Ali Ghaffari

List of Publications by Year
in descending order

44 papers	637 citations	759233 12 h-index	677142 22 g-index
44 all docs	44 docs citations	44 times ranked	579 citing authors

#	Article	IF	Citations
1	A Modified Car-Following Model Based on a Neural Network Model of the Human Driver Effects. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1440-1449.	2.9	147
2	A historical review on lateral and longitudinal control of autonomous vehicle motions. , 2010, , .		73
3	New segmentation and feature extraction algorithm for classification of white blood cells in peripheral smear images. Scientific Reports, 2021, 11, 19428.	3.3	42
4	A modified dynamical formulation for two-wheeled self-balancing robots. Nonlinear Dynamics, 2016, 83, 217-230.	5.2	27
5	Nonlinear robust fault diagnosis of power plant gas turbine using Monte Carlo-based adaptive threshold approach. ISA Transactions, 2020, 100, 171-184.	5.7	25
6	The stability of limit cycles in nonlinear systems. Nonlinear Dynamics, 2009, 56, 269-275.	5.2	21
7	Design of an improved fuzzy logic based model for prediction of car following behavior. , 2011, , .		21
8	An intelligent approach to the lateral forces usage in controlling the vehicle yaw rate. Asian Journal of Control, 2011, 13, 213-231.	3.0	20
9	Improved adaptive neuro fuzzy inference system carâ€following behaviour model based on the driverâ€"vehicle delay. IET Intelligent Transport Systems, 2014, 8, 323-332.	3.0	18
10	The effect of a lane change on a car-following manoeuvre: anticipation and relaxation behaviour. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 809-818.	1.9	18
11	Performance Comparison between Steam Injected Gas Turbine and Combined Cycle during Frequency Drops. Energies, 2015, 8, 7582-7592.	3.1	17
12	Calculating the Frequency of Oscillation for Servo Axes Distressed by Clearance or Preloading. IEEE/ASME Transactions on Mechatronics, 2013, 18, 922-931.	5.8	16
13	New fuzzy solution for determining anticipation and evaluation behavior during car-following maneuvers. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 936-945.	1.9	16
14	Control strategy in hybrid electric vehicle using fuzzy logic controller. , 2009, , .		15
15	Modeling and intelligent control design of car following behavior in real traffic flow. , 2010, , .		14
16	Sequential quadratic programming and analytic hierarchy process for nonlinear multiobjective optimization of a hydropower network. Optimal Control Applications and Methods, 2010, 31, 351-364.	2.1	13
17	Cavity Control of Prefoldin Nano Actuator (PNA) by Temperature and pH. Nano-Micro Letters, 2012, 4, 110-117.	27.0	12
18	Modeling of Double Lane Change Maneuver of Vehicles. International Journal of Automotive Technology, 2018, 19, 271-279.	1.4	12

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19	Nonlinear estimator design based on extended Kalman filter approach for state estimation of articulated heavy vehicle. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2019, 233, 254-265.	0.8	12
20	Identifying a simplified model for heavy duty gas turbine. Journal of Mechanical Science and Technology, 2014, 28, 2399-2408.	1.5	11
21	Improving the Transient Performance of the Gas Turbine by Steam Injection during Frequency Dips. Energies, 2013, 6, 5283-5296.	3.1	10
22	Non-linear optimal control of articulated-vehicle planar motion based on braking utilizing the state-dependent Riccati equation method. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 1774-1787.	1.9	8
23	The effect of finite duration inputs on the dynamics of a system: Proposing a new approach for cancer treatment. International Journal of Biomathematics, 2015, 08, 1550036.	2.9	7
24	ANFIS based modeling for overtaking maneuver trajectory in motorcycles and autos. , 2011, , .		6
25	Modify car following model by human effects based on Locally Linear Neuro Fuzzy. , 2011, , .		6
26	Longitudinal and lateral movement control of car following maneuver using fuzzy sliding mode control. , 2014, , .		6
27	Image Based High-Level Control System Design for Steering and Controlling of an Active Capsule Endoscope. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 94, 115-134.	3.4	6
28	Simultaneous Intelligent Anticipation and Control of Follower Vehicle Observing Exiting Lane Changer. IEEE Transactions on Vehicular Technology, 2021, 70, 8567-8577.	6.3	6
29	A Linearization Approach in Control of PWM-Driven Servo-Pneumatic Systems. System Theory, Proceedings of the Southeastern Symposium on, 2008, , .	0.0	5
30	Development of a novel nonlinear estimator based on state-dependent Riccati equation technique for articulated vehicles. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2019, 233, 516-530.	0.8	5
31	Cancer dynamics for identical twin brothers. Theoretical Biology and Medical Modelling, 2012, 9, 4.	2.1	4
32	Paths of two-wheeled self-balancing vehicles in the horizontal plane. , 2014, , .		3
33	New imageâ€guided method for localisation of an active capsule endoscope in the stomach. IET Image Processing, 2019, 13, 2321-2327.	2.5	3
34	Fetal QRS Detection in Noninvasive Abdominal Electrocardiograms Using Principal Component Analysis and Discrete Wavelet Transforms with Signal Quality Estimation. , 2021, 11, 197-204.		3
35	Design of a unified framework for analyzing long-duration ambulatory ECG: Application for extracting QRS geometrical features. Biomedical Engineering Letters, 2011, 1, 116-128.	4.1	2
36	A predictive model of discretionary lane change behavior considering human factors in the framework of time parameters. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 1034-1046.	1.9	2

#	Article	IF	Citations
37	A swarm robotic approach to distributed object pushing using fuzzy controllers. , 2009, , .		1
38	Using the human effect in the development of soft computing car following models. , 2011, , .		1
39	Predicting the future state of a vehicle in a stop&amp;go behavior based on ANFIS models design. , 2012, , .		1
40	Intelligent control design of anticipation and relaxation behavior in real traffic flow. , 2014, , .		1
41	A nonlinear optimal control based on the SDRE technique for the two-wheeled self-balancing robot. Australian Journal of Mechanical Engineering, 2022, 20, 722-730.	2.1	1
42	Characterization of the Location and Extent of Myocardial Infarction Using Heart Vector Analysis. Cardiovascular Engineering (Dordrecht, Netherlands), 2009, 9, 6-10.	1.0	0
43	An optimal immune therapy protocol under chemotherapy regime in non-Hodgkinâ€™s lymphoma treatment. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 1417-1424.	1.6	0
44	Adaptive comfort-oriented vehicle lateral control with online controller adjustments according to driver behaviour and look-ahead dynamics. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2020, 234, 272-287.	0.8	0