0, , 107754632210843.	1.5	1