Mohammad Bagher Menhaj

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Design of a Fuzzy Adaptive Sliding Mode Control System for MEMS Tunable Capacitors in Voltage Reference Applications. IEEE Transactions on Fuzzy Systems, 2022, 30, 1838-1852.	6.5	3
2	Design of Robust Model Reference Adaptive Controller for a Wider Class of Nonlinear Systems. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2022, 46, 127-139.	1.5	2
3	Adaptive optimal control of unknown discrete-time linear systems with guaranteed prescribed degree of stability using reinforcement learning. International Journal of Dynamics and Control, 2022, 10, 870-878.	1.5	5
4	Distributed optimal control for continuous-time nonaffine nonlinear interconnected systems. International Journal of Control, 2022, 95, 3462-3476.	1.2	8
5	Anti-nociceptive and anti-inflammatory activities of the essential oil isolated from <i>Cupressus arizonica</i> Greene fruits. Korean Journal of Pain, 2022, 35, 33-42.	0.8	7
6	An Adaptive Nonsingular Fast Terminal Sliding Mode Controller for Dynamic Walking of a 5-Link Planar Biped Robot in Both Single and Double Support Phases. Mathematical Problems in Engineering, 2022, 2022, 1-15.	0.6	4
7	Wearable Sensor-Based Human Activity Recognition in the Smart Healthcare System. Computational Intelligence and Neuroscience, 2022, 2022, 1-31.	1.1	38
8	Some necessary conditions on output redefinition in non-minimum phase systems. International Journal of Dynamics and Control, 2021, 9, 173-178.	1,5	0
9	A nonlinear robust optimal controller for an active transfemoral prosthesis: An estimator-based state-dependent Riccati equation approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 313-329.	0.7	4
10	A new modified polynomial-based optimal control design approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 355-370.	0.7	3
11	Precise seam tracking in robotic welding by an improved image processing approach. International Journal of Advanced Manufacturing Technology, 2021, 114, 251-270.	1.5	15
12	A neuro-observer-based optimal control for nonaffine nonlinear systems with control input saturations. Control Theory and Technology, 2021, 19, 283-294.	1.0	3
13	Design of a fuzzy PID controller for a MEMS tunable capacitor for noise reduction in a voltage reference source. SN Applied Sciences, 2021, 3, 1.	1.5	1
14	A novel controller for nonlinear uncertain systems using a combination of SDRE and function approximation technique: Regulation and tracking of flexible-joint manipulators. Journal of the Franklin Institute, 2021, 358, 5185-5212.	1.9	12
15	A unified structure for basic guidance laws of moving objects. International Journal of Systems Science, 2021, 52, 2647-2659.	3.7	1
16	Fault-Tolerant Control of Quadrotor UAVs Based on Back-Stepping Integral Sliding Mode Approach and Iterative Learning Algorithm. Mathematical Problems in Engineering, 2021, 2021, 1-15.	0.6	4
17	Robust observer-based adaptive synchronization control of uncertain nonlinear bilateral teleoperation systems under time-varying delay. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109542.	2.5	13
18	Diagnosing COVID-19 disease using an efficient CAD system. Optik, 2021, 241, 167199.	1.4	12

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19	Decentralized force and motion control of multiple cooperative manipulators. Automatika, 2021, 62, 98-108.	1.2	2
20	Nonlinear observer-based optimal control of an active transfemoral prosthesis. Journal of Central South University, 2021, 28, 140-152.	1.2	8
21	Back-Stepping Integral Sliding Mode Control with Iterative Learning Control Algorithm for Quadrotor UAV Transporting Cable-Suspended Payload. , 2021, , .		2
22	Constrained optimal consensus in multi-agent systems with single- and double-integrator dynamics. International Journal of Control, 2020, 93, 575-587.	1.2	7
23	Distributed Optimization in Heterogeneous Dynamical Networks. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2020, 44, 473-483.	1.5	5
