

# Maryam Dehghani

## List of Publications by Year in descending order

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93  
papers

1,022  
citations

430754

18  
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501076

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g-index

93  
all docs

93  
docs citations

93  
times ranked

809  
citing authors

#	ARTICLE	IF	CITATIONS
1	State-Space Model Parameter Identification in Large-Scale Power Systems. IEEE Transactions on Power Systems, 2008, 23, 1449-1457.	4.6	68
2	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
3	Nonlinear state space model identification of synchronous generators. Electric Power Systems Research, 2008, 78, 926-940.	2.1	56
4	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
5	A New Fusion Estimation Method for Multi-Rate Multi-Sensor Systems With Missing Measurements. IEEE Access, 2020, 8, 47522-47532.	2.6	45
6	Dynamic GPS Spoofing Attack Detection, Localization, and Measurement Correction Exploiting PMU and SCADA. IEEE Systems Journal, 2021, 15, 2531-2540.	2.9	40
7	PMU Ranking Based on Singular Value Decomposition of Dynamic Stability Matrix. IEEE Transactions on Power Systems, 2013, 28, 2263-2270.	4.6	38
8	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
9	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
10	PMU based observability reliability evaluation in electric power systems. Electric Power Systems Research, 2014, 116, 347-354.	2.1	30
11	Dynamic state estimation of a permanent magnet synchronous generator based wind turbine. IET Renewable Power Generation, 2016, 10, 1278-1286.	1.7	28
12	BMI-Based Load Frequency Control in Microgrids Under False Data Injection Attacks. IEEE Systems Journal, 2022, 16, 1021-1031.	2.9	25
13	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
14	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
15	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
16	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
17	Decentralized nonlinear H $\infty$ controller for large scale power systems. International Journal of Electrical Power and Energy Systems, 2011, 33, 1389-1398.	3.3	19
18	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

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19	Cyber-attack detection system of large-scale power systems using decentralized unknown input observer. , 2017, , .		19
20	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
21	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
22	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
23	Robust LPV control design for blood glucose regulation considering daily life factors. Biomedical Signal Processing and Control, 2020, 57, 101830.	3.5	17
24	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
25	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
26	Multi-objective optimization of decision trees for power system voltage security assessment. , 2016, , .		14
27	Optimal Frequency Regulation in AC Mobile Power Grids Exploiting Bilinear Matrix Inequalities. IEEE Transactions on Transportation Electrification, 2021, 7, 2464-2473.	5.3	12
28	Integrity attack detection in PMU networks using static state estimation algorithm. , 2015, , .		11
29	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
30	Intrusion Detection, Measurement Correction, and Attack Localization of PMU Networks. IEEE Transactions on Industrial Electronics, 2022, 69, 4697-4706.	5.2	11
31	Robust Tuning of PSS Parameters Using the Linear Matrix Inequalities Approach. , 2007, , .		10
32	PMU-Based Power System Stabilizer Design: Optimal Signal Selection and Controller Design. IEEE Transactions on Industry Applications, 2021, 57, 5677-5686.	3.3	9
33	Reducing conservatism in robust stability analysis of fractional-order-polytopic systems. ISA Transactions, 2022, 119, 106-117.	3.1	9
34	Backstepping position control of two-mass systems with unknown backlash. , 2013, , .		8
35	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
36	Designing controller parameters of an LPV system via design space exploration. European Journal of Control, 2021, 59, 47-57.	1.6	8

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37	Linear parameter varying model of COVID-19 pandemic exploiting basis functions. Biomedical Signal Processing and Control, 2021, 70, 102999.	3.5	8
38	Large-scale power systems state estimation using PMU and SCADA data. , 2016, , .		7
39	A backstepping approach for blood glucose control of parker system. , 2016, , .		7
40	Model predictive control of a class of uncertain nonlinear discrete time systems: The LMI approach. , 2016, , .		7
41	Blood glucose control for type I diabetes mellitus considering time delay. , 2017, , .		6
42	Counteracting GPS Spoofing Attack on PMUs by Dynamic State Estimation. , 2019, , .		6
43	Optimal gain scheduling control of proton exchange membrane fuel cell: An LMI approach. IET Renewable Power Generation, 2022, 16, 459-469.	1.7	6
44	Controller Design for Left Ventricular Assist Devices in Patients with Heart Failure. , 2020, , .		6
45	Adaptive backstepping control of rigid-link electrically driven robots with uncertain kinematics and dynamics. , 2011, , .		5
46	Identification and adaptive position control of two mass systems with unknown backlash. , 2013, , .		5
47	Constrained RMPC algorithms for time delay systems with parametric uncertainties: Application to the cancer combined therapy. , 2016, , .		5
48	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
49	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
50	Glucose Control In Diabetic Patients Considering Daily Real Life Factors. , 2019, , .		5
51	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
52	Intelligent GPS Spoofing Attack Detection in Power Grid. , 2021, , .		5
53	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
54	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

