Rongjun Cheng

List of Publications by Year
in descending order

92	1,844	279701 23	315616 38
papers	citations	h-index	g-index

92	92	92	332
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An extended smart driver model considering electronic throttle angle changes with memory. Chinese Physics B, 2022, 31, 010504.	0.7	0
2	Nonlinear and bifurcation analysis for a novel heterogeneous continuum model and numerical tests. Transportmetrica B, 2022, 10, 111-138.	1.4	1
3	Bifurcation analysis of an extended macro model considering time delay and anticipation effect. Physica A: Statistical Mechanics and Its Applications, 2022, 585, 126434.	1.2	6
4	Bifurcation analysis of visual angle model with anticipated time and stabilizing driving behavior. Chinese Physics B, 2022, 31, 070507.	0.7	3
5	Short-Term Travel Demand Prediction of Online Ride-Hailing Based on Multi-Factor GRU Model. Sustainability, 2022, 14, 4083.	1.6	2
6	Stability analysis of heterogeneous traffic flow influenced by memory feedback control signal. Applied Mathematical Modelling, 2022, 109, 693-708.	2.2	25
7	Stabilization Strategy of a Novel Car-Following Model with Time Delay and Memory Effect of the Driver. Sustainability, 2022, 14, 7281.	1.6	7
8	Modeling and stability analysis of cyberattack effects on heterogeneous intelligent traffic flow. Physica A: Statistical Mechanics and Its Applications, 2022, 604, 127941.	1.2	23
9	A new two-lane lattice hydrodynamic model on a curved road accounting for the empirical lane-changing rate. Engineering Computations, 2021, 38, 1532-1553.	0.7	5
10	An extended car-following model integrating average speed and electronic throttle dynamics of multiple preceding vehicles. Engineering Computations, 2021, 38, 1607-1632.	0.7	1
11	Analysis of an extended two-lane lattice hydrodynamic model considering mixed traffic flow and self-stabilization effect. Engineering Computations, 2021, 38, 58-82.	0.7	4
12	New feedback control for a novel two-dimensional lattice hydrodynamic model considering driverâ€™s memory effect. Physica A: Statistical Mechanics and Its Applications, 2021, 561, 125295.	1.2	11
13	An extended car-following model accounting for two preceding vehicles with mixed maximum velocity. Modern Physics Letters B, 2021, 35, 2150238.	1.0	3
14	Stabilization strategy of a car-following model with multiple time delays of the drivers*. Chinese Physics B, 2021, 30, 120506.	0.7	2
15	A novel two-lane lattice hydrodynamic model on a gradient road considering heterogeneous traffic flow. Modern Physics Letters B, 2021, 35, 2150340.	1.0	3
16	An extended lattice hydrodynamic model considering the average optimal velocity effect field and driverâ€™s sensory memory. Modern Physics Letters B, 2021, 35, 2150335.	1.0	4
17	Bifurcation analysis of a heterogeneous continuum traffic flow model. Applied Mathematical Modelling, 2021, 94, 369-387.	2.2	33
18	Bifurcation analysis for a novel heterogeneous continuum model considering electronic throttle angle changes with memory. Applied Mathematics and Computation, 2021, 401, 126079.	1.4	6

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19	A novel two-lane continuum model considering driverâ€™s expectation and electronic throttle effect. Modern Physics Letters B, 2021, 35, 2150385.	1.0	2
20	Bifurcation control of optimal velocity model through anticipated effect and response time-delay feedback methods. Physica A: Statistical Mechanics and Its Applications, 2021, 574, 125972.	1.2	10
21	An extended car-following model considering the effect of two-sided lateral gap with uncertain velocity on curved road. Engineering Computations, 2021, ahead-of-print, .	0.7	2
22	Analysis of a Novel Two-Dimensional Lattice Hydrodynamic Model Considering Predictive Effect. Mathematics, 2021, 9, 2464.	1.1	2
23	An extended macro model accounting for the driverâ€™s timid and aggressive attributions and bounded rationality. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 122988.	1.2	17
24	An improved car-following model considering electronic throttle dynamics and delayed velocity difference. Physica A: Statistical Mechanics and Its Applications, 2020, 558, 125015.	1.2	15
25	Analysis of a novel two-lane lattice model with consideration of density integral and relative flow information. Engineering Computations, 2020, 37, 2939-2955.	0.7	5
26	A novel lattice hydrodynamic model accounting for driverâ€™s memory effect and the difference of optimal velocity on curved road. Physica A: Statistical Mechanics and Its Applications, 2020, 559, 125023.	1.2	9
27	An Extended Car-Following Model considering the Driverâ€™s Desire for Smooth Driving and Self-Stabilizing Control with Velocity Uncertainty. Mathematical Problems in Engineering, 2020, 2020, 1-17.	0.6	2
28	Bifurcation Control in an Optimal Velocity Model via Double Time-Delay Feedback Method. IEEE Access, 2020, 8, 216162-216175.	2.6	12
29	A New Two-Lane Lattice Hydrodynamic Model considering the Traffic Interruption Probability under Honk Environment. Complexity, 2020, 2020, 1-12.	0.9	0
30	A New Continuum Model considering Driving Behaviors and Electronic Throttle Effect on a Gradient Highway. Mathematical Problems in Engineering, 2020, 2020, 1-22.	0.6	10
31	Analysis of a Novel Two-Lane Hydrodynamic Lattice Model Accounting for Driverâ€™s Aggressive Effect and Flow Difference Integral. Mathematical Problems in Engineering, 2020, 2020, 1-13.	0.6	6
32	An extended two-lane lattice hydrodynamic model for traffic flow on curved road with passing. Physica A: Statistical Mechanics and Its Applications, 2019, 533, 121915.	1.2	27
33	Effect of speed deviation and anticipation effect of flux difference in the lattice hydrodynamic model. Physica A: Statistical Mechanics and Its Applications, 2019, 531, 121751.	1.2	9
34	An extended car-following model by considering the optimal velocity difference and electronic throttle angle. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122216.	1.2	7
35	Self-stabilizing analysis of an extended car-following model with consideration of expected effect. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122423.	1.2	5
36	Nonlinear analysis of a new two-lane lattice hydrodynamic model accounting for â€œbackward lookingâ€• effect and relative flow information. Modern Physics Letters B, 2019, 33, 1950223.	1.0	7