24	Adaptive iterative learning control for unknown linear time-varying continuous systems. Transactions of the Institute of Measurement and Control, 2020, 42, 981-996.	1.1	5
25	Correction Tower: A General Embedding Method of the Error Recognition for the Knowledge Graph Correction. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2059034.	0.7	10
26	Design and application of supervisory control based on neural network PID controllers for pressurizer system. Progress in Nuclear Energy, 2020, 130, 103570.	1.3	13
27	Observer-based robust control for flexible-joint robot manipulators: A state-dependent Riccati equation-based approach. Transactions of the Institute of Measurement and Control, 2020, 42, 3135-3155.	1.1	21
28	Event-based consensus of hybrid multi-agent systems under fixed and switching topologies. , 2020, , .		0
29	Optimal Sliding Mode Controller for an Active Transfemoral Prosthesis Using State-Dependent Riccati Equation Approach. Arabian Journal for Science and Engineering, 2020, 45, 6559-6572.	1.7	11
30	Optimal topology design and distributed formation control of multiagent systems with complexâ€weights directed networks. Optimal Control Applications and Methods, 2020, 41, 1632-1643.	1.3	1
31	A design of switching supervisory control based on fuzzy-PID controllers for VVER-1000 pressurizer system with RELAP5 and MATLAB coupling. Annals of Nuclear Energy, 2020, 147, 107625.	0.9	14
32	Improving Attention and Focus Using Brain-Computer Interfaces and Cog-Car Games with brain signals processing. , 2020, , .		0
33	Fast Variable-Structure Multiple-Model Estimation Using Modified Likely-Model Set Tracker. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 109-120.	1.5	2
34	Fuzzy model predictive control of normalized air-to-fuel ratio in internal combustion engines. Soft Computing, 2019, 23, 6169-6182.	2.1	11
35	Effect of proximity to high-voltage fields: results of the neural network model and experimental model with macaques. International Journal of Environmental Science and Technology, 2019, 16, 4315-4326.	1.8	3
36	A novel method for optimal performance of ships by simultaneous optimisation of hull-propulsion-BIPV systems. Energy Conversion and Management, 2019, 197, 111879.	4.4	17

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37	Fault Tolerant Model Predictive Control of Wind Turbine Against Actuator Faults Using Laguerre Functions. , 2019, , .		Ο
38	EPCI: An Embedding Method for Post-Correction of Inconsistency in the RDF Knowledge Bases. IETE Journal of Research, 2019, , 1-13.	1.8	1
39	Robust formation control of thrust-propelled vehicles under deterministic and stochastic topology. International Journal of Systems Science, 2019, 50, 2715-2731.	3.7	2
40	Back-Stepping Integral Sliding Mode Control with Iterative Learning Control Algorithm for Quadrotor UAVs. Journal of Electrical Engineering and Technology, 2019, 14, 2539-2547.	1.2	22
41	Distributed Fault Tolerant Control for Multi-agent Systems with Complex-weighted Directed Communication Topology subject to Actuator Faults. International Journal of Control, Automation and Systems, 2019, 17, 415-424.	1.6	10
42	A data-driven method for optimal control of ship motions for safe crew transfer to offshore wind turbines. Applied Ocean Research, 2019, 90, 101847.	1.8	2
43	3D Trajectory Tracking Control for a Thrust-Propelled Vehicle with Time-varying Disturbances. International Journal of Control, Automation and Systems, 2019, 17, 1978-1986.	1.6	5
44	Neural Tensor Network Training Using Meta-Heuristic Algorithms for RDF Knowledge Bases Completion. Applied Artificial Intelligence, 2019, 33, 656-667.	2.0	8
45	Robust Adaptive Dynamic Surface Control of Nonlinear Time-varying Systems in Strict-feedback Form. International Journal of Control, Automation and Systems, 2019, 17, 1432-1444.	1.6	15
46	Model-based force/position control of cooperative manipulation systems. Automatika, 2019, 60, 113-123.	1.2	8
