

CITATION REPORT

List of articles citing

Dynamical model of traffic congestion and numerical simulation

DOI: 10.1103/physreve.51.1035

Physical Review E, 1995, 51, 1035-1042.

Source: <https://exaly.com/paper-pdf/26180058/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2109	A statistical approach to vehicular traffic. 1995 , 219, 95-113		55
2108	Kink soliton characterizing traffic congestion. <i>Physical Review E</i> , 1995 , 52, 5574-5582	2.4	282
2107	Particle hopping models and traffic flow theory. <i>Physical Review E</i> , 1996 , 53, 4655-4672	2.4	246
2106	Experimental features and characteristics of traffic jams. <i>Physical Review E</i> , 1996 , 53, R1297-R1300	2.4	365
2105	Experimental properties of complexity in traffic flow. <i>Physical Review E</i> , 1996 , 53, R4275-R4278	2.4	346
2104	Propagation of Jams in Congested Traffic Flow. 1996 , 65, 2333-2336		9
2103	Gas Kinetic Approach to Two-Dimensional Traffic Flow. 1996 , 65, 3150-3152		23
2102	Dipole-layer effect in dense traffic flow. 1996 , 215, 45-56		35
2101	Effect of car acceleration on traffic flow in 1D stochastic CA model. 1996 , 223, 137-148		17
2100	Derivation and empirical validation of a refined traffic flow model. 1996 , 233, 253-282		81
2099	Continuous limit of the Nagel-Schreckenberg model. <i>Physical Review E</i> , 1996 , 54, 3707-3712	2.4	68
2098	Kinetics of Clustering and Acceleration in 1D Traffic Flow. 1996 , 65, 3386-3389		18
2097	The Kasteleyn model and a cellular automaton approach to traffic flow. 1996 , 29, L229-L235		17
2096	Kinetics of segregation in a two-lane highway traffic flow. 1996 , 29, 6531-6542		18
2095	Solvable optimal velocity models and asymptotic trajectory. <i>Physical Review E</i> , 1997 , 55, 6519-6532	2.4	49
2094	Generic weakly nonlinear model equations for density waves in two-phase flows. <i>Physical Review E</i> , 1997 , 56, 511-519	2.4	2
2093	Stationary velocity distributions in traffic flows. <i>Physical Review E</i> , 1997 , 56, 6680-6686	2.4	30

2092	Simple and exactly solvable model for queue dynamics. <i>Physical Review E</i> , 1997 , 55, 7749-7752	2.4	54
2091	Stochastic master-equation approach to aggregation in freeway traffic. <i>Physical Review E</i> , 1997 , 56, 2666-2671	2.4	50
2090	Active walker model for the formation of human and animal trail systems. <i>Physical Review E</i> , 1997 , 56, 2527-2539	2.4	176
2089	Traffic simulation with ARTIST.		2
2088	Instability of a Traffic Jam Induced by Slowing Down. 1997 , 66, 1928-1931		27
2087	Effect of Delay in Restarting of Stopped Cars in a One-Dimensional Traffic Model. 1997 , 66, 385-387		16
2086	Car-following model of multispecies systems of road traffic. <i>Physical Review E</i> , 1997 , 55, 2203-2214	2.4	58
2085	Asymptotic theory of traffic jams. <i>Physical Review E</i> , 1997 , 56, 4200-4216	2.4	68
2084	Kinetic segregation in a multilane highway traffic flow. 1997 , 237, 67-74		48
2083	Phase transition and scaling in the generalized traffic flow model. 1997 , 246, 460-470		11
2082	Deadlocks and waiting times in traffic jam. 1997 , 245, 534-542		8
2081	Path functional theory for optimal transport in steady state urban traffic networks. 1997 , 247, 405-416		1
2080	Phase transition and critical phenomenon in traffic flow model with velocity-dependent sensitivity. 1998 , 253, 353-365		4
2079	Local cluster effect in different traffic flow models. 1998 , 255, 163-188		154
2078	Asymptotic solutions for a multi-anticipative car-following model. 1998 , 260, 218-224		25
2077	Numerical simulations for traffic-flow models on a decorated square lattice. 1998 , 252, 388-404		36
2076	From modified KdV-equation to a second-order cellular automaton for traffic flow. 1998 , 254, 548-556		4
2075	Burgers equation for kinetic clustering in traffic flow. 1998 , 255, 158-162		17

2074	Time-dependent Ginzburg-Landau equation for the jamming transition in traffic flow. 1998 , 258, 237-242		11
2073	Modified KdV equation for jamming transition in the continuum models of traffic. 1998 , 261, 599-607		330
2072	Phase transition and critical phenomenon in the power-law model of traffic. 1998 , 248, 353-364		9
2071	A generalised stability criterion for motorway traffic. 1998 , 32, 141-154		54
2070	From microscopic to macroscopic traffic models. 1998 , 122-139		19
2069	Theory of traffic jam in a one-lane model. <i>Physical Review E</i> , 1998 , 57, 3839-3845	2.4	36
2068	Generalized force model of traffic dynamics. <i>Physical Review E</i> , 1998 , 58, 133-138	2.4	764
2067	Delay effect on phase transitions in traffic dynamics. <i>Physical Review E</i> , 1998 , 57, 6415-6421	2.4	92
2066	Dynamics of Granular Flow through a Vertical Pipe: Effect of Medium Flow. 1998 , 67, 1616-1624		8
2065	4/3 Law of Granular Particles Flowing through a Vertical Pipe. 1998 , 80, 2833-2836		51
2064	Phase transition in a computer network traffic model. <i>Physical Review E</i> , 1998 , 58, 193-195	2.4	185
2063	Analysis of optimal velocity model with explicit delay. <i>Physical Review E</i> , 1998 , 58, 5429-5435	2.4	296
2062	Traffic equations and granular convection. <i>Physical Review E</i> , 1998 , 58, 4763-4775	2.4	6
2061	Thermodynamic theory for the jamming transition in traffic flow. <i>Physical Review E</i> , 1998 , 58, 4271-4276	2.4	153
2060	Structure and instability of high-density equations for traffic flow. <i>Physical Review E</i> , 1998 , 57, 6176-6179	2.4	25
2059	Steady-state properties of traffic flows. 1998 , 31, 8073-8080		15
2058	From Particle Hopping Models to Traffic Flow Theory. 1998 , 1644, 1-9		24
2057	Phase transition in a difference equation model of traffic flow. 1998 , 31, 5431-5438		61

2056	The Effect of Speed Controls on Traffic. 1998 , 351-360		
2055	Dynamics of Two Equivalent Lanes Traffic Flow Model: Self-Organization of the Slow Lane and Fast Lane. 1998 , 67, 1071-1074		21
2054	Kink Solution in a Fluid Model of Traffic Flow. 1998 , 67, 763-766		5
2053	A new deterministic CA model for traffic flow with multiple states. 1999 , 32, 93-104		40
2052	Toda Lattice Solutions of Differential-Difference Equations for Dissipative Systems. 1999 , 68, 791-796		15
2051	Noise Induced Congested Traffic Flow in Coupled Map Optimal Velocity Model. 1999 , 68, 3110-3114		23
2050	Jamming transition in a two-dimensional traffic flow model. <i>Physical Review E</i> , 1999 , 59, 4857-64	2.4	192
2049	Soliton and kink jams in traffic flow with open boundaries. <i>Physical Review E</i> , 1999 , 60, 180-7	2.4	94
2048	Coupled map car-following model and its delayed-feedback control. <i>Physical Review E</i> , 1999 , 60, 4000-7	2.4	122
2047	Density waves and jamming transition in cellular automaton models for traffic flow. 1999 , 32, 6517-6525		25
2046	Exact solutions of differential equations with delay for dissipative systems. 1999 , 259, 135-139		13
2045	Cellular automaton rule 184++C. A simple model for the complex dynamics of various particles flow. 1999 , 261, 309-315		8
2044	TDGL and MKdV equations for jamming transition in the lattice models of traffic. 1999 , 264, 581-592		195
2043	Cellular automata for traffic simulations. 1999 , 263, 438-451		97
2042	Jamming transitions and the modified Korteweg-de Vries equation in a two-lane traffic flow. 1999 , 265, 297-310		158
2041	Jamming transition in pedestrian counter flow. 1999 , 267, 487-498		421
2040	Jamming transition in traffic flow on triangular lattice. 1999 , 271, 200-221		64
2039	Jamming transition of high-dimensional traffic dynamics. 1999 , 272, 592-611		66