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37	A car-following model considering the effect of electronic throttle opening angle over the curved road. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122377.	1.2	13
38	Nonlinear analysis for a modified continuum model considering electronic throttle (ET) and backward looking effect. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122362.	1.2	18
39	An extended car-following model considering driverâ€™s memory and average speed of preceding vehicles with control strategy. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 752-761.	1.2	75
40	An extended car-following model considering driverâ€™s desire for smooth driving on the curved road. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121426.	1.2	20
41	Analysis of a novel lattice hydrodynamic model considering predictive effect and flow integral. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121425.	1.2	13
42	Analysis of a novel lattice hydrodynamic model considering density integral and â€œbackward lookingâ€• effect. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 714-723.	1.2	19
43	Influences of acceleration with memory on stability of traffic flow and vehicleâ€™s fuel consumption. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 143-154.	1.2	12
44	Analysis of the historical time integral form of relative flux and feedback control in an extended lattice hydrodynamic model. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 326-334.	1.2	3
45	An improved anisotropic continuum model considering the driverâ€™s desire for steady driving. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 1449-1462.	1.2	1
46	An extended car-following model considering driverâ€™s sensory memory and the backward looking effect. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 278-289.	1.2	27
47	A new lattice hydrodynamic model accounting for the traffic interruption probability on a gradient highway. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1879-1887.	0.9	27
48	Analysis of the predictive effect and feedback control in an extended lattice hydrodynamic model. Engineering Computations, 2019, 37, 1645-1661.	0.7	2
49	Analysis of a Novel Two-Lane Lattice Hydrodynamic Model Considering the Empirical Lane Changing Rate and the Self-Stabilization Effect. IEEE Access, 2019, 7, 174725-174733.	2.6	24
50	An extended lattice hydrodynamic model considering the delayed feedback control on a curved road. Physica A: Statistical Mechanics and Its Applications, 2019, 513, 510-517.	1.2	72
51	Nonlinear analysis of an improved continuum model considering mean-field velocity difference. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 622-629.	0.9	25
52	An extended lattice hydrodynamic model considering the driverâ€™s sensory memory and delayed-feedback control. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 522-532.	1.2	35
53	An extended macro model accounting for acceleration changes with memory and numerical tests. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 270-283.	1.2	17
54	Numerical treatment for solving two-dimensional space-fractional advectionâ€“dispersion equation using meshless method. Modern Physics Letters B, 2018, 32, 1850073.	1.0	6