47	Cholinergic Modulation Promotes Attentional Modulation in Primary Visual Cortex- A Modeling Study. Scientific Reports, 2019, 9, 20186.	1.6	13
48	Fault tolerant cooperative control for affine multi-agent systems: An optimal control approach. Journal of the Franklin Institute, 2019, 356, 1360-1378.	1.9	43
49	Spatiotemporal analysis of category and target-related information processing in the brain during object detection. Behavioural Brain Research, 2019, 362, 224-239.	1.2	17
50	Analysis of the Effects of High-Voltage Transmission Line on Human Stress and Attention Through Electroencephalography (EEG). Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 211-218.	1.5	1
51	An MLP-based representation of neural tensor networks for the RDF data models. Neural Computing and Applications, 2019, 31, 1135-1144.	3.2	9
52	Make Intelligent of Gastric Cancer Diagnosis Error in Qazvin's Medical Centers: Using Data Mining Method. Asian Pacific Journal of Cancer Prevention, 2019, 20, 2607-2610.	0.5	10
53	Constrained optimal consensus in dynamical networks. Numerical Algebra, Control and Optimization, 2019, 9, 349-360.	1.0	2
54	A robust neuro-based adaptive control system design for a surface effect ship with uncertain dynamics and input saturation to cargo transfer at sea. Applied Ocean Research, 2018, 74, 59-68.	1.8	10

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55	Minimum phase output determination for a desired relative degree: a constructive approach. International Journal of Dynamics and Control, 2018, 6, 1592-1598.	1.5	Ο
56	Formation control of VTOL UAV vehicles under switching-directed interaction topologies with disturbance rejection. International Journal of Control, 2018, 91, 33-44.	1.2	31
57	Non-rigid Load Transportation by Multiple Quadrotors. , 2018, , .		2
58	A novel scheme for output definition in feedback passivation of nonlinear systems. International Journal of Systems Science, 2018, 49, 3196-3201.	3.7	4
59	Adaptive consensus for high-order unknown nonlinear multi-agent systems with unknown control directions and switching topologies. Information Sciences, 2018, 459, 224-237.	4.0	28
60	Adaptive output stationary average consensus for heterogeneous unknown linear multiâ€agent systems. IET Control Theory and Applications, 2018, 12, 847-856.	1.2	16
61	Finiteâ€ŧime distributed global optimal control for linear timeâ€varying multiâ€agent systems: a dynamic outputâ€feedback perspective. IET Control Theory and Applications, 2018, 12, 1267-1275.	1.2	9
62	Distributed Fault Detection and Isolation of Actuator Faults in Multi-agent Systems with Complex-Weights Directed Communication Topology. Journal of Control, Automation and Electrical Systems, 2018, 29, 692-702.	1.2	8
63	Stationary average consensus protocol for a class of heterogeneous high-order multi-agent systems with application for aircraft. International Journal of Systems Science, 2018, 49, 284-298.	3.7	12
64	Stability analysis of recurrent type-2 TSK fuzzy systems with nonlinear consequent part. Neural Computing and Applications, 2017, 28, 47-56.	3.2	23
65	Stability Analysis of a Class of MIMO Recurrent Type-2 Fuzzy Systems. International Journal of Fuzzy Systems, 2017, 19, 895-908.	2.3	17
66	A new approach for minimum phase output definition. International Journal of Systems Science, 2017, 48, 264-271.	3.7	8
67	Performance Limitations of Nonminimum Phase Affine Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 6430-6437.	3.6	3
68	EXPLICA: An Explorative Imperialist Competitive Algorithm based on the notion of Explorers with an expansive retention policy. Applied Soft Computing Journal, 2017, 54, 74-92.	4.1	15
69	Stationary average consensus for highâ€order multiâ€agent systems. IET Control Theory and Applications, 2017, 11, 723-731.	1.2	22
70	Sliding mode control for formation stabilization of thrust-propelled vehicles with switching topologies and unknown time-varying disturbances. , 2017, , .		3