2038	Spatio-temporal organization of vehicles in a cellular automata model of traffic with 'slow-to-start' rule. 1999 , 32, 3229-3252		12
2037	Dynamic states of a continuum traffic equation with on-ramp. <i>Physical Review E</i> , 1999 , 59, 5101-11	2.4	134
2036	Stochastic theory of freeway traffic. <i>Physical Review E</i> , 1999 , 59, 117-125	2.4	47
2035	Cellular automata simulating experimental properties of traffic flow. <i>Physical Review E</i> , 1999 , 59, R2505-R2508	1.4	105
2034	Maxwell model of traffic flows. <i>Physical Review E</i> , 1999 , 59, 88-97	2.4	23
2033	Chaotic jam and phase transition in traffic flow with passing. <i>Physical Review E</i> , 1999 , 60, 1535-41	2.4	71
2032	Stabilization and enhancement of traffic flow by the next-nearest-neighbor interaction. <i>Physical Review E</i> , 1999 , 60, 6395-401	2.4	265
2031	Stability Analysis of Optimal Velocity Model for Traffic and Granular Flow under Open Boundary Condition. 1999 , 68, 2475-2478		18
2030	Self-Organization in Four-Direction Traffic-Flow Model. 2000 , 69, 3744-3751		8
2029	Convective Instability and Structure Formation in Traffic Flow. 2000 , 69, 3752-3761		13
2028	ANALYSIS OF BOTTLENECK PHENOMENA AT BASIC FREEWAY SEGMENTS. 2000 , 2000, 39-51		8
2027	Traffic states of a model highway with on-ramp. 2000 , 281, 78-86		31
2026	Phase diagrams of noisy traffic states in the presence of a bottleneck. 2000 , 280, 602-613		27
2025	Traffic behavior in a mixture of different vehicles. 2000 , 284, 405-420		21
2024	Statistical physics of traffic flow. 2000 , 285, 101-120		84
2023	Periodic solutions of a non-linear traffic model. 2000 , 285, 147-155		18
2022	Jamming transition of pedestrian traffic at a crossing with open boundaries. 2000 , 286, 377-390		126
2021	Kinetic clustering and jamming transitions in a car-following model for bus route. 2000 , 287, 302-312		51

2020	Effect of obstacles on formation of traffic jam in a two-dimensional traffic network. 2000 , 276, 316-337		6
2019	Jamming transition in two-dimensional pedestrian traffic. 2000 , 275, 281-291		161
2018	Delay of vehicle motion in traffic dynamics. 2000 , 17, 275-294		8
2017	Delayed-feedback control of an optimal velocity traffic model.		2
2016	Multi-value cellular automaton models and metastable states in a congested phase. 2000 , 33, 7709-7720		68
2015	Spatiotemporal structure of traffic flow in a system with an open boundary. 2000 , 85, 1766-9		64
2014	Presence of many stable nonhomogeneous states in an inertial car-following model. 2000 , 84, 382-5		171
2013	Multibunch solutions of the differential-difference equation for traffic flow. <i>Physical Review E</i> , 2000 , 62, 3349-55	2.4	8
2012	Continuum approach to car-following models. <i>Physical Review E</i> , 2000 , 61, 1056-66	2.4	105
2011	Phase diagram of congested traffic flow: An empirical study. <i>Physical Review E</i> , 2000 , 62, 4737-41	2.4	51
2010	Low-density limit of the Nagel-Schreckenberg model. <i>Physical Review E</i> , 2000 , 63,	2.4	9
2009	Traffic jams induced by fluctuation of a leading car. <i>Physical Review E</i> , 2000 , 61, 3534-40	2.4	71
2008	Density waves in traffic flow. <i>Physical Review E</i> , 2000 , 61, 3564-70	2.4	88
2007	Delayed stochastic systems. <i>Physical Review E</i> , 2000 , 61, 1247-57	2.4	101
2006	COMPLEXITY IN A CRITICAL TRAFFIC FLOW. 2000 , 11, 221-231		1
2005	Towards a realistic microscopic description of highway traffic. 2000 , 33, L477-L485		286
2004	Congested traffic states in empirical observations and microscopic simulations. <i>Physical Review E</i> , 2000 , 62, 1805-24	2.4	1891
2003	Macroscopic traffic models from microscopic car-following models. <i>Physical Review E</i> , 2001 , 64, 056126	2.4	98

2002	Full velocity difference model for a car-following theory. <i>Physical Review E</i> , 2001 , 64, 017101	2.4	926
2001	Nonlinear analysis of a differential-difference equation with next-nearest-neighbour interaction for traffic flow. 2001 , 34, 11253-11259		54
2000	Traffic and related self-driven many-particle systems. 2001 , 73, 1067-1141		2384
1999	On-ramp simulations and solitary waves of a car-following model. <i>Physical Review E</i> , 2001 , 64, 035602	2.4	65
1998	Traveling waves in an optimal velocity model of freeway traffic. <i>Physical Review E</i> , 2001 , 63, 036107	2.4	19
1997	Nonlinear Stability of Optimal Velocity Traffic Flow Model to Unsteady Disturbance. 2001 , 70, 3161-3166		4
1996	A new dynamics model for traffic flow. 2001 , 46, 345-348		47
1995	Simulation of traffic in large road networks. 2001 , 17, 649-657		26
1994	A cellular automaton traffic flow model for online simulation of traffic. 2001 , 27, 719-735		55
1993	Phase diagrams in unidirectionally coupled map lattice for open traffic flow. 2001 , 289, 267-277		9
1992	Multiple jamming transitions in traffic flow. 2001 , 290, 501-511		22
1991	Soliton solutions of exactly solvable dissipative systems. 2001 , 142, 259-262		3
1990	Hysteresis and dynamical phases in a simple one-lane traffic model. 2001 , 54, 118-124		
1989	A Lagrange representation of cellular automaton traffic-flow models. 2001 , 34, 10727-10736		28
1988	Effect of looking at the car that follows in an optimal velocity model of traffic flow. <i>Physical Review E</i> , 2002 , 65, 016112	2.4	116
1987	Collective directional transport in coupled nonlinear oscillators without external bias. 2001 , 86, 2273-6		42
1986	Headways in traffic flow: remarks from a physical perspective. <i>Physical Review E</i> , 2001 , 64, 066119	2.4	38
1985	Enhancement and stabilization of traffic flow by moving in groups. <i>Physical Review E</i> , 2001 , 64, 016106	2.4	8

1984	Bifurcation phenomena in the optimal velocity model for traffic flow. <i>Physical Review E</i> , 2001 , 64, 047102.	2.4	33
1983	Die wundervolle Welt aktiver Vielteilchensysteme: Autos, Fußgänger, Vögel oder andere motorisierte Teilchen lassen sich durch relativ einfache Verallgemeinerungen der Newtonschen Gleichungen beschreiben. 2001 , 57, 27-33		8
1982	Bunching transition in a time-headway model of a bus route. <i>Physical Review E</i> , 2001 , 63, 036115	2.4	105
1981	Chaotic and periodic motions of a cyclic bus induced by speedup. <i>Physical Review E</i> , 2002 , 66, 046103	2.4	70
1980	Impact of Unsteady Disturbance on Multi-lane Traffic Flow. 2002 , 71, 989-996		10
1979	Improved stability bound for steady-state flow in a car-following model of road traffic on a circular route. <i>Physical Review E</i> , 2002 , 65, 047103	2.4	9
1978	Comment on "Analysis of optimal velocity model with explicit delay". <i>Physical Review E</i> , 2002 , 66, 038101.	2.4	41
1977	Optimization of congested traffic by controlling stop-and-go waves. <i>Physical Review E</i> , 2002 , 65, 065101.	2.4	18
1976	Capacity drop due to the traverse of pedestrians. <i>Physical Review E</i> , 2002 , 65, 036120	2.4	17
1975	Multifractal chaotic attractors in a system of delay-differential equations modeling road traffic. 2002 , 12, 1006-1014		107
1974	GENERALIZED OPTIMAL VELOCITY MODEL FOR TRAFFIC FLOW. 2002 , 13, 1-12		26
1973	Shock Wave Relation Containing Lane Change Source Term for Two-Lane Traffic Flow. 2002 , 71, 2339-2347		14
1972	The density wave in a car-following model. 2002 , 35, 4495-4500		17
1971	Traffic patterns induced by the merging of two moving car platoons with different densities. 2002 , 35, 2145-2157		2
1970	Delay-induced chaos with multifractal attractor in a traffic flow model. 2002 , 57, 151-157		41
1969	Observation of Congested Two-lane Traffic Caused by a Tunnel. 2002 , 71, 2326-2334		18
1968	Towards a variational principle for motivated vehicle motion. <i>Physical Review E</i> , 2002 , 65, 036140	2.4	59
1967	Empirical macroscopic features of spatial-temporal traffic patterns at highway bottlenecks. <i>Physical Review E</i> , 2002 , 65, 046138	2.4	216