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55	An extended car-following model considering random safety distance with different probabilities. Modern Physics Letters B, 2018, 32, 1850056.	1.0	14
56	A new lattice hydrodynamic model based on control method considering the flux change rate and delay feedback signal. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 482-488.	0.9	26
57	An extended heterogeneous car-following model accounting for anticipation driving behavior and mixed maximum speeds. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 489-498.	0.9	21
58	KdV-Burgers equation in the modified continuum model considering the â€œbackward lookingâ€•effect. Nonlinear Dynamics, 2018, 91, 2007-2017.	2.7	14
59	Nonlinear analysis of an improved continuum model considering headway change with memory. Modern Physics Letters B, 2018, 32, 1850037.	1.0	10
60	An improved lattice hydrodynamic model considering the â€œbackward lookingâ€•effect and the traffic interruption probability. Nonlinear Dynamics, 2018, 91, 777-784.	2.7	48
61	Meshless analysis of two-dimensional two-sided space-fractional wave equation based on improved moving least-squares approximation. International Journal of Computer Mathematics, 2018, 95, 540-560.	1.0	15
62	Nonlinear density wave investigation for an extended car-following model considering driverâ€™s memory and jerk. Modern Physics Letters B, 2018, 32, 1750366.	1.0	22
63	Nonlinear analysis for an improved car-following model account for the optimal velocity changes with memory. Physica A: Statistical Mechanics and Its Applications, 2018, 507, 278-288.	1.2	11
64	An extended car-following model considering the self-stabilizing driving behavior of headway. Physica A: Statistical Mechanics and Its Applications, 2018, 507, 347-357.	1.2	15
65	Effects of speed deviation and density difference in traffic lattice hydrodynamic model with interruption. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 900-908.	1.2	20
66	An extended heterogeneous car-following model with the consideration of the driversâ€™ different psychological headways. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 1113-1125.	1.2	24
67	Nonlinear analysis for a modified continuum model considering driverâ€™s memory and backward looking effect. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 18-27.	1.2	30
68	An extended lattice hydrodynamic model based on control theory considering the memory effect of flux difference. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 809-816.	1.2	19
69	A new control method based on the lattice hydrodynamic model considering the double flux difference. Chinese Physics B, 2018, 27, 050503.	0.7	8
70	KdVâ€“Burgers equation in the modified continuum model considering the effect of friction and radius on a curved road. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 1218-1227.	1.2	16
71	An extended car-following model under V2V communication environment and its delayed-feedback control. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 349-358.	1.2	61
72	TDGL and mKdV equations for car-following model considering traffic jerk and velocity difference. Nonlinear Dynamics, 2017, 87, 1809-1817.	2.7	54

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73	High-order numerical modeling for two-dimensional two-sided space-fractional wave equation based on meshless method. International Journal of Computational Materials Science and Engineering, 2017, 06, 1750002.	0.5	1
74	An extended continuum model accounting for the driver's timid and aggressive attributions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1302-1312.	0.9	146
75	A new continuum model based on full velocity difference model considering traffic jerk effect. Nonlinear Dynamics, 2017, 89, 639-649.	2.7	35
76	The meshless method for two-dimensional space-time fractional dispersion equation based on reproducing kernel particle method. International Journal of Computational Materials Science and Engineering, 2017, 06, 1750015.	0.5	0
77	An extended macro traffic flow model accounting for multiple optimal velocity functions with different probabilities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2608-2620.	0.9	92
78	KdVâ€“Burgers equation in a new continuum model based on full velocity difference model considering anticipation effect. Physica A: Statistical Mechanics and Its Applications, 2017, 481, 52-59.	1.2	87
79	A lattice hydrodynamic model based on delayed feedback control considering the effect of flow rate difference. Physica A: Statistical Mechanics and Its Applications, 2017, 479, 478-484.	1.2	27
80	An improved lattice hydrodynamic model considering the influence of optimal flux for forward looking sites. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3523-3528.	0.9	19
81	An improved continuum model for traffic flow considering driver's memory during a period of time and numerical tests. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2792-2800.	0.9	39
82	Nonlinear density wave and energy consumption investigation of traffic flow on a curved road. Chinese Physics B, 2017, 26, 110504.	0.7	15
83	The Numerical Analysis of Two-Sided Space-Fractional Wave Equation with Improved Moving Least-Square Ritz Method. Mathematical Problems in Engineering, 2016, 2016, 1-9.	0.6	5
84	A new car-following model with consideration of the velocity difference between the current speed and the historical speed of the leading car. Physica A: Statistical Mechanics and Its Applications, 2016, 464, 267-277.	1.2	38
85	TDGL and mKdV equations for car-following model considering traffic jerk. Nonlinear Dynamics, 2016, 83, 793-800.	2.7	20
86	The study for continuum model considering traffic jerk effect. Nonlinear Dynamics, 2016, 83, 57-64.	2.7	29
87	The Improved Moving Least-Square Ritz Method for the One-Dimensional Sine-Gordon Equation. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	6
88	The approximation for the boundary optimal control problem of Burgersâ€“Fisher equation with constraints. Applied Mathematics and Computation, 2014, 243, 889-898.	1.4	3
89	The reproducing kernel particle method for two-dimensional unsteady heat conduction problems. Computational Mechanics, 2009, 45, 1-10.	2.2	53
90	The meshless method for a two-dimensional parabolic problem with a source parameter. Applied Mathematics and Computation, 2008, 202, 730-737.	1.4	8

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91	Error estimates for the finite point method. Applied Numerical Mathematics, 2008, 58, 884-898.	1.2	84
92	Determination of a control parameter in a one-dimensional parabolic equation using the moving least-square approximation. International Journal of Computer Mathematics, 2008, 85, 1363-1373.	1.0	14