Bijan Moaveni

List of Publications by Year
in descending order

64 papers	460 citations	933264 10 h-index	794469 19 g-index
66 all docs	66 docs citations	66 times ranked	411 citing authors

#	Article	IF	Citations
1	Fuzzy control system design for wheel slip prevention and tracking of desired speed profile in electric trains. Asian Journal of Control, 2022, 24, 388-400.	1.9	21
2	Experimental Parameter Estimation of Induction Motor Based on Transient and Steady-State Responses in Synchronous and Rotor Reference Frames. IEEE Transactions on Energy Conversion, 2022, 37, 145-152.	3.7	5
3	Traffic Modeling and Validation for Intersecting Metro Lines by Considering the Effect of Transfer Stations. IEEE Access, 2022, 10, 1946-1955.	2.6	3
4	Modeling and robust decentralized control system design for plasma current and position in Damavand tokamak. Plasma Physics and Controlled Fusion, 2022, 64, 045014.	0.9	1
5	Air-gap eccentricity fault detection, isolation, and estimation for synchronous generators based on eigenvalues analysis. ISA Transactions, 2022, , .	3.1	1
6	Integrated sliding mode and direct torque controls for improving transient traction in high-speed trains. JVC/Journal of Vibration and Control, 2021, 27, 629-650.	1.5	9
7	Optimal estimation of plasma boundary shape using magnetic probe measurements in Damavand tokamak. Fusion Engineering and Design, 2021, 170, 112519.	1.0	1
8	Practical Descriptor Modeling of Traffic in Intersecting Metro Lines and Robust Controller Design for Train Synchronization at Transfer Stations. IEEE Systems Journal, 2021, 15, 5549-5556.	2.9	3
9	Parallel Structure of Feedback Linearization and Sliding Mode Controllers to Track the Desired Velocity Profile in High-Speed Trains. Mathematical Problems in Engineering, 2021, 2021, 1-15.	0.6	0
10	Online Model-Based Fault Detection of Synchronous Generators Using Residual Analysis. IEEE Access, 2021, 9, 163697-163706.	2.6	4
11	Simultaneous estimation of state and packet-loss occurrences in networked control systems. ISA Transactions, 2020, 107, 307-315.	3.1	7
12	Supervisory predictive control for wheel slip prevention and tracking of desired speed profile in electric trains. ISA Transactions, 2020, 101, 102-115.	3.1	32
13	Design of an Active Approach for Detection, Estimation and Short-Circuit Stator Fault Tolerant Control in Induction Motors. Journal of Control, 2020, 14, 33-48.	0.1	0
14	Metro Traffic Modelling and Regulation for Intersecting Lines Based on The Theory of Singular Systems. , 2020, , .		0
15	An Improved Gramian-based Interaction Measure for Time-Delay Systems. IFAC-PapersOnLine, 2020, 53, 11735-11739.	0.5	0
16	Scaling, Modeling and Traffic Control of a Real Railway Network using Max-plus Algebra and Model Predictive Control. Journal of Control, 2020, 14, 103-116.	0.1	0
17	New control approaches to improve contact quality in the conventional spans and overlap section in a high-speed catenary system. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2019, 233, 988-999.	1.3	4
18	Analyzing the effect of output measurements interval and impulses distance of an impulsive observer on the control system of HIV. , 2019, , .		0

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19	Metro Traffic Regulation by Considering the Effect of Transfer Stations. , 2019, , .		4
20	Modifying the ERA and fast ERA to improve operational performance for structural system identification. Mechanical Systems and Signal Processing, 2019, 120, 664-692.	4.4	10
21	Modeling, identification, and controller design for hydraulic anti-slip braking system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 862-876.	1.1	4
22	Infinite horizon linear quadratic tracking problem: A discounted cost function approach. Optimal Control Applications and Methods, 2018, 39, 1549-1572.	1.3	7
23	Metro Traffic Modeling and Regulation in Loop Lines Using a Robust Model Predictive Controller to Improve Passenger Satisfaction. IEEE Transactions on Control Systems Technology, 2018, 26, 1541-1551.	3.2	22
24	Modified Hankel Interaction Index Array for Input-Output Pairing with Improved Characteristics. IFAC-PapersOnLine, 2018, 51, 452-457.	0.5	4
25	Auto-Calibration and Fault Detection and Isolation of Skewed Redundant Accelerometers in Measurement While Drilling Systems. Sensors, 2018, 18, 702.	2.1	10
26	Coefficients Extraction of Model and Constrained Controller Design for Fin-Roll Stabilizer System in a Fishing Boat. Journal of Ship Production and Design, 2018, 34, 226-235.	0.2	2
27	Decentralized Control of Uncertain Structures Using Luenberger Observer. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2017, 27, 127-133.	0.5	4
28	Subway Traffic Regulation Using Model-Based Predictive Control by Considering the Passengers Dynamic Effect. Arabian Journal for Science and Engineering, 2017, 42, 3021-3031.	1.7	9
29	Robust H $\hat{}$ ž filtering for uncertain discrete-time descriptor systems. International Journal of Control, Automation and Systems, 2017, 15, 995-1002.	1.6	7
30	Design optimal velocity profile for energy saving in metro system using classical optimization method. , 2017, , .		1
31	Luenberger observer application in decentralised control of civil structures. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 765-773.	0.4	1
32	Robust model predictive control employed to the container ship roll motion using fin-stabilizer. Cogent Engineering, 2016, 3, 1235478.	1.1	4
33	Identification, uncertainty modeling and robust controller design for an electromechanical actuator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3631-3641.	1.1	1
34	Identification and characterization of the hydraulic unit in an anti-lock brake system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 1430-1440.	1.1	3
35	System identification and uncertainty modeling of an electromechanical actuator. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2015, 38, 562-572.	0.6	5
36	Robust $H_{\hat{}ž}$ feedback compensator design for an electromechanical actuator with time delay. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2015, 38, 751-759.	0.6	0