1966	Cellular automata model simulating traffic interactions between on-ramp and main road. <i>Physical Review E</i> , 2002 , 66, 036104	2.4	85
1965	The physics of traffic jams. 2002 , 65, 1331-1386		758
1964	A new continuum model for traffic flow and numerical tests. 2002 , 36, 405-419		400
1963	Synchronized flow as a new traffic phase and related problems for traffic flow modelling. 2002 , 35, 481-508		72
1962	Micro- and macro-simulation of freeway traffic. 2002 , 35, 517-547		228
1961	Analysis of a continuous car-following model for a bus route: existence, stability and bifurcations of synchronous motions. 2002 , 308, 489-517		86
1960	Traffic flow: a statistical physics point of view. 2002 , 313, 153-187		128
1959	Analysis of congested flow at the upper stream of a tunnel. 2002 , 315, 156-162		19
1958	Metastable flows in a two-lane traffic model equivalent to extended Burgers cellular automaton. 2002 , 303, 226-238		17
1957	The optimal velocity traffic flow models with open boundaries. 2003 , 36, 289-293		8
1956	Transitions to chaos of a shuttle bus induced by continuous speedup. 2003 , 321, 641-652		3
1955	Dynamical behavior of a two-dimensional cellular automaton with signal processing. 2003 , 324, 707-716		9
1954	Modifications of the optimal velocity traffic model to include delay due to driver reaction time. 2003 , 319, 557-567		166
1953	Dynamical behavior of a two-dimensional cellular automaton with signal processing. (II). Effect of signal period. 2003 , 328, 251-260		5
1952	Dynamical model of a cooperative driving system for freeway traffic. <i>Physical Review E</i> , 2003 , 68, 026102.4	149	
1951	Optimal Velocity Model and its Applications. 2003 , 127-140		3
1950	Energy laws in human travel behaviour. 2003 , 5, 48-48		55
1949	A routing strategy for vehicular ad hoc networks in city environments.		281

1948	Study on propagation speed of small disturbance from a car-following approach. 2003 , 37, 85-99		17
1947	Still Flowing: Approaches to Traffic Flow and Traffic Jam Modeling. 2003 , 51, 681-710		208
1946	Microscopic theory of spatial-temporal congested traffic patterns at highway bottlenecks. <i>Physical Review E</i> , 2003 , 68, 036130	2.4	143
1945	Microscopic Parameters and Macroscopic Features of Traffic Flow. 2003 , 329-342		
1944	Simple dynamical models for hierarchical bunching. <i>Physical Review E</i> , 2003 , 68, 056103	2.4	
1943	Rational-driver approximation in car-following theory. <i>Physical Review E</i> , 2003 , 68, 056109	2.4	30
1942	Euler-lagrange correspondence of cellular automaton for traffic-flow models. 2003 , 90, 088701		44
1941	Open boundaries in a cellular automata model for synchronized flow: effects of nonmonotonicity. <i>Physical Review E</i> , 2003 , 68, 026135	2.4	13
1940	Density waves in traffic flow of two kinds of vehicles. <i>Physical Review E</i> , 2003 , 67, 017601	2.4	6
1939	Dangerous situations within the framework of the Nagel-Schreckenberg model. 2003 , 36, 4763-4769		19
1938	Landau theory of domain walls for one-dimensional asymmetric potentials. 2003 , 71, 1005-1012		15
1937	A section-based queueing-theoretical traffic model for congestion and travel time analysis in networks. 2003 , 36, L593-L598		57
1936	Cellular automata models for synchronized traffic flow. 2003 , 36, 381-390		131
1935	Asymmetric Optimal Velocity Model. 2003 , 72, 2754-2758		3
1934	Driver behaviour and traffic modelling. Are we looking at the right issues?.		2
1933	Modelling supply networks and business cycles as unstable transport phenomena. 2003 , 5, 90-90		49
1932	Jamming Transitions in a Two-Dimensional Cellular Automation Model of Cars with Finite Trip Length. 2003 , 36, 389-394		1
1931	Traffic Flow as Physics of Many-Body System. 2003 , 36, 335-340		

1930	New Phases in Optimal Velocity Model. 2003 , 36, 395-399		
1929	Global bifurcation investigation of an optimal velocity traffic model with driver reaction time. <i>Physical Review E</i> , 2004 , 70, 026207	2.4	109
1928	Effect of adaptive cruise control systems on traffic flow. <i>Physical Review E</i> , 2004 , 69, 066110	2.4	175
1927	Equivalence of linear response among extended optimal velocity models. <i>Physical Review E</i> , 2004 , 69, 017103	2.4	73
1926	Multilane simulations of traffic phases. <i>Physical Review E</i> , 2004 , 69, 016108	2.4	68
1925	Mesoscopic-Wavelet Freeway Work Zone Flow and Congestion Feature Extraction Model. 2004 , 130, 94-103		68
1924	Empirical test for cellular automaton models of traffic flow. <i>Physical Review E</i> , 2004 , 70, 016115	2.4	86
1923	The physics of traffic and regional development. 2004 , 45, 405-426		40
1922	Cellular Automata and Roundabout Traffic Simulation. 2004 , 202-210		5
1921	Large-Scale Multi-Agent Simulations for Transportation Applications. 2004 , 8, 205-221		37
1920	Performance Evaluation of Microscopic Traffic Flow Models with Test Track Data. 2004 , 1876, 90-100		53
1919	Digital VLSI implementation of ultra-discrete cellular automata for simulating traffic flow.		1
1918	Many-neighbour interaction and non-locality in traffic models. 2004 , 39, 397-408		54
1917	Numerical bifurcation analysis of a car-following model. 2004 , 4, 552-553		
1916	Three-phase traffic theory and highway capacity. 2004 , 333, 379-440		186
1915	Bifurcation analysis of a class of car following traffic models. 2004 , 197, 222-241		79
1914	Determination of interaction potentials in freeway traffic from steady-state statistics. 2004 , 333, 370-378		44
1913	Stability analysis and stabilization strategies for linear supply chains. 2004 , 335, 644-660		56

1912	Stochastic multi-value cellular automata models for bicycle flow. 2004 , 37, 2063-2072	55
1911	Modeling of traffic flow of automated vehicles. 2004 , 5, 99-113	71
1910	Mechanical restriction versus human overreaction triggering congested traffic states. 2004 , 92, 238702	160
1909	Steady-state solutions of hydrodynamic traffic models. <i>Physical Review E</i> , 2004 , 69, 016118	2.4 34
1908	Stabilization effect of traffic flow in an extended car-following model based on an intelligent transportation system application. <i>Physical Review E</i> , 2004 , 70, 066134	2.4 295
1907	Collective phenomena and states in traffic and self-driven many-particle systems. 2004 , 30, 180-187	26
1906	Congestion Redux. 2004 , 64, 1175-1185	44
1905	A MODIFIED OPTIMAL VELOCITY MODEL FOR VEHICLE FOLLOWING. 2005 , 38, 120-125	2
1904	Nonlinear dynamics of traffic jams. 2005 , 207, 41-51	39
1903	Bifurcations and multiple traffic jams in a car-following model with reaction-time delay. 2005 , 211, 277-293	105
1902	Probabilistic description of traffic flow. 2005 , 408, 1-130	125
1901	KdV and kink-antikink solitons in car-following models. 2005 , 357, 466-476	150
1900	The traffic flow controlled by the traffic lights in the speed gradient continuum model. 2005 , 355, 551-564	22
1899	Conditions for string stability. 2005 , 54, 991-998	35
1898	Controlling traffic jams by a feedback signal. 2005 , 43, 565-572	24
1897	A new car-following model: full velocity and acceleration difference model. 2005 , 47, 145-150	157
1896	Cooperative flow dynamics in production lines with buffer level dependent production rates. 2005 , 167, 116-128	6
1895	Effect of relative velocity on the optimal velocity model. 2005 , 9, 283-285	2

