Behzad Moshiri

List of Publications by Year
in descending order

154 papers	2,001 citations	257357 24 h-index	330025 37 g-index
155 all docs	155 docs citations	155 times ranked	2169 citing authors

#	Article	IF	Citations
1	Optimal control of a nonlinear fed-batch fermentation process using model predictive approach. Journal of Process Control, 2009, 19, 1162-1173.	1.7	132
2	A comparative assessment of multi-sensor data fusion techniques for freeway traffic speed estimation using microsimulation modeling. Transportation Research Part C: Emerging Technologies, 2013, 26, 33-48.	3.9	77
3	Hâˇž control of parameter-dependent state-delayed systems using polynomial parameter-dependent quadratic functions. International Journal of Control, 2005, 78, 254-263.	1.2	71
4	Fusing a Bluetooth Traffic Monitoring System With Loop Detector Data for Improved Freeway Traffic Speed Estimation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2013, 17, 152-164.	2.6	70
5	Forecasting of short-term traffic-flow based on improved neurofuzzy models via emotional temporal difference learning algorithm. Engineering Applications of Artificial Intelligence, 2012, 25, 1022-1042.	4.3	69
6	Haar Wavelet-Based Approach for Optimal Control of Second-Order Linear Systems in Time Domain. Journal of Dynamical and Control Systems, 2005, 11, 237-252.	0.4	57
7	A computational method for solving optimal control and parameter estimation of linear systems using Haar wavelets. International Journal of Computer Mathematics, 2004, 81, 1121-1132.	1.0	55
8	Prediction of protein submitochondria locations based on data fusion of various features of sequences. Journal of Theoretical Biology, 2011, 269, 208-216.	0.8	53
9	Aggregation of web search engines based on usersâ€™ preferences in WebFusion. Knowledge-Based Systems, 2007, 20, 321-328.	4.0	50
10	Anomaly detection using a self-organizing map and particle swarm optimization. Scientia Iranica, 2011, 18, 1460-1468.	0.3	50
11	A New Fusion Estimation Method for Multi-Rate Multi-Sensor Systems With Missing Measurements. IEEE Access, 2020, 8, 47522-47532.	2.6	45
12	Numerically efficient approximations to the optimal control of linear singularly perturbed systems based on Haar wavelets. International Journal of Computer Mathematics, 2005, 82, 495-507.	1.0	42
13	Investigating the validity of conventional joint set clustering methods. Engineering Geology, 2011, 118, 75-81.	2.9	41
14	A novel approach proposed for fractured zone detection using petrophysical logs. Journal of Geophysics and Engineering, 2009, 6, 365-373.	0.7	38
15	Weighted and constrained possibilistic C-means clustering forÂonline fault detection and isolation. Applied Intelligence, 2011, 35, 269-284.	3.3	38
16	A reinforcement learning approach for waterflooding optimization in petroleum reservoirs. Engineering Applications of Artificial Intelligence, 2019, 77, 98-116.	4.3	36
17	Fracture detection from water saturation log data using a Fourierâ€"wavelet approach. Journal of Petroleum Science and Engineering, 2009, 69, 129-138.	2.1	34
18	Trunk Motion System (TMS) Using Printed Body Worn Sensor (BWS) via Data Fusion Approach. Sensors, 2017, 17, 112.	2.1	33

