Di-Hua Sun

List of Publications by Year in Descending Order

61 papers	1,014 citations	16 h-index	31 g-index
67 ext. papers	1,213 ext. citations	4 avg, IF	4.69 L-index

#	Paper	IF	Citations
61	Recognizing and Analyzing Private Car Commuters Using Big Data of Electronic Registration Identification of Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-15	6.1	1
60	A Feedback Control Method with Connected Vehicles in a Lattice Hydrodynamic Model at Highway On-Ramps. *Journal of Advanced Transportation*, **2022**, 2022, 1-11	1.9	
59	Pinning control strategy and stability analysis of mixed platoon: A cyber physical perspective. *Physica A: Statistical Mechanics and Its Applications*, **2022**, 594, 127049	3.3	0
58	Observer-Based Double Closed-Loop Control for Mixed Vehicle Groups: A Macro and Micro Perspective. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-16	6.1	0
57	Merging Sequence Optimization Based on Reverse Auction Theory and Merging Strategy with Active Trajectory Adjustment of Heterogeneous Vehicles. *Journal of Advanced Transportation*, **2022**, 2022, 1-20	1.9	
56	Producing Stable Periodic Solutions of Switched Impulsive Delayed Neural Networks Using a Matrix-Based Cubic Convex Combination Approach. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 3998-4012	10.3	0
55	Accurate and efficient vehicle detection framework based on SSD algorithm. *IET Image Processing*, **2021**, 15, 3094	1.7	3
54	The Impact of Spatial Distribution of Heterogeneous Vehicles on Performance of Mixed Platoon: A Cyber-Physical Perspective. *KSCE Journal of Civil Engineering*, **2021**, 25, 303-315	1.9	4
53	Multistability for Almost-Periodic Solutions of Takagi Sugeno Fuzzy Neural Networks With Nonmonotonic Discontinuous Activation Functions and Time-Varying Delays. *IEEE Transactions on Fuzzy Systems*, **2021**, 29, 400-414	8.3	8
52	STL-detector: Detecting City-wide Ridesharing Cars via Self-Taught Learning. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	
51	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-15	6.1	2
50	A New Lane Keeping Method Based on Human-Simulated Intelligent Control. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-12	6.1	1
49	. *IEEE Internet of Things Journal*, **2021**, 8, 11666-11677	10.7	0
48	DCFS-Based Online Driving Preferences Learning Approach with Application to Personalized Lane Keeping Controller Design. *International Journal of Automotive Technology*, **2021**, 22, 1373-1385	1.6	0
47	An extended continuum mixed traffic model. *Nonlinear Dynamics*, **2021**, 103, 1891-1909	5	3
46	A new longitudinal car-following control scheme of AVs towards the non-connected situation. *Modern Physics Letters B*, **2020**, 34, 2050135	1.6	0
45	An extended lattice hydrodynamic model with time delay based on non-lane discipline. *Modern Physics Letters B*, **2020**, 34, 2050227	1.6	1

44	Monostability and Multistability for Almost-Periodic Solutions of Fractional-Order Neural Networks With Unsaturating Piecewise Linear Activation Functions. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 5138-5152	10.3	6
43	Modeling and stability analysis of mixed traffic with conventional and connected automated vehicles from cyber physical perspective. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 551, 124217	3.3	23
42	Multistability and attraction basins of discrete-time neural networks with nonmonotonic piecewise linear activation functions. *Neural Networks*, **2020**, 122, 231-238	9.1	11
41	. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 21, 4363-4377	6.1	11
40	Finite-time and fixed-time anti-synchronization of Markovian neural networks with stochastic disturbances via switching control. *Neural Networks*, **2020**, 123, 1-11	9.1	16
39	Robust control for cooperative driving system of heterogeneous vehicles with parameter uncertainties and communication constraints in the vicinity of traffic signals. *Nonlinear Dynamics*, **2020**, 99, 1659-1674	5	2
38	CPS-Based Human-Vehicle Co-Pilot Switching Strategy Under Different Information Flow Topologies. *IEEE Access*, **2020**, 8, 125943-125952	3.5	1
37	Exponential synchronization of inertial reaction-diffusion coupled neural networks with proportional delay via periodically intermittent control. *Neurocomputing*, **2019**, 356, 195-205	5.4	14
36	An Extended Mean-Field Lattice Hydrodynamic Model With Consideration of the Average Effect of Multi-Lattice Interaction. *IEEE Access*, **2019**, 7, 168798-168804	3.5	1
35	Modeling and analyses for an extended car-following model accounting for drivers situation awareness from cyber physical perspective. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 501, 52-68	3.3	9
34	Distributed robust ({{\varvec{H}}}_{\varvec{\infty }}) control of connected eco-driving system with time-varying delay and external disturbances in the vicinity of traffic signals. *Nonlinear Dynamics*, **2018**, 92, 1829-1844	5	7
33	A new lattice hydrodynamic model with the consideration of flux change rate effect. *Nonlinear Dynamics*, **2018**, 92, 351-358	5	12
32	Cooperative driving modelling in the vicinity of traffic signals based on intelligent driver model. *IET Intelligent Transport Systems*, **2018**, 12, 1236-1242	2.4	5
31	Burgers and mKdV equation for car-following model considering drivers characteristics on a gradient highway. *Modern Physics Letters B*, **2018**, 32, 1850314	1.6	3
30	Switched Cooperative Driving Model towards Human Vehicle Copiloting Situation: A Cyberphysical Perspective. *Journal of Advanced Transportation*, **2018**, 2018, 1-11	1.9	2
29	A new control method integrated into the coupled map car-following model for suppressing traffic jams. *Nonlinear Dynamics*, **2017**, 88, 663-671	5	2
28	Traffic congestion pattern detection using an improved mcmaster algorithm **2017**,		3
27	Using CSTPNs to model traffic control CPS. *IET Software*, **2017**, 11, 116-125	1	9