1894	Car-Following Model for Motorway Traffic. 2005 , 1934, 33-42		11
1893	Calibration and Validation of Microscopic Models of Traffic Flow. 2005 , 1934, 179-187		26
1892	Instability of pedestrian flow and phase structure in a two-dimensional optimal velocity model. <i>Physical Review E</i> , 2005 , 71, 036121	2.4	64
1891	Stabilization analysis and modified Korteweg-de Vries equation in a cooperative driving system. <i>Physical Review E</i> , 2005 , 71, 066119	2.4	210
1890	Stability of the car-following model on two lanes. <i>Physical Review E</i> , 2005 , 72, 066124	2.4	90
1889	Driver identification using driving behavior signals.		18
1888	Modeling of individualities in driving through spectral analysis of behavioral signals.		6
1887	A framework for mobility models generation and its application to inter-vehicular networks.		14
1886	Comparative evaluation of microscopic car-following behavior. 2005 , 6, 314-325		185
1885	Pinch Effect in a Cellular Automaton (CA) Model for Traffic Flow. 2005 , 253-258		6
1884	Stochastic optimal velocity model and its long-lived metastability. <i>Physical Review E</i> , 2005 , 72, 035102	2.4	62
1883	Deterministic microscopic three-phase traffic flow models. 2006 , 39, 1775-1809		100
1882	Formation of density waves in traffic flow through intersecting roads. <i>Physical Review E</i> , 2006 , 73, 036101	2.4	24
1881	.		
1880	Vehicle Route Guidance Systems: Classification and Comparison. 2006 ,		31
1879	Longitudinal control of heavy trucks in mixed traffic: environmental and fuel economy considerations. 2006 , 7, 92-104		60
1878	Understanding widely scattered traffic flows, the capacity drop, and platoons as effects of variance-driven time gaps. <i>Physical Review E</i> , 2006 , 74, 016123	2.4	121
1877	Stochastic Modeling and Simulation of Traffic Flow: Asymmetric Single Exclusion Process with Arrhenius look-ahead dynamics. 2006 , 66, 921-944		69

1876	On the Fundamental Diagram of Traffic Flow. 2006 , 66, 1150-1162	52
1875	Subcritical Hopf bifurcations in a car-following model with reaction-time delay. 2006 , 462, 2643-2670	87
1874	Validating microscopic traffic flow models. 2006 ,	8
1873	A velocity-difference-separation model for car-following theory. 2006 , 15, 1570-1576	43
1872	Stochastic Cellular-Automaton Model for Traffic Flow. 2006 , 538-547	3
1871	Empirics of Multianticipative Car-Following Behavior. 2006 , 1965, 112-120	30
1870	HOPF CALCULATIONS IN DELAYED CAR-FOLLOWING MODELS. 2006 , 39, 193-198	
1869	Delays, inaccuracies and anticipation in microscopic traffic models. 2006 , 360, 71-88	335
1868	Effect of cooperative merging on the synchronous flow phase of traffic. 2006 , 361, 606-618	52
1867	Steady state traffic flow, entropy production rate, temporal fluctuations and fuel consumption. 2006 , 361, 630-642	4
1866	Probabilistic breakdown phenomenon at on-ramp bottlenecks in three-phase traffic theory: Congestion nucleation in spatially non-homogeneous traffic. 2006 , 364, 473-492	17
1865	A new anisotropic continuum model for traffic flow. 2006 , 368, 551-559	131
1864	Understanding interarrival and interdeparture time statistics from interactions in queuing systems. 2006 , 363, 62-72	31
1863	Phase transition of traffic states with on-ramp. 2006 , 371, 674-682	124
1862	Cellular automata models of highway traffic. 2006 , 372, 142-150	32
1861	On the propagation of congestion waves in the Internet. 2006 , 360, 134-142	3
1860	A control method for congested traffic induced by bottlenecks in the coupled map car-following model. 2006 , 366, 513-522	78
1859	Controlling traffic flow near the transition to the synchronous flow phase. 2006 , 368, 541-550	32

1858	Numerical analysis on car-following traffic flow models with delay time. 2006 , 7, 204-209	5
1857	Analysis of stability and density waves of traffic flow model in an ITS environment. 2006 , 53, 367-374	93
1856	The effects of reaction delay in the Nagel-Schreckenberg traffic flow model. 2006 , 54, 267-273	14
1855	Effect of looking backward on traffic flow in a cooperative driving car following model. 2006 , 54, 503-507	58
1854	Continuum modeling for two-lane traffic flow. 2006 , 22, 131-137	20
1853	Density waves in the full velocity difference model. 2006 , 39, 1251-1263	11
1852	Analytical study on the criticality of the stochastic optimal velocity model. 2006 , 39, 2921-2933	13
1851	Dynamical Model of Traffic Congestion with the Consideration of the Next-nearest- neighbor Interaction. 2006 ,	1
1850	OPTIMAL VELOCITY MODEL WITH RELATIVE VELOCITY. 2006 , 17, 65-73	7
1849	An Improved Car-Following Model for Multiphase Vehicular Traffic Flow and Numerical Tests. 2006 , 46, 367-373	41
1848	A DYNAMICAL MODEL WITH NEXT-NEAREST-NEIGHBOR INTERACTION IN RELATIVE VELOCITY. 2007 , 18, 819-832	32
1847	Analysis of a New Car-following Model with a Consideration of Multi-interaction of Preceding vehicles. 2007 ,	2
1846	Exact Shock Solution of a Coupled System of Delay Differential Equations: A Car-Following Model. 2007 , 76, 083002	4
1845	Influence of Reaction Times and Anticipation on Stability of Vehicular Traffic Flow. 2007 , 1999, 23-29	39
1844	Study of Freeway Speed Limit Control Based on Three-Phase Traffic Theory. 2007 , 1999, 30-39	27
1843	Analysis of Density Wave in Two-Lane Traffic. 2007 , 24, 1410-1413	23
1842	Exact solution of the zero-range process: fundamental diagram of the corresponding exclusion process. 2007 , 40, 7127-7138	27
1841	. 2007 ,	7

1840	Universal and nonuniversal features in a model of city traffic. <i>Physical Review E</i> , 2007 , 75, 026108	2.4	101
1839	Energy Dissipation Burst on the Traffic Congestion. 2007 , 76, 064004		1
1838	A New Concept of Drive Recording System by Estimating Human Intention Using Particle Filters. 2007 ,		4
1837	General Lane-Changing Model MOBIL for Car-Following Models. 2007 , 1999, 86-94		529
1836	An Asymptotic Solvable Multiple "Look-Ahead" Model with Multi-weight. 2007 , 48, 1088-1092		9
1835	Driving Behaviour: Models and Challenges. 2007 , 27, 65-84		112
1834	DESIGN OF A FULL-RANGE ACC WITH COLLISION AVOIDANCE/MITIGATION BRAKING. 2007 , 40, 127-134		5
1833	Driver Modeling Based on Driving Behavior and Its Evaluation in Driver Identification. 2007 , 95, 427-437		206
1832	Nonlinear Dynamics of Traffic Jams. 2007 ,		2
1831	Nonlinear Analysis of a Dynamical Model with Next-nearest-neighbor Interaction for Traffic. 2007 ,		
1830	A New Lattice Model for Traffic Flow and Its Analysis. 2007 ,		
1829	A vehicle overtaking model of traffic dynamics. 2007 , 17, 033116		14
1828	Chapter 11 ITS and Traffic Management. 2007 , 14, 715-774		30
1827	SIMULATION USING GIPPS' CAR-FOLLOWING MODEL AN IN-DEPTH ANALYSIS. 2007 , 3, 231-245		27
1826	Hysteresis phenomena of the intelligent driver model for traffic flow. <i>Physical Review E</i> , 2007 , 76, 016105.4	2.4	13
1825	Jam formation in traffic flow on a highway with some slowdown sections. 2007 , 374, 419-430		19
1824	The night driving behavior in a car-following model. 2007 , 375, 297-306		15
1823	A force model for single-line traffic. 2007 , 376, 628-640		5