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19	A protein fold classifier formed by fusing different modes of pseudo amino acid composition via PSSM. Computational Biology and Chemistry, 2011, 35, 1-9.	1.1	31
20	A GIS-based multi-criteria analysis model for earthquake vulnerability assessment using Choquet integral and game theory. Natural Hazards, 2017, 87, 1377-1398.	1.6	31
21	A GIS-based multi-criteria decision-making approach for seismic vulnerability assessment using quantifier-guided OWA operator: a case study of Tehran, Iran. Annals of GIS, 2015, 21, 209-222.	1.4	30
22	Process fault isolation based on transfer entropy algorithm. ISA Transactions, 2014, 53, 230-240.	3.1	27
23	Pseudo information measure: a new concept for extension of Bayesian fusion in robotic map building. Information Fusion, 2002, 3, 51-68.	11.7	26
24	Improve text classification accuracy based on classifier fusion methods. , 2007, , .		26
25	Alleviating the cold-start problem of recommender systems using a new hybrid approach. , 2010, , .		25
26	LTV-MPC based path planning of an autonomous vehicle via convex optimization. , 2013, , .		24
27	PEM Stochastic Modeling for MEMS Inertial Sensors in Conventional and Redundant IMUs. IEEE Sensors Journal, 2014, 14, 2019-2027.	2.4	24
28	The application of multilayer perceptron neural network in volume of clay estimation: Case study of Shurijeh gas reservoir, Northeastern Iran. Journal of Natural Gas Science and Engineering, 2015, 22, 119-131.	2.1	24
29	Short-term traffic flow forecasting: parametric and nonparametric approaches via emotional temporal difference learning. Neural Computing and Applications, 2013, 23, 141-159.	3.2	20
30	Control performance assessment based on sensor fusion techniques. Control Engineering Practice, 2016, 49, 14-28.	3.2	20
31	Swarm Clustering Based on Flowers Pollination by Artificial Bees. Studies in Computational Intelligence, 2006, , 191-202.	0.7	19
32	Applications of Haptic Technology, Virtual Reality, and Artificial Intelligence in Medical Training During the COVID-19 Pandemic. Frontiers in Robotics and AI, 2021, 8, 612949.	2.0	19
33	Introducing adaptive neurofuzzy modeling with online learning method for prediction of time-varying solar and geomagnetic activity indices. Expert Systems With Applications, 2010, 37, 8267-8277.	4.4	18
34	A Hybrid Approach to Predict Churn. , 2010, , .		18
35	Quantitative analysis of the clay minerals in the Shurijeh Reservoir Formation using combined X-ray analytical techniques. Russian Geology and Geophysics, 2016, 57, 1048-1063.	0.3	18
36	Recursive spectral analysis of natural time series based on eigenvector matrix perturbation for online applications. IET Signal Processing, 2011, 5, 515.	0.9	17

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37	Fusing Unscented Kalman Filter to Detect and Isolate Sensor Faults in DC Microgrids With CPLs. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	2.4	17
38	Evidence theoretic protein fold classification based on the concept of hyperfold. Mathematical Biosciences, 2012, 240, 148-160.	0.9	16
39	Application of temporal difference learning rules in short–term traffic flow prediction. Expert Systems, 2015, 32, 49-64.	2.9	16
40	Online monitoring of transit-time ultrasonic flowmeters based on fusion of optical observation. Measurement: Journal of the International Measurement Confederation, 2011, 44, 1028-1037.	2.5	15
41	Distributed maximum likelihood estimation for flow and speed density prediction in distributed traffic detectors with Gaussian mixture model assumption. IET Intelligent Transport Systems, 2012, 6, 215.	1.7	15
42	Skew redundant MEMS IMU calibration using a Kalman filter. Measurement Science and Technology, 2015, 26, 105002.	1.4	15
43	Application of Fuzzy Classifier Fusion in Determining Productive Zones in Oil Wells. Energy Exploration and Exploitation, 2012, 30, 403-415.	1.1	14
44	Second-order EKF and Unscented Kalman Filter Fusion for Tracking Maneuvering Targets. , 2007, , .		13
45	Short-term traffic flow forecasting by mutual information and artificial neural networks. , 2012, , .		13
46	Feature-based fault detection of industrial gas turbines using neural networks. Turkish Journal of Electrical Engineering and Computer Sciences, 2013, , 1340-1350.	0.9	13
47	Traffic Flow Prediction Using MI Algorithm and Considering Noisy and Data Loss Conditions: An Application to Minnesota Traffic Flow Prediction. Promet - Traffic - Traffico, 2014, 26, 393-403.	0.3	13
48	Survey on location information services for Vehicular Communication Networks. Wireless Networks, 2014, 20, 1085-1105.	2.0	13
49	Learning by abstraction: Hierarchical classification model using evidential theoretic approach and Bayesian ensemble model. Neurocomputing, 2014, 130, 73-82.	3.5	13
50	Adaptive modeling of waterflooding process in oil reservoirs. Journal of Petroleum Science and Engineering, 2016, 146, 702-713.	2.1	12
51	Real-time management of the waterflooding process using proxy reservoir modeling and data fusion theory. Computers and Chemical Engineering, 2017, 106, 339-354.	2.0	12
52	Multisensor Data Integration and Fusion in Traffic Operations and Management. Transportation Research Record, 2012, 2308, 27-36.	1.0	11
53	Demand satisfaction in supply chain management system using a full online optimal control method. International Journal of Advanced Manufacturing Technology, 2015, 77, 1401-1417.	1.5	11
54	A systematic approach for modeling of waterflooding process in the presence of geological uncertainties in oil reservoirs. Computers and Chemical Engineering, 2018, 111, 66-78.	2.0	11