71	Trajectory tracking of a class of under-actuated thrust-propelled vehicle with uncertainties and unknown disturbances. Nonlinear Dynamics, 2017, 90, 1695-1706.	2.7	6
72	A modified fruit fly optimization algorithm and its application to control of robot manipulators. ,		4

2017, , . 72

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73	Breast cancer classification using covariance description in Riemannian geometry. , 2017, , .		4
74	Distributed convex optimization in networks of agents with single-integrator dynamics. , 2017, , .		2
75	Fault tolerant control in multi-agent systems subject to actuator fault. , 2016, , .		Ο
76	Synchronization of two Hindmarsh-Rose neurons with unknown parameters through adaptive output feedback controller. , 2016, , .		0
77	A cognitive based driver's steering behavior modeling. , 2016, , .		6
78	Communication free leader–follower formation control of unmanned aircraft systems. Robotics and Autonomous Systems, 2016, 80, 69-75.	3.0	49
79	Distributed coverage control for mobile robots with limited-range sector sensors. , 2016, , .		14
80	Self-localization of humanoid robots using particle swarm optimization algorithm. , 2016, , .		1
81	Detection of both positive and negative correlated rows in biclusters using Squared Transposed Virtual Error. , 2016, , .		0
82	High-gain observer-based identification scheme for estimation of physical parameters of synchronous generators. , 2016, , .		3
83	H <inf>â^ž</inf> output feedback controller design for flexible needles guidance. , 2016, , .		0
84	Solving nonlinear ordinary differential equations using neural networks. , 2016, , .		6
85	A new similarity measure based on item proximity and closeness for collaborative filtering recommendation. , 2016, , .		7
86	Design of a fuzzy controller for delayed and high-order systems using particle swarm optimization. , 2016, , .		0
87	Leader-follower formation control using an onboard leader tracker. , 2016, , .		4
88	Improving the performance of P300-based brain-computer interface. , 2016, , .		0
89	Robust fault detection on boiler-turbine unit actuators using dynamic neural networks. , 2016, , .		0
90	Weakly and strongly non-minimum phase systems: properties and limitations. International Journal of Control, 2016, 89, 306-321.	1.2	5

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91	A supervisory control strategy for visibility maintenance inthe leader-follower formation. , 2015, , .		2
92	Optimal DG placement and capacity allocation using intelligent algorithms. , 2015, , .		8
93	Introducing the Fuzzy Relational Hybrid Model as a Building Block for Intelligent Modeling of Hybrid Dynamical Systems. IEEE Transactions on Fuzzy Systems, 2015, 23, 1971-1983.	6.5	6
94	Introducing \$\$g\$\$ g -normal fuzzy relational models. Soft Computing, 2015, 19, 2163-2171.	2.1	6
95	Tool position tracking control of a nonlinear uncertain flexible robot manipulator by using robust H2/Hâ^ž controller via T–S fuzzy model. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 307-333.	0.8	23
96	Workspace determination of planar parallel robots via progressive growing neural gas network. , 2014, , .		2
97	Coverage control in non-convex environment considering unknown non-convex obstacles. , 2014, , .		9
98	Construction and applications of a modified Fuzzy Relational Model. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1547-1555.	0.8	7
99	Constrained distributed estimation based on consensus algorithm for mobile robots tracking. , 2014, , \cdot		4
100	Construction and control of monocopter using MEMS AHRS. , 2014, , .		6
101	Solution of forward kinematics in Stewart platform using six rotary sensors on joints of three legs. Advanced Robotics, 2014, 28, 27-37.	1.1	11
102	Identification of flexible link by a novel recursive maximum likelihood method. , 2014, , .		0
103	Control of leader–follower formation and path planning of mobile robots using Asexual Reproduction Optimization (ARO). Applied Soft Computing Journal, 2014, 14, 563-576.	4.1	45