1822	Effect of adaptive cruise control systems on mixed traffic flow near an on-ramp. 2007 , 379, 274-290	104
1821	Traffic mixing in deterministic two-lane model of Hurricane evacuation. 2007 , 380, 490-502	13
1820	Study on stability and energy consumption in typical car-following models. 2007 , 381, 399-406	34
1819	Traffic congestion and dispersion in Hurricane evacuation. 2007 , 376, 617-627	12
1818	The stability analysis of the full velocity and acceleration velocity model. 2007 , 375, 679-686	38
1817	A two-dimensional CA model for traffic flow with car origin and destination. 2007 , 378, 485-497	7
1816	Traffic behavior in the on-ramp system with signal controlling. 2007 , 385, 333-342	18
1815	Multiscale analysis of a spatially heterogeneous microscopic traffic model. 2007 , 236, 1-12	3
1814	Multi-value cellular automata model for mixed bicycle flow. 2007 , 56, 247-252	41
1813	Density waves in traffic flow model with relative velocity. 2007 , 57, 115-120	15
1812	Application of thermodynamics to driven systems. 2007 , 57, 463-471	16
1811	Lane changing analysis for two-lane traffic flow. 2007 , 23, 49-54	43
1810	Kinkantikink density wave of an extended car-following model in a cooperative driving system. 2008 , 13, 2167-2176	55
1809	Two velocity difference model for a car following theory. 2008 , 387, 5239-5245	147
1808	Fundamental diagram in traffic flow of mixed vehicles on multi-lane highway. 2008 , 387, 5583-5596	12
1807	The Backward looking effect in the lattice hydrodynamic model. 2008 , 387, 6952-6958	124
1806	Intermittent unstable structures induced by incessant constant disturbances in the full velocity difference car-following model. 2008 , 237, 467-474	9
1805	A total generalized optimal velocity model and its numerical tests. 2008 , 13, 166-170	13

1804	A car-following model with the anticipation effect of potential lane changing. 2008 , 24, 399-407	49
1803	On pattern formation in a class of traffic models. 2008 , 237, 28-49	7
1802	Numerical simulation of soliton and kink density waves in traffic flow with periodic boundaries. 2008 , 387, 4367-4375	19
1801	Extreme fluctuation events in a simple high-density traffic model. 2008 , 387, 5575-5582	2
1800	Real-time estimation of vehicle-count within signalized links. 2008 , 16, 18-35	126
1799	Density waves in the continuum analog of the full velocity difference model. 2008 , 387, 1799-1806	8
1798	Analysis of car-following model considering driver's physical delay in sensing headway. 2008 , 387, 3290-3298	35
1797	Comparing traffic flow models with different number of phases. 2008 , 63, 315-320	13
1796	A model based on TTC to describe how drivers control their vehicles. 2008 , 66, 149-153	6
1795	Property Analysis of Multiple Velocity Difference Model. 2008 , 28, 150-155	2
1794	How Reaction Time, Update Time, and Adaptation Time Influence the Stability of Traffic Flow. 2008 , 23, 125-137	118
1793	. 2008 , 2, 198-208	3
1792	Preliminary Results of a Multi-Agent Traffic Simulation for Berlin. 2008 , 75-94	7
1791	From Existing Accident-Free Car-Following Models to Colliding Vehicles: Exploration and Assessment. 2008 , 2088, 45-56	47
1790	Relating time-occupancy measurements to space-occupancy and link vehicle-count. 2008 , 16, 1-17	48
1789	Nonlinear analysis of an extended traffic flow model in ITS environment. 2008 , 36, 550-558	21
1788	Lattice Boltzmann model for traffic flow. <i>Physical Review E</i> , 2008 , 77, 036108	2.4 21
1787	Traffic jams without bottlenecks—experimental evidence for the physical mechanism of the formation of a jam. 2008 , 10, 033001	367

1786	Phase transition on speed limit traffic with slope. 2008 , 17, 3014-3020	33
1785	A Backward-Looking Optimal Current Lattice Model. 2008 , 50, 753-756	31
1784	Nonlinear Analysis of a Synthesized Optimal Velocity Model for Traffic Flow. 2008 , 50, 505-510	33
1783	STABILIZATION ANALYSIS AND MODIFIED KdV EQUATION OF LATTICE MODELS WITH CONSIDERATION OF RELATIVE CURRENT. 2008 , 19, 1163-1173	78
1782	Calibrating Car-Following Models by Using Trajectory Data: Methodological Study. 2008 , 2088, 148-156	244
1781	A New Traffic Flow Model with the Effects of Backward Looking and Relative Current. 2008 ,	1
1780	A TRAFFIC-FLOW MODEL WITH CONSTRAINTS FOR THE MODELING OF TRAFFIC JAMS. 2008 , 18, 1269-1298	40
1779	AN INTELLIGENT AGENT MOBILE EMISSIONS MODEL FOR URBAN ENVIRONMENTAL MANAGEMENT. 2008 , 18, 485-502	1
1778	ANALYSIS OF GENERALIZED OPTIMAL CURRENT LATTICE MODEL FOR TRAFFIC FLOW. 2008 , 19, 727-739	76
1777	STABILITY AND KINK-ANTIKINK SOLITON SOLUTION FOR TOTAL GENERALIZED OPTIMAL VELOCITY MODEL. 2008 , 19, 1321-1335	36
1776	The density wave in a new anisotropic continuum model. 2008 , 17, 23-26	9
1775	Effect of multi-velocity-difference in traffic flow. 2008 , 17, 4446-4450	19
1774	The effect of ACC vehicles to mixed traffic flow consisting of manual and ACC vehicles. 2008 , 17, 4440-4445	15
1773	TACTICAL LANE CHANGE MODEL WITH SEQUENTIAL MANEUVER PLANNING. 2008 , 4, 63-78	11
1772	A theory of traffic congestion at heavy bottlenecks. 2008 , 41, 215101	43
1771	ENHANCING HIGHWAY CAPACITY BY HOMOGENIZING TRAFFIC FLOW. 2008 , 4, 51-61	18
1770	Human driving data-based design of a vehicle adaptive cruise control algorithm. 2008 , 46, 661-690	121
1769	Linear stability analysis of a multi-vehicle car-following traffic flow model. 2008 ,	2

1768	Mechanisms for spatio-temporal pattern formation in highway traffic models. 2008 , 366, 2017-32		131
1767	New Behavioral Model for Microscopic Freeway Traffic-Flow Simulation. 2008 , 2088, 10-17		2
1766	Business Cycle and Conserved Quantity in Economics. 2008 , 77, 114001		1
1765	AN APPLICATION OF THE MODEL OF CAR-FOLLOWING BEHAVIOR ILLUSTRATED AS SPIRAL MOVEMENT TO REPRODUCTION OF TRAFFIC FLOW. 2009 , 65, 211-224		1
1764	Dissipative system with asymmetric interaction and Hopf bifurcation. <i>Physical Review E</i> , 2009 , 80, 026203.4		7
1763	Effect of desired speed variability on highway traffic flow. <i>Physical Review E</i> , 2009 , 79, 066110	2.4	5
1762	Study on stability of traffic flow for cooperative driving control. 2009 ,		0
1761	Synchronized Flow in a Cellular Automata Model with Speed Variation Dependent Randomization. 2009 ,		0
1760	Achievement of alternative configurations of vehicles on multiple lanes. <i>Physical Review E</i> , 2009 , 79, 066119	2.4	17
1759	A Study on the Stability of Traffic Flow under Variable Demand. 2009 ,		
1758	Ultradiscrete optimal velocity model: a cellular-automaton model for traffic flow and linear instability of high-flux traffic. <i>Physical Review E</i> , 2009 , 79, 056108	2.4	15
1757	Flow improvement caused by agents who ignore traffic rules. <i>Physical Review E</i> , 2009 , 80, 016111	2.4	23
1756	Dilemma game structure observed in traffic flow at a 2-to-1 lane junction. <i>Physical Review E</i> , 2009 , 79, 036104	2.4	41
1755	Stability analysis on hybrid optimal velocity model with relative velocity. 2009 ,		
1754	Behavior control methodology for circulating robots in flexible batch manufacturing systems experiencing bottlenecks. 2009 ,		3
1753	Cellular Automata Models of Traffic Behavior in Presence of Speed Breaking Structures. 2009 , 52, 646-652		2
1752	A MARKOV-PROCESS INSPIRED CA MODEL OF HIGHWAY TRAFFIC. 2009 , 20, 117-131		20
1751	AN EXTENDED OV MODEL WITH CONSIDERATION OF DRIVER'S MEMORY. 2009 , 23, 743-752		72