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55	irBlogs: A standard collection for studying Persian bloggers. Computers in Human Behavior, 2016, 57, 195-207.	5.1	10
56	Auto-Calibration and Fault Detection and Isolation of Skewed Redundant Accelerometers in Measurement While Drilling Systems. Sensors, 2018, 18, 702.	2.1	10
57	Sensor fusion by pseudo information measure: A mobile robot application. ISA Transactions, 2002, 41, 283-301.	3.1	9
58	Performance Benefits of Hybrid Control Design for Switched Linear Systems. , 2006, , .		9
59	A new algorithm for general asynchronous sensor bias estimation in multisensor-multitarget systems. , 2007, , .		9
60	A new expertness index for assessment of secondary structure prediction engines. Computational Biology and Chemistry, 2007, 31, 44-47.	1.1	9
61	Real time adaptive non-linear estimator/predictor design for traffic systems with inadequate detectors. IET Intelligent Transport Systems, 2014, 8, 308-321.	1.7	9
62	Low-complexity control of hybrid systems using approximate multi-parametric MILP. Automatica, 2016, 63, 292-301.	3.0	9
63	Reducing the Bullwhip effect in a supply chain network by application of optimal control theory. RAIRO - Operations Research, 2018, 52, 1377-1396.	1.0	9
64	Predictive models and detection methods applicable in water detection framework for industrial electric arc furnaces. Computers and Chemical Engineering, 2019, 128, 285-300.	2.0	9
65	Leak Detection in Transportation Pipelines Using Feature Extraction and KNN Classification. , 2009, , .		8
66	GPS/INS integration using nonlinear blending filters. , 2007, , .		7
67	Identification and model predictive control of continuous stirred tank reactor based on artificial neural networks. , 2011, , .		7
68	Online Multi-step Ahead Prediction of Time-Varying Solar and Geomagnetic Activity Indices via Adaptive Neurofuzzy Modeling and Recursive Spectral Analysis. Solar Physics, 2011, 272, 189-213.	1.0	7
69	Novel dynamic model for aerated shaking bioreactors. Biotechnology and Applied Biochemistry, 2011, 58, 128-137.	1.4	7
70	Emotional temporal difference Q â€‘learning signals in multiâ€‘agent system cooperation: real case studies. IET Intelligent Transport Systems, 2013, 7, 315-326.	1.7	7
71	Decentralized Fault Isolation by a Combination of Transfer Entropy and Classification Methods. Chemical Engineering Communications, 2015, 202, 1131-1144.	1.5	7
72	A new predictive motion control of a planar vehicle under uncertainty via convex optimization. International Journal of Control, Automation and Systems, 2017, 15, 129-137.	1.6	7

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73	Pedestrian Detection Using Image Fusion and Stereo Vision in Autonomous Vehicles. , 2018, , .		7
74	Protein Secondary Structure Classifiers Fusion Using OWA. Lecture Notes in Computer Science, 2005, , 338-345.	1.0	7
75	Improved Pose Estimation for Mobile Robots by Fusion of Odometry Data and Environment Map. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 36, 89-108.	2.0	6
76	Architecture design of an intelligent information fusion agent for information retrieval from dynamic environments. , 2007, , .		6
77	Multiphase Pipeline Leak Detection Based on Fuzzy Classification. , 2009, , .		6
78	A novel detection and navigation approach based on OWA fusion method. Sensor Review, 2011, 31, 328-340.	1.0	6
79	Genetic Algorithm Based Parameter Tuning of Adaptive LQR-Repetitive Controllers with Application to Uninterruptible Power Supply Systems. Lecture Notes in Computer Science, 2004, , 583-593.	1.0	5
80	A new approach for text feature selection based on OWA operator. , 2010, , .		5
81	Multi criteria decision making (MCDM): A modified partial order theory (POT) approach. , 2011, , .		5
82	Estimation of free flow speed and critical density in a segmented freeway using missing data and Monte Carlo-based expectation maximisation algorithm. IET Control Theory and Applications, 2011, 5, 123.	1.2	5
83	Learning to rank: new approach with the layered multi-population genetic programming on click-through features. Genetic Programming and Evolvable Machines, 2016, 17, 203-230.	1.5	5
84	Sensing Structure for Blind Spot Detection System in Vehicles. , 2019, , .		5
85	Mixed H/Passivity controller design through LMI approach applicable for waterflooding optimization in the presence of geological uncertainty. Computers and Chemical Engineering, 2020, 142, 107055.	2.0	5
86	Activity Recognition In Smart Home Using Weighted Dempster-Shafer Theory. International Journal of Smart Home, 2013, 7, 23-34.	0.6	5
87	Stability Analysis of Smooth Positive Fuzzy Systems. , 2020, , .		5
88	Design of robust sub-optimal nonlinear Hâˆž controllers with some applications. Communications in Nonlinear Science and Numerical Simulation, 2007, 12, 1053-1067.	1.7	4
89	Integration of data fusion and reinforcement learning techniques for the rank-aggregation problem. International Journal of Machine Learning and Cybernetics, 2016, 7, 1131-1145.	2.3	4
90	Cyber Security Challenges in Autonomous Vehicle: Their Impact on RF Sensor and Wireless Technologies. , 2018, , .		4