104	Robust control of wheel slip in anti-lock brake system of automobiles. Nonlinear Dynamics, 2014, 76, 125-138.	2.7	19
105	Artificial Neural Network–Based System Identification for a Single-Shaft Gas Turbine. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	0.5	44
106	A robust scene descriptor based on largest singular values for cortex-like mechanisms. , 2013, , .		2
107	Fuzzy robust control of MIMO nonlinear uncertain systems. , 2013, , .		0
108	A new feature extraction based on advanced PCA for real time face recognition. , 2013, , .		0

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109	Adaptive control of a wind turbine based on neural networks. , 2013, , .		1
110	Model-free fuzzy leader-follower formation control of fixed wing UAVs. , 2013, , .		21
111	Fuzzy model predictive control based on modified fuzzy relational model. , 2013, , .		4
112	A hybrid method for effective management of the uncertainty in army decision making using cognitive agents and Classification based on Fuzzy Association Rules. , 2013, , .		0
113	Position and Current Control of an Interior Permanent-Magnet Synchronous Motor by Using Loop-Shaping Methodology: Blending of Hâ^ž Mixed-Sensitivity Problem and T–S Fuzzy Model Scheme. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	13
114	Robust H <inf>2</inf> /H <inf>∞</inf> control for a robot manipulator fuzzy system. , 2013, , .		1
115	Robust neural predictive control of normalized air-to-fuel ratio in internal combustion engines. , 2013, , .		1
116	Optimal control of fractional-order singular system via Block pulse functions. , 2012, , .		4
117	Reconfiguration-Based Fault Tolerant Control of Dynamical Systems: A Control Reallocation Approach. IEICE Transactions on Information and Systems, 2012, E95.D, 1074-1083.	0.4	1
118	Coverage control in unknown environments using neural networks. Artificial Intelligence Review, 2012, 38, 237-255.	9.7	14
119	Dynamic average consensus via nonlinear protocols. Automatica, 2012, 48, 2262-2270.	3.0	85
120	Introducing the fuzzy relational extended composition and its usage in fuzzy relational modeling. , 2012, , .		1
121	Robust Mixed-Sensitivity Gain-Scheduled H <inf>∞</inf> tracking control of a nonlinear Time-Varying IPMSM via a T-S fuzzy model. , 2012, , .		3
122	PINNING IMPULSIVE SYNCHRONIZATION OF COMPLEX DYNAMICAL NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250239.	0.7	60
123	Centralized Receding Horizon Coverage Control for Mobile Sensory Networks. , 2012, , .		5
124	Distributed Receding Horizon Coverage Control for Mobile Sensory Networks. , 2012, , .		4
125	A Fuzzy Logic-Based Video Subtitle and Caption Coloring System. Advances in Fuzzy Systems, 2012, 2012, 1-8.	0.6	2
126	From Nonlinear to Fuzzy Approaches in Trajectory Tracking Control of Wheeled Mobile Robots. Asian Journal of Control. 2012, 14, 960-973.	1.9	37

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127	Distributed density estimation in sensor networks based on variational approximations. International Journal of Systems Science, 2011, 42, 1445-1457.	3.7	8
128	Evaluation of two-diode-model of a solar panel in a wide range of environmental conditions. International Journal of Electronics, 2011, 98, 357-377.	0.9	7
129	Distributed model predictive control and virtual force obstacle avoidance for formation of nonholonomic agents. , 2011, , .		1
130	Hybrid model predictive control of legless piezo capsubot. , 2011, , .		2
131	Decentralized adaptive control of large-scale non-affine nonlinear systems using wavelet networks. , 2011, , .		Ο
132	Exploration strategies in n-Person general-sum multiagent reinforcement learning with sequential action selection. Intelligent Data Analysis, 2011, 15, 913-929.	0.4	0
133	Structure Learning in Bayesian Networks Using Asexual Reproduction Optimization. ETRI Journal, 2011, 33, 39-49.	1.2	10