26	Stability of Variable-Time Impulsive Systems with Delays via Generalized Razumikhin Technique and Application to Impulsive Neural Networks. *Neural Processing Letters*, **2017**, 47, 641	2.4	
25	Effect of explicit lane changing in traffic lattice hydrodynamic model with interruption. *Nonlinear Dynamics*, **2016**, 86, 269-282	5	19
24	Analysis of traffic flow based on car-following theory: a cyber-physical perspective. *Nonlinear Dynamics*, **2016**, 84, 881-893	5	18
23	Analysis of average density difference effect in a new two-lane lattice model. *International Journal of Modern Physics C*, **2015**, 26, 1550062	1.1	9
22	Analysis of anticipation driving effect in traffic lattice hydrodynamic model with on-ramp. *Nonlinear Dynamics*, **2015**, 81, 907-916	5	10
21	Analysis of a new two-lane lattice hydrodynamic model with consideration of the global average flux. *Nonlinear Dynamics*, **2015**, 81, 1623-1633	5	15
20	Bearing degradation state recognition based on kernel PCA and wavelet kernel SVM. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2015**, 229, 2827-2834	1.3	6
19	A New Macro Model Considering the Average Speed of Preceding Vehicles Group in CPS Environment. *Mathematical Problems in Engineering*, **2015**, 2015, 1-6	1.1	1
18	Analysis of two-lane lattice hydrodynamic model with consideration of drivers characteristics. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 422, 16-24	3.3	40
17	A new car-following model with consideration of the prevision driving behavior. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 3820-3826	3.7	40
16	Analysis of drivers' characteristics in car-following theory. *Modern Physics Letters B*, **2014**, 28, 1450191	1.6	22
15	Scheduling flexible job shop problem subject to machine breakdown with game theory. *International Journal of Production Research*, **2014**, 52, 3858-3876	7.8	32
14	On the stability analysis of microscopic traffic car-following model: a case study. *Nonlinear Dynamics*, **2013**, 74, 335-343	5	46
13	Lattice hydrodynamic traffic flow model with explicit drivers physical delay. *Nonlinear Dynamics*, **2013**, 71, 531-537	5	65
12	Study on multi-task oriented services composition and optimisation with the Multi-Composition for Each Task pattern in cloud manufacturing systems. *International Journal of Computer Integrated Manufacturing*, **2013**, 26, 786-805	4.3	62
11	A new car-following model with consideration of anticipation driving behavior. *Nonlinear Dynamics*, **2012**, 70, 1205-1211	5	91
10	Microscopic car-following model for the traffic flow: the state of the art. *Journal of Control Theory and Applications*, **2012**, 10, 133-143		57
9	Density waves in a lattice hydrodynamic traffic flow model with the anticipation effect. *Chinese Physics B*, **2012**, 21, 048901	1.2	16

List of Publications

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8	Head detection based on 21HT and circle existence model **2012**,		2
7	Adaptive Tracking and Obstacle Avoidance Control for Mobile Robots with Unknown Sliding. *International Journal of Advanced Robotic Systems*, **2012**, 9, 171	1.4	14
6	Modeling and simulation for microscopic traffic flow based on multiple headway, velocity and acceleration difference. *Nonlinear Dynamics*, **2011**, 66, 15-28	5	151
5	A continuum traffic flow model with the consideration of coupling effect for two-lane freeways. *Acta Mechanica Sinica/Lixue Xuebao*, **2011**, 27, 228-236	2	6
4	Nonlinear analysis of lattice model with consideration of optimal current difference. *Communications in Nonlinear Science and Numerical Simulation*, **2011**, 16, 4524-4529	3.7	50
3	Effect of looking backward on traffic flow in an extended multiple car-following model. *Physica A: Statistical Mechanics and Its Applications*, **2011**, 390, 631-635	3.3	58
2	A conceptual framework for dynamic manufacturing resource service composition and optimization in service-oriented networked manufacturing **2011**,		6
1	A new lattice hydrodynamic traffic flow model with a consideration of multi-anticipation effect. *Chinese Physics B*, **2011**, 20, 088902	1.2	17