1750	Multiple car-following model of traffic flow and numerical simulation. 2009 , 18, 5420-5430	34
1749	THE EFFECTS OF TAXI ON TRAFFIC FLOW. 2009 , 20, 1537-1546	3
1748	A modified weighted probabilistic cellular automaton traffic flow model. 2009 , 18, 3271-3278	4
1747	Lattice models of traffic flow considering drivers' delay in response. 2009 , 18, 1322-1327	19
1746	A control method for congested traffic in the coupled map car-following model. 2009 , 18, 4208-4216	11
1745	Metastability in the formation of an experimental traffic jam. 2009 , 11, 083025	50
1744	Analytical solutions of jam pattern formation on a ring for a class of optimal velocity traffic models. 2009 , 11, 073012	10
1743	Dynamic characteristics and simulation of traffic flow with slope. 2009 , 18, 2703-2708	7
1742	The traffic problem: Modeling of the overtaking. 2009 , 32, 2319-2338	3
1741	Traffic states induced by slowdown sections on two-lane highway. 2009 , 388, 1196-1206	9
1740	The phase diagram and the pathway of phase transitions for traffic flow in a circular one-lane roadway. 2009 , 388, 1665-1672	4
1739	A velocity matching car-following model on a closed ring in which overtaking is allowed. 2009 , 58, 141-151	11
1738	Automated Traffic and the Finite Size Resonance. 2009 , 137, 189-203	7
1737	Application of singular perturbation method in analyzing traffic density waves. 2009 , 13, 6-11	
1736	Velocity anticipation in the optimal velocity model. 2009 , 13, 327-332	
1735	Discrete vs. continuous time implementation of a ring car following model in which overtaking is allowed. 2009 , 10, 437-448	3
1734	The Korteweg-de Vries soliton in the lattice hydrodynamic model. 2009 , 388, 1682-1686	51
1733	Characteristics of mixed traffic flow with non-motorized vehicles and motorized vehicles at an unsignalized intersection. 2009 , 388, 2041-2050	48

1732	Stability and instability in a class of car following model on a closed loop. 2009 , 388, 2476-2482	4
1731	Effect of gravitational force upon traffic flow with gradients. 2009 , 388, 2880-2894	54
1730	Traffic flow on a toll highway with electronic and traditional tollgates. 2009 , 388, 4979-4990	18
1729	A new dynamic model for heterogeneous traffic flow. 2009 , 373, 2461-2466	104
1728	Analytical calculation of critical perturbation amplitudes and critical densities by non-linear stability analysis of a simple traffic flow model. 2009 , 69, 571-581	23
1727	On the controversy around Daganzo's requiem for and Aw-Raschke's resurrection of second-order traffic flow models. 2009 , 69, 549-562	51
1726	Comment on "On the controversy around Daganzo's requiem for and Aw-Raschke's resurrection of second-order traffic flow models" by D. Helbing and A.F. Johansson. 2009 , 69, 563-568	16
1725	Derivation of non-local macroscopic traffic equations and consistent traffic pressures from microscopic car-following models. 2009 , 69, 539-548	56
1724	A new car-following model with consideration of the traffic interruption probability. 2009 , 18, 975-983	85
1723	Macroscopic effects of reaction time on traffic flow characteristics. 2009 , 80, 025802	23
1722	Encyclopedia of Complexity and Systems Science. 2009 , 9411-9429	3
1721	Exciting traffic jams: nonlinear phenomena behind traffic jam formation on highways. <i>Physical Review E</i> , 2009 , 80, 046205	2.4 81
1720	Calibration of Car-Following Models Using Floating Car Data. 2009 , 117-127	6
1719	Simulating train movement in railway traffic using a car-following model. 2009 , 18, 2200-2204	11
1718	A car following model with the backward looking effect and next-nearest-neighbor interaction in relative velocity. 2009 ,	
1717	Stabilization of traffic flow based on multi-anticipative intelligent driver model. 2009 ,	4
1716	Data Mining for Bibliometric Analysis of Traffic Flow. 2009 ,	1
1715	Method of Lane-Changing Track Access Based on Video. 2009 ,	1

- 1714 Microscopic Car-Following Models Revisited: From Road Works to Fundamental Diagrams. **2009**, 8, 1305-1323 6
- 1713 Macroscopic Effects of Multianticipative Driving Behavior on Traffic Flow Characteristics. **2009**, 2124, 103-112 3
- 1712 Jamming transitions induced by a slow vehicle in traffic flow on a multi-lane highway. **2009**, 2009, P04002 5
- 1711 Temporal stochasticity and non-locality. **2009**, 2009, P01032 2
- 1710 General Approach for Simulating Heterogeneity of Car-Following Behaviors. **2009**,
- 1709 Autonomous cruise control of circulating multi-robot for congestion. **2010**, 3 3
- 1708 First Order Phase Transition in a New Cellular Automaton Model within the Framework of Kerner's Three-Phase Traffic Theory. **2010**, 1 1
- 1707 Dynamical phenomena induced by bottleneck. **2010**, 368, 4543-62 5
- 1706 Intelligent Cruise Control of Circulating Multi-Robot Effective for Congestion(TRANSLOG2009/J-RAIL2009). **2010**, 76, 2387-2395
- 1705 Optimal velocity functions for car-following models. **2010**, 11, 520-529 16
- 1704 A hydrodynamic modelling framework for production networks. **2010**, 7, 61-83 1
- 1703 Multi-agent systems for simulating traffic behaviors. **2010**, 55, 293-300 12
- 1702 Discontinuous periodic behaviour in a looped macroscopic model of traffic dynamics. **2010**, 11, 800-808
- 1701 Traffic flow through multi-lane tollbooths on a toll highway. **2010**, 389, 2268-2279 23
- 1700 A trip time model for traffic flow on a semi-closed loop. **2010**, 52, 902-917
- 1699 Qualitative change of fluctuation observed in real traffic flow. **2010**, 239, 207-213 2
- 1698 A new macro model for traffic flow with the consideration of the driver's forecast effect. **2010**, 374, 1668-167288
- 1697 A dynamical model of car-following with the consideration of the multiple information of preceding cars. **2010**, 374, 1694-1698 174

1696	The effect of diffusion in a new viscous continuum traffic model. 2010 , 374, 2346-2355	16
1695	A new car-following model with the consideration of the driver's forecast effect. 2010 , 374, 3951-3956	136
1694	Explaining traffic patterns at on-ramp vicinity by a driver perception model in the framework of three-phase traffic theory. 2010 , 389, 825-836	35
1693	The theoretical analysis of the lattice hydrodynamic models for traffic flow theory. 2010 , 389, 2825-2834	74
1692	Density waves in a traffic flow model with reaction-time delay. 2010 , 389, 2607-2616	54
1691	Non-lane-based full velocity difference car following model. 2010 , 389, 4654-4662	102
1690	A tuning strategy to avoid blocking and starving in a buffered production line. 2010 , 200, 616-620	2
1689	Stabilisation analysis of multiple car-following model in traffic flow. 2010 , 19, 056401	25
1688	A new car-following model yielding log-normal type headways distributions. 2010 , 19, 020513	28
1687	Effects of Potential Lane-Changing Probability on Uniform Flow. 2010 , 54, 943-946	6
1686	Nonlinear analysis of traffic jams in an anisotropic continuum model. 2010 , 19, 110503	85
1685	Flow difference effect in the lattice hydrodynamic model. 2010 , 19, 040303	40
1684	Bifurcation Analysis of the Full Velocity Difference Model. 2010 , 27, 040501	15
1683	A traffic flow lattice model considering relative current influence and its numerical simulation. 2010 , 19, 080514	28
1682	Continuum modeling for two-lane traffic flow with consideration of the traffic interruption probability. 2010 , 19, 120501	17
1681	Efficiency promotion for an on-ramp system based on intelligent transportation system information. 2010 , 19, 080515	1
1680	Considering Backward Effect in Coupled Map Car-Following Model. 2010 , 54, 117-122	13
1679	General solution of the modified Korteweg-de-Vries equation in the lattice hydrodynamic model. 2010 , 19, 100512	2