134	Decentralized Coverage Control for Multi-Agent Systems with Nonlinear Dynamics. IEICE Transactions on Information and Systems, 2011, E94-D, 3-10.	0.4	6
135	Modeling uncertainties in sodium spatial dispersion using a computational intelligence-based kriging method. Computers and Geosciences, 2011, 37, 1545-1554.	2.0	10
136	A new set of sufficient conditions based on coupling parameters for synchronization of Hopfield like Chaotic Neural Networks. International Journal of Control, Automation and Systems, 2011, 9, 104-111.	1.6	18
137	ARO: A new model free optimization algorithm for real time applications inspired by the asexual reproduction. Expert Systems With Applications, 2011, 38, 4866-4874.	4.4	18
138	A distributed EM algorithm to estimate the parameters of a finite mixture of components. Knowledge and Information Systems, 2010, 23, 267-292.	2.1	24
139	Numerical solution of fuzzy relational equations based on smooth fuzzy norms. Soft Computing, 2010, 14, 545-557.	2.1	11
140	ARO: A new model-free optimization algorithm inspired from asexual reproduction. Applied Soft Computing Journal, 2010, 10, 1284-1292.	4.1	61
141	Fuzzy decision support system for crisis management with a new structure for decision making. Expert Systems With Applications, 2010, 37, 3545-3552.	4.4	21
142	Non-affine nonlinear adaptive control of decentralized large-scale systems using neural networks. Information Sciences, 2010, 180, 3335-3347.	4.0	60
143	Maximizing Output Power of a Solar Panel via Combination of Sun Tracking and Maximum Power Point Tracking by Fuzzy Controllers. International Journal of Photoenergy, 2010, 2010, 1-13.	1.4	28
144	ASSESSMENT OF GROUND REACTION FORCES OF STEPPAGE GAIT IN COMPARISON WITH NORMAL GAIT. Journal of Musculoskeletal Research, 2009, 12, 45-52.	0.1	9

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145	Numerical solution of Helmholtz equation by the modified Hopfield finite difference techniques. Numerical Methods for Partial Differential Equations, 2009, 25, 637-656.	2.0	17
146	A Distributed Variational Bayesian Algorithm for Density Estimation in Sensor Networks. IEICE Transactions on Information and Systems, 2009, E92-D, 1037-1048.	0.4	9
147	A Novel Robust Impulsive Chaos Synchronization Approach for Uncertain Complex Dynamical Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 2499-2507.	0.2	4
148	An MLP neural network for time delay prediction in networked control systems. , 2008, , .		15
149	Neural-network-based simulation-optimization model for water allocation planning at basin scale. Journal of Hydroinformatics, 2008, 10, 331-343.	1.1	33
150	Using Weighted Information for Customer Knowledge Management: A Case Study. , 2008, , .		0
151	Multiple Target Tracking for Mobile Robots Using the JPDAF Algorithm. , 2007, , .		7
152	Optimal model detection in distributed sensor networks using genetic-fuzzy clustering. , 2007, , .		3
153	An Extension to Zadeh's Truth Qualification Principle for Resolution of Self-Referential Sentences: Towards a Comprehensive Theory of Type-2 Fuzzy Possibility. , 2006, , .		0
154	Decentralized robust adaptive load frequency control using interactions estimation. Electrical Engineering, 2003, 85, 219-227.	1.2	14
155	Decentralized robust adaptive-output feedback controller for power system load frequency control. Electrical Engineering, 2002, 84, 75-83.	1.2	38
156	Training feedforward networks with the Marquardt algorithm. IEEE Transactions on Neural Networks, 1994, 5, 989-993.	4.8	5,993
157	Neural iterative learning identifierâ€based iterative learning controller for timeâ€varying nonlinear systems. Asian Journal of Control, 0, , .	1.9	0
158	Modern control design for MEMS tunable capacitors in voltage reference applications: a comparative study. International Journal of Dynamics and Control, 0, , 1.	1.5	0
159	A g-Normal fuzzy relational hybrid model based control design for hybrid systems with continuous-valued inputs. JVC/Journal of Vibration and Control, 0, , 107754632210934.	1.5	Ο