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91	Robust switching signal estimation for a class of uncertain nonlinear switched systems. International Journal of Control, 2019, 92, 1094-1102.	1.2	4
92	Adaptation of Personality-Based Decision Making to Crowd Behavior Simulations. Lecture Notes in Computer Science, 2008, , 385-389.	1.0	4
93	Fuzzy Adaptive Control of a Knee-Joint Orthosis for the Smooth Tracking. , 2020, , .		4
94	Inner Supervision in Multi-Sensor Data Fusion Using the Concepts of Stackelberg Games. , 2006, , .		3
95	Modified LOLIMOT algorithm for nonlinear centralized Kalman filtering fusion. , 2007, , .		3
96	Fusing Data and Optimizing Queries for Intelligent Search. , 2007, , .		3
97	A New Stabilizing Control Law with Respect to a Control Lyapunov Function and Construction of Control Lyapunov Function for Particular Nonaffine Nonlinear Systems. Journal of Dynamical and Control Systems, 2007, 13, 563-576.	0.4	3
98	Select Reliable Strategy in Multi-Agent Systems Using Fuzzy Logic-Based Fusion. , 2008, , .		3
99	Fuzzy image fusion application in detecting coronary layers in IVUS pictures. , 2008, , .		3
100	Adaptive generalized predictive control and model reference adaptive control for CSTR Reactor. , 2010, , .		3
101	Shared Situation Awareness System Architecture for Network Centric Environment Decision Making. , 2010, , .		3
102	CF-Rank: Learning to rank by classifier fusion on click-through data. Expert Systems With Applications, 2015, 42, 8597-8608.	4.4	3
103	Learning to rank with click-through features in a reinforcement learning framework. International Journal of Web Information Systems, 2016, 12, 448-476.	1.3	3
104	Heats and input variables selection for designing a water detection framework applicable to industrial electric arc furnaces. Canadian Journal of Chemical Engineering, 2020, 98, 2096-2108.	0.9	3
105	Training Error Approximation Through the State-Space Representation of the Fuzzy Model. , 2021, , .		3
106	Location-aware hazardous litter management for smart emergency governance in urban eco-cyber-physical systems. Multimedia Tools and Applications, 2022, , 1-30.	2.6	3
107	State Estimation Fusion for Linear Microgrids over an Unreliable Network. Energies, 2022, 15, 2288.	1.6	3
108	Integral backstepping Lyapunov redesign control of uncertain nonlinear systems. IET Control Theory and Applications, 2022, 16, 330-339.	1.2	3

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109	Design of a Robust Sliding Mode Fuzzy Controller for Nonlinear HVAC Systems. Lecture Notes in Computer Science, 2004, , 984-989.	1.0	2
110	Improvement of Low Frequency Oscillation Damping in Power Systems via an Adaptive Critic Based NeuroFuzzy Controller. Lecture Notes in Computer Science, 2004, , 559-565.	1.0	2
111	A Modified LOLIMOT Algorithm for Nonlinear Estimation Fusion. , 2007, , .		2
112	Robustness Assessment of Intelligent Information Fusion Techniques in Navigation Systems Encountering Satellite Outage. , 2007, , .		2
113	Designing a home security system using sensor data fusion with DST and DSmT methods. , 2007, , .		2
114	Tutorial A: Sensor data fusion, principles and applications. , 2010, , .		2
115	A data fusion approach for multi-camera based visual servoing. , 2010, , .		2
116	Using data fusion for scoring reliability of protein–protein interactions. Journal of Bioinformatics and Computational Biology, 2014, 12, 1450014.	0.3	2
117	Cooperative control of networked autonomous vehicles using convex optimization. , 2015, , .		2
118	Temporal-aware rate allocation in mission-oriented WSNs with sum-rate demand guarantee. Computer Communications, 2015, 59, 52-66.	3.1	2
119	An image segmentation based algorithm for imaging of slow slip earthquakes. Geodesy and Geodynamics, 2018, 9, 252-261.	1.0	2
120	Blind Spot Detection System in Vehicles Using Fusion of Radar Detections and Camera Verification. International Journal of Intelligent Transportation Systems Research, 2021, 19, 389-404.	0.6	2
121	On the Distributed Path Planning of Multiple Autonomous Vehicles Under Uncertainty Based on Model-Predictive Control and Convex Optimization. IEEE Systems Journal, 2021, 15, 3759-3768.	2.9	2
122	Metal-oxide-semiconductor Sensors Modeling Using Ordered Weighted Averaging (OWA) Operators in Electronic Nose. Measurement: Journal of the International Measurement Confederation, 2021, 184, 109932.	2.5	2
123	Cyber Attack Estimation of Nonlinear DC Microgrids with Noisy Measurements: Spherical Simplex Radial CKF Approach. , 2021, , .		2
124	Application of Smooth Fuzzy Model in Image Denoising and Edge Detection. Mathematics, 2022, 10, 2421.	1.1	2
125	Complexity and Size Analysis of Hybrid System Modeling with Mixed Logical Dynamical Approach. , 2006, , .		1
126	distributed estimation fusion with global track feedback using a modified LOLIMOT algorithm. , 2007, , .		1