1678	Notice of Retraction: Stabilization analysis of lattice models in an intelligent transportation system environment. 2010 ,		
1677	Robotic reactions: delay-induced patterns in autonomous vehicle systems. <i>Physical Review E</i> , 2010 , 81, 025204	2.4	26
1676	A platform for realistic online vehicular network management. 2010 ,		14
1675	. 2010 , 7, 887-901		15
1674	An Improved Car-Following Model Car with Leading Acceleration Considered. 2010 ,		1
1673	Collective behavior of inanimate boats. <i>Physical Review E</i> , 2010 , 81, 056210	2.4	52
1672	PERTURBATION AND STABILITY ANALYSIS OF THE MULTI-ANTICIPATIVE INTELLIGENT DRIVER MODEL. 2010 , 21, 647-668		9
1671	A new car-following model considering velocity anticipation. 2010 , 19, 010511-7		20
1670	ANTICIPATION DRIVING BEHAVIOR AND RELATED REDUCTION OF ENERGY CONSUMPTION IN TRAFFIC FLOW. 2010 , 21, 915-929		4
1669	A NUMERICAL INVESTIGATION OF THE JAMMING TRANSITION IN TRAFFIC FLOW ON DILUTED PLANAR NETWORKS. 2010 , 24, 6351-6363		2
1668	Fluid-dynamical and microscopic description of traffic flow: a data-driven comparison. 2010 , 368, 4481-95		15
1667	Using Trajectory Data to Analyze Intradriver Heterogeneity in Car-Following. 2010 , 2188, 85-95		35
1666	Stability Analysis of Pedestrian Flow and Phase Structure in the Improved Two-Dimensional OV Models. 2010 ,		1
1665	Spatiotemporal dynamics of skeins of wild geese. 2010 , 89, 48004		20
1664	Group chase and escape. 2010 , 12, 053013		50
1663	Approximate similarity reduction for the perturbed mKdV equation via symmetry perturbation and direct method. 2010 , 43, 265203		1
1662	A new nonlocal traffic flow model with anticipation-dependent relaxation time, equilibrium velocity and variance. 2010 , 2010, P12012		6
1661	. 2010 ,		1

1660	A DYNAMIC MODEL FOR THE HETEROGENEOUS TRAFFIC FLOW CONSISTING OF CAR, BICYCLE AND PEDESTRIAN. 2010 , 21, 159-176	35
1659	Traffic jams: dynamics and control. 2010 , 368, 4455-79	221
1658	Vehicle formation analysis based on zero dynamics for road traffic system. 2010 ,	1
1657	Inversion of Flux between Zipper and Non-Zipper Merging in Highway Traffic. 2010 , 619-624	1
1656	Measurement and estimation of traffic oscillation properties. 2010 , 44, 1-14	86
1655	An adaptive time gap car-following model. 2010 , 44, 1115-1131	53
1654	Car-Following Model Calibration and Analysis of Intra-Driver Heterogeneity. 2010 , 108-111, 805-810	4
1653	. 2010 ,	2
1652	Effects of Cooperative Adaptive Cruise Control on traffic flow stability. 2010 ,	108
1651	Modeling and simulation of traffic flow in work zone on highway. 2010 ,	
1650	. 2010 , 11, 312-321	31
1649	An IntelliDrive application for reducing traffic congestions using agent-based approach. 2010 ,	7
1648	An Extended Optimal Velocity Model with Consideration of Honk Effect. 2010 , 54, 1151-1155	36
1647	Enhance Stability of Traffic Flow in an Extended Car-Following Model Based on Anticipative Information. 2010 ,	
1646	Sufficient condition of stability in computer networks. 2010 ,	
1645	Feedback Control of Crowd Evacuation in One Dimension. 2010 , 11, 182-193	34
1644	Spatial and Temporal Analysis of Planet Scale Vehicular Imagery Data. 2011 ,	7
1643	On the Modeling of Traffic and Crowds: A Survey of Models, Speculations, and Perspectives. 2011 , 53, 409-463	283

1642	Characteristics of Lane Changing Induced by Bus Stop and Deceleration Area. 2011,	3
1641	Multiclass first-order traffic model using stochastic fundamental diagrams. 2011, 7, 111-125	79
1640	Transport on Networks. 2011, 383-405	2
1639	Stability and Stabilization of Systems with Time Delay. 2011, 31, 38-65	365
1638	Complex spatiotemporal behavior in a chain of one-way nonlinearly coupled elements. 2011, 4, 1167-1179	4
1637	Vehicular Traffic III: Other CA Models. 2011, 281-333	
1636	Characterization of traffic oscillation propagation under nonlinear car-following laws. 2011, 45, 1346-1361	30
1635	. 2011,	1
1634	Nonlinear queue management in TCP/IP networks. 2011,	
1633	Vehicular Traffic IV: Non-CA Approaches. 2011, 335-381	
1632	A Car-Following Dynamic Model on Equilibrium. 2011,	
1631	Car-following behavior in traffic having mixed vehicle-types. 2011, 3, 109-122	10
1630	Wiedemann Revisited: New Trajectory Filtering Technique and Its Implications for Car-Following Modeling. 2011, 2260, 152-162	25
1629	Heterogeneous Effect and Pattern Formation on Pedestrian Queue Dynamics. 2011, 94-96, 2043-2046	0
1628	General Newell Model and Related Second-Order Expressions. 2011, 2260, 42-49	7
1627	Washout Control of a Cyclic Vehicular Traffic Flow. 2011, 44, 8421-8426	
1626	KdV and Kink-Antikink Solitons in an Extended Car-Following Model. 2011, 6,	19
1625	Characterization of Traffic Oscillation Propagation under Nonlinear Car-Following Laws. 2011, 17, 663-682	10

1624	Experimental Analysis of Trajectories for the Modeling of Capacity Drop. 2011 , 20, 445-454	3
1623	Time-dependent Ginzburg-Landau equation in a car-following model considering the driver's physical delay. 2011 , 390, 3348-3353	17
1622	Impact of the honk effect on the stability of traffic flow. 2011 , 390, 3362-3368	76
1621	The influence of nonmonotonic synchronized flow branch in a cellular automaton traffic flow model. 2011 , 390, 4184-4191	27
1620	An empirical study of common traffic congestion features based on traffic data measured in the USA, the UK, and Germany. 2011 , 390, 4466-4485	43
1619	A new car-following model with consideration of roadside memorial. 2011 , 375, 3845-3850	95
1618	Optimal velocity difference model for a car-following theory. 2011 , 375, 3973-3977	134
1617	Car-following theory of steady-state traffic flow using time-to-collision. 2011 , 12, 645-654	16
1616	Asymptotic Dynamics of Self-driven Vehicles in a Closed Boundary. 2011 , 144, 813-825	
1615	Modeling and simulation for microscopic traffic flow based on multiple headway, velocity and acceleration difference. 2011 , 66, 15-28	151
1614	Optimal design and impact analysis of urban traffic regulations under ambient uncertainty. 2011 , 25, 271-286	3
1613	Jam emergence on a circular track in a car-following model. 2011 , 390, 943-950	11
1612	Nonlinear analysis of lattice model with consideration of optimal current difference. 2011 , 16, 4524-4529	50
1611	Effect of looking backward on traffic flow in an extended multiple car-following model. 2011 , 390, 631-635	58
1610	Analysis of honk effect on the traffic flow in a cellular automaton model. 2011 , 390, 1072-1084	28
1609	Visual angle model for car-following theory. 2011 , 390, 1931-1940	70
1608	Three-lane changing behaviour simulation using a modified optimal velocity model. 2011 , 390, 2303-2314	42
1607	Collective motion from local attraction. 2011 , 283, 145-51	80