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37	Robust speed controller design for induction motors based on IFOC and Kharitonov theorem. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 1173-1186.	0.9	8
38	A comprehensive distributed architecture for railway traffic control using multi-agent systems. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2015, 229, 109-124.	1.3	6
39	Vehicle longitudinal velocity estimation during the braking process using unknown input Kalman filter. Vehicle System Dynamics, 2015, 53, 1373-1392.	2.2	14
40	Identification and robust controller design for an electromechanical actuator with time delay. Transactions of the Institute of Measurement and Control, 2015, 37, 1109-1117.	1.1	10
41	Robust position control design for an electromechanical actuator with time delay. , 2014, , .		1
42	Identification, uncertainty modelling, and robust controller design for an electromechanical actuator. , 2013, , .		5
43	A NEW APPROACH FOR CONTROL CONFIGURATION SELECTION OF LINEAR MIMO PLANTS BASED ON THE STATE SPACE MODEL. Control and Intelligent Systems, 2013, 41, .	0.3	1
44	Load flow analysis and future development study for an AC electric railway. IET Electrical Systems in Transportation, 2012, 2, 139.	1.5	44
45	Vehicle velocity estimation based on data fusion by Kalman filtering for ABS. , 2012, , .		6
46	Adjustable output voltage Zeta converter using neural network adaptive model reference control. , 2011, , .		3
47	Automatic Train Control Based On The Multi-agent Control Of Cooperative Systems. Journal of Mathematics and Computer Science, 2010, 01, 247-257.	0.5	10
48	Fuzzy CMAC structures. , 2009, , .		9
49	Control Configuration Selection for Multivariable Plants. Lecture Notes in Control and Information Sciences, 2009, , .	0.6	62
50	Control Configuration Selection of Linear Multivariable Plants: The RGA Approach. Lecture Notes in Control and Information Sciences, 2009, , 13-55.	0.6	2
51	Appendix: Mathematical Models Used in Examples. Lecture Notes in Control and Information Sciences, 2009, , 219-228.	0.6	0
52	Control Configuration Selection of Linear Multivariable Plants Based on the State-Space Models. Lecture Notes in Control and Information Sciences, 2009, , 115-138.	0.6	0
53	Control Configuration of Linear Multivariable Plants: Advanced RGA Based Techniques. Lecture Notes in Control and Information Sciences, 2009, , 57-98.	0.6	0
54	Control Configuration Selection of Nonlinear Multivariable Plants. Lecture Notes in Control and Information Sciences, 2009, , 139-172.	0.6	4

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55	Control Configuration Selection of Linear Multivariable Plants: SSV and Passivity Based Techniques. Lecture Notes in Control and Information Sciences, 2009, , 99-113.	0.6	0
56	Control Configuration Selection of Linear Uncertain Multivariable Plants. Lecture Notes in Control and Information Sciences, 2009, , 173-217.	0.6	1
57	Inputâ€"output pairing analysis for uncertain multivariable processes. Journal of Process Control, 2008, 18, 527-532.	1.7	24
58	Predictive Adaptive Control of Nonlinear Multivariable Systems Using Fuzzy CMAC. , 2008, , .		1
59	A New Approach to Compute the Cross-Gramian Matrix and its Application in Input-Output Pairing of Linear Multivariable Plants. Journal of Applied Sciences, 2008, 8, 608-614.	0.1	9
60	Reconfigurable controller design for linear multivariable plants. International Journal of Modelling, Identification and Control, 2007, 2, 138.	0.2	7
61	Further Theoretical Results on â€œRelative Gain Array for Norm-Bounded Uncertain Systemsâ€. Industrial & Engineering Chemistry Research, 2007, 46, 8288-8289.	1.8	7
62	Input-Output Pairing for Nonlinear Multivariable Systems. Journal of Applied Sciences, 2007, 7, 3492-3498.	0.1	21
63	Input-Output Pairing based on Cross-Gramian Matrix. , 2006, , .		10
64	Relative gain array analysis of uncertain multivariable plants. , 2003, , .		4