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127	User Modeling for the Result Re-Ranking in the Meta-Search Engines via Reinforcement Learning. , 2007, , .		1
128	Real Data Testing of Model Parameter Estimation Methods for Macroscopic Traffic Flow Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 419-424.	0.4	1
129	A social network-based meta search engine. , 2010, , .		1
130	The traffic condition likelihood extraction using incomplete observation in distributed traffic loop detectors. , 2011, , .		1
131	Model free predictive control for a nonlinear biological system with intelligent optimization approach. , 2013, , .		1
132	Constraint control allocation using differential evolution for over-actuated geostationary communications satellite. , 2013, , .		1
133	A probabilistic partial order theory approach to IT infrastructure selection for Smart Grid. , 2013, , .		1
134	Multi-sensor estimation using CKF and DKF. , 2013, , .		1
135	Application of Naturalistic Decision Making to Emergency Evacuation Simulations. Lecture Notes in Computer Science, 2008, , 14-25.	1.0	1
136	Knowledgebase approximation using association rule aggregation. International Journal of Data Science and Analytics, 2022, 13, 225-237.	2.4	1
137	Suboptimal Contractive Predictive Control for a Class of Hybrid Systems. , 2006, , .		0
138	Adaptive Data Fusion Structure. , 2006, , .		0
139	An Optimization-based Framework for Route Selection in Communication Networks. , 2006, , .		0
140	DATA-BASED MODELLING OF NONLINEAR SYSTEMS USING A MODIFIED LOLIMOT ALGORITHM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 25-30.	0.4	0
141	Fusion Based Quality Control Using Intelligent Estimation and Modeling in Industrial Process Control. , 2008, , .		0
142	A NEW ONLINE DISTRIBUTED PROCESS FAULT DETECTION AND ISOLATION APPROACH USING POTENTIAL CLUSTERING TECHNIQUE. , 2009, , .		0
143	Traffic speed prediction using mutual information. , 2012, , .		0
144	A new approach for overcoming failure of current sensors in states estimation of an Induction motor. , 2012, , .		0

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145	Model predictive control with sequential linearization approach for a nonlinear time varying biological system. , 2013, , .		0
146	Active Networks and Computational Intelligence. Lecture Notes in Computer Science, 2004, , 128-134.	1.0	0
147	Application of OWA Based Classifier Fusion in Diagnosis and Treatment offering for Female Urinary Incontinence. Lecture Notes in Computer Science, 2006, , 433-442.	1.0	0
148	A Web 2.0 Approach for Organizing Search Results Using Wikipedia. Lecture Notes in Computer Science, 2011, , 215-225.	1.0	0
149	Road Scene Image Segmentation Based on Feature Fusion. , 2020, , .		0
150	Distributed Data Clustering Based on Flowers Pollination by Artificial Bees. , 2005, , 959-966.		0
151	Applying Data Fusion in a Rational Decision Making with Emotional Regulation. , 2007, , 320-331.		0
152	Robots Learn Visual Pouring Task Using Deep Reinforcement Learning with Minimal Human Effort. , 2021, , .		0
153	User Modeling for the Result Re-Ranking in the Meta-Search Engines via Reinforcement Learning. , 2007, , .		0
154	Real-Time Pedestrian Detection Using Enhanced Representations from Light-Weight YOLO Network. , 2022, , .		0