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55	Optimal impulsive blood glucose control through multiple injections. Chaos, Solitons and Fractals, 2021, 152, 111326.	2.5	4
56	Optimal frequency regulation in an uncertain islanded microgrid: A modified direct search algorithm. IET Renewable Power Generation, 2022, 16, 726-739.	1.7	4
57	LMI based model order reduction considering the minimum phase characteristic of the system. , 2013, , .		3
58	Simultaneous fault reconstruction of TS fuzzy systems using robust sliding mode observer and non-quadratic stability analysis. , 2017, , .		3
59	A Nonlinear MPC Approach for Blood Glucose Regulation in Diabetic Patients. , 2021, , .		3
60	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
61	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
62	Optimal Linear Parameter Varying Controller Design for Proton Exchange Membrane Fuel Cell Using LMI Techniques. , 2020, , .		3
63	Robust nonlinear control of blood glucose in diabetic patients subject to model uncertainties. ISA Transactions, 2023, 133, 353-368.	3.1	3
64	Linear H <sub>∞</sub> control of a synchronous generator. , 2008, , .		2
65	Hammerstein model identification of multivariable nonlinear systems in the presence of colored noises. , 2011, , .		2
66	Adaptive task-space control of rigid-link robots with uncertain kinematics and dynamics and without acceleration measurements. , 2013, , .		2
67	Observability reliability evaluation in power systems considering data uncertainty. , 2015, , .		2
68	Lyapunov Exponent based Stability Assessment of Power Systems. , 2019, , .		2
69	Blood Glucose Control In Type 1 Diabetic Rat, Considering Food Intake Effects. , 2020, , .		2
70	Selecting the Optimal Signals in Phasor Measurement Unit-based Power System Stabilizer Design. , 2020, , .		2
71	Data-driven Model Predictive Controller Design for Left Ventricular Assist Devices. , 2021, , .		2
72	LPV Control of an Influenza Model with Vaccination and Antiviral Treatment. , 2021, , .		2

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73	Direct Search-based Delay Attack Mitigation in Electric Vehicle Aggregators. , 2021, , .		2
74	Adaptive extremum seeking control of a nonlinear system using backstepping technique. , 2015, , .		1
75	Exploiting vector extremum seeking control for simultaneous optimization of net power and lifespan enhancement of PEM fuel cells. , 2016, , .		1
76	LPV modeling and position control of two mass systems with variable backlash using LMIs. , 2016, , .		1
77	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
78	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
79	Improved Load Frequency Control of Time-Delayed Electric Vehicle Aggregators via Direct Search Method. , 2021, , .		1
80	Cyber Attack Detection in PMU Networks Exploiting the Combination of Machine Learning and State Estimation-Based Methods. , 2021, , .		1
81	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
82	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
83	Lyapunov based $\infty$ controller design in multimachine power systems. , 2010, , .		0
84	Gradient based iterative identification of multivariable Hammerstein-Wiener models with application to a Steam Generator Boiler. , 2012, , .		0
85	A combined $\mu$ and LMI Method for determining the range of parameter variation in the VS-FP wind turbine LPV model. , 2015, , .		0
86	A non-iterative LMI based PID power system stabilizer. , 2016, , .		0
87	Modelling and Control of Paraplegic Subjects Walking Using Functional Electrical Stimulation. , 2019, , .		0
88	Investigation of Wind Energy Impact on Power Systems Stability Using Lyapunov Exponents. Lecture Notes in Networks and Systems, 2021, , 12-22.	0.5	0
89	Insulin dosage control of time-delayed type-1 diabetes. , 2021, , 95-110.		0
90	Design of Linear Parameter Varying Controller for Hydrostatic Transmission System (HST). , 2021, , .		0

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91	Advanced Control of DC Grid-Connected Proton Exchange Membrane Fuel Cell: A Linear Parameter Varying Approach. , 2021, , .		0
92	WAMS State Estimation Considering Possible One-Step Delayed Measurements. , 2020, , .		0
93	Optimal Robust LPV Control Design for Novel Covid-19 Disease. Journal of Control, 2021, 14, 141-153.	0.1	0