1606	SafetyCollision transition induced by lane changing in traffic flow. 2011 , 375, 1319-1322		19
1605	From traffic breakdown to energy flow analysis. 2011 , 19, 172-181		3
1604	Heterogeneity in car-following behavior: Theory and empirics. 2011 , 19, 182-195		125
1603	A discrete traffic kinetic model Integrating the lagged cell transmission and continuous traffic kinetic models. 2011 , 19, 196-205		9
1602	Spontaneous zipper merging of self-driven particles. 2011 , 2011, P05027		2
1601	A New Car-Following Dynamic Model and Stability Analysis. 2011 ,		
1600	Car-following model with relative-velocity effect and its experimental verification. <i>Physical Review E</i> , 2011 , 83, 046105	2.4	18
1599	Cellular automaton model with time gap dependent randomisation under Kerner's three-phase traffic theory. 2011 , 7, 127-140		38
1598	Impact of Primary User Interruptions on Data Traffic in Cognitive Radio Networks: Phantom Jam on Highway. 2011 ,		
1597	Interactions between Pedestrians Crossing and Vehicles on Roads. 2011 ,		
1596	Traffic Flow on Gradient Highway and its Stability. 2011 , 97-98, 877-882		1
1595	Influence of lane change on stability analysis for two-lane traffic flow. 2011 , 20, 088701		12
1594	A Dynamic Model for a Single Helicopter in the Low Airspace with Telegraph Poles and Electrical Wire. 2011 , 56, 1149-1154		5
1593	Correlations among Various Parameters in Car-Following Models with NGSIM Trajectory Data. 2011 , 66-68, 179-184		2
1592	Numerical Simulation of Traffic Flow in the Tollgate Area with Variable Speed Limits. 2011 , 130-134, 3404-3409		
1591	Interactions between Intersecting Pedestrian and Vehicle Flows on Roads. 2011 , 28, 118903		3
1590	The time-dependent GinzburgLandau equation for the two-velocity difference model. 2011 , 20, 080509		1
1589	A New Car-Following Model with Consideration of Driving Resistance. 2011 , 28, 038902		39

1588	Pedestrian Dynamics. 2011 , 407-460	4
1587	Jam Formation of Traffic Flow in Harbor Tunnel. 2011 , 56, 1140-1144	2
1586	Modelling and Simulation for Train Movement Control Using Car-Following Strategy. 2011 , 55, 29-34	4
1585	Modified coupled map car-following model and its delayed feedback control scheme. 2011 , 20, 090502	19
1584	Theoretical Analysis of a Modified Continuum Model. 2011 , 28, 090501	5
1583	A novel macroscopic traffic model based on generalized optimal velocity model. 2011 , 20, 014501	3
1582	Vehicle-Type Dependent Car-Following Model for Heterogeneous Traffic Conditions. 2011 , 137, 775-781	36
1581	STOCHASTIC CAR-FOLLOWING MODEL FOR EXPLAINING NONLINEAR TRAFFIC PHENOMENA. 2011 , 25, 1111-1120	3
1580	Cellular Automaton Models of Highway Traffic Flow Considering Lane-Control and Speed-Control. 2011 , 56, 785-790	8
1579	A New Car Following Model: Comprehensive Optimal Velocity Model. 2011 , 55, 1119-1126	12
1578	A MACRO MODEL FOR BICYCLE FLOW AND PEDESTRIAN FLOW WITH THE CONSIDERATION OF THE HONK EFFECTS. 2011 , 25, 4471-4479	17
1577	A NEW LATTICE MODEL OF TRAFFIC FLOW WITH THE CONSIDERATION OF THE HONK EFFECT. 2011 , 22, 967-976	28
1576	Car-following models: fifty years of linear stability analysis from a mathematical perspective. 2011 , 34, 3-18	164
1575	A Control Method for Car Following Model Considering Changing Behaviors. 2012 , 198-199, 954-957	
1574	A Control Method Considering Two Velocity Difference Effect in the Car Following Model. 2012 , 198-199, 962-965	1
1573	Solitary Density Waves for Improved Traffic Flow Model with Variable Brake Distances. 2012 , 57, 301-307	10
1572	Flow difference effect in the two-lane lattice hydrodynamic model. 2012 , 21, 070507	30
1571	An Extended Car-Following Model in a Multi-Interaction Driving System. 2012 , 178-181, 2717-2720	

1570	An extended car-following model with the dynamical collaborative between two consecutive vehicles. 2012,	1
1569	Car-following model with multiple predicting and controlling modules based on assumptions of anticipation behavior. 2012,	
1568	Estimating microscopic energy consumption on single and double lane traffic. 2012,	
1567	THE TDGL EQUATION FOR CAR-FOLLOWING MODEL WITH CONSIDERATION OF THE TRAFFIC INTERRUPTION PROBABILITY. 2012, 23, 1250053	4
1566	A NOVEL LATTICE TRAFFIC FLOW MODEL AND ITS SOLITARY DENSITY WAVES. 2012, 23, 1250025	21
1565	Cooperative Car-Following Model of Traffic Flow and Numerical Simulation. 2012, 29, 104502	3
1564	The Weaving Section Length Optimization Based on the Optimal Velocity Car-Following Model and Symmetric Lane-Changing Rule. 2012, 241-244, 2064-2071	0
1563	Heterogeneous Drivers Car-Following Model and Stability Analysis. 2012, 253-255, 1631-1636	
1562	A Control Method for Congested Traffic in the Car-Following Model. 2012, 29, 050502	20
1561	A Stochastic LWR Model with Consideration of the Driver's Individual Property. 2012, 58, 583-589	46
1560	Time-Dependent Ginzburg-Landau Equation in Car Following Model Considering the Traffic Interruption Probability. 2012, 198-199, 843-847	
1559	Analysis of the wave properties of a new two-lane continuum model with the coupling effect. 2012, 21, 015201	79
1558	Multiple flux difference effect in the lattice hydrodynamic model. 2012, 21, 020512	10
1557	Control of Traffic Signals in a Model Predictive Control Framework. 2012, 45, 221-226	10
1556	Evolution of macroscopic models for modeling the heterogeneous traffic: an Indian perspective. 2012, 4, 29-39	20
1555	Traffic Flow in a Rectangle Street-Parking-Allowed Manhattan-Like Urban System. 2012,	
1554	Exact Solutions and FlowDensity Relations for a Cellular Automaton Variant of the Optimal Velocity Model with the Slow-to-Start Effect. 2012, 81, 124005	1
1553	Experimental Analysis of Cooperative Behavior of Autonomous Mobile Robots against Congestion. 2012, 5, 58-70	

1552	Selected mathematical problems of traffic flow theory. 2012 , 89, 409-432	10
1551	Two-Vehicle Dynamics of the Car-Following Models on Realistic Driving Condition. 2012 , 12, 67-75	16
1550	A bus-following model with an on-line bus station. 2012 , 70, 209-215	57
1549	A new car-following model with consideration of anticipation driving behavior. 2012 , 70, 1205-1211	91
1548	A new car-following model accounting for varying road condition. 2012 , 70, 1397-1405	168
1547	Continuation of oscillatory patterns in a road traffic model of three cars. 2012 , 82, 1874-1893	1
1546	Extended safety descriptor measurements for relative safety assessment in mixed road traffic. 2012 ,	4
1545	Parameter estimation accuracy and active learning in the zero-range process. 2012 ,	0
1544	A new coupled map car-following model under inter-vehicle communication. 2012 ,	
1543	Efficient control of vehicles in congested traffic using model predictive control. 2012 ,	1
1542	The stabilization effect of the density difference in the modified lattice hydrodynamic model of traffic flow. 2012 , 391, 4476-4482	85
1541	Friction coefficient and radius of curvature effects upon traffic flow on a curved Road. 2012 , 391, 4597-4605	49
1540	Prediction and field validation of traffic oscillation propagation under nonlinear car-following laws. 2012 , 46, 409-423	43
1539	A behavioral car-following model that captures traffic oscillations. 2012 , 46, 744-761	128
1538	Piecewise linear car-following modeling. 2012 , 25, 100-112	15
1537	A modified coupled map car following model and its traffic congestion analysis. 2012 , 17, 4439-4445	36
1536	Controlling traffic jams on a two-lane road using delayed-feedback signals. 2012 , 13, 620-632	7
1535	References. 2012 , 453-510	

1534	Review on Traffic Flow Phenomena and Theory. 2012 , 12, 90-97		3
1533	A Car-following Model Based on Discrete Choice Theory. 2012 , 12, 31-38		8
1532	A class of multi-phase traffic theories for microscopic, kinetic and continuum traffic models. 2012 , 64, 2939-2953		27
1531	Detailed traffic animation for urban road networks. 2012 , 74, 265-282		36
1530	Influence of lateral discomfort on the stability of traffic flow based on visual angle car-following model. 2012 , 391, 5948-5959		10
1529	A study of wide moving jams in a new lattice model of traffic flow with the consideration of the driver anticipation effect and numerical simulation. 2012 , 391, 5971-5977		25
1528	Cellular automaton model in the fundamental diagram approach reproducing the synchronized outflow of wide moving jams. 2012 , 376, 2781-2787		32
1527	An improved car-following model considering influence of other factors on traffic jam. 2012 , 377, 9-12		42
1526	Distributed and Centralized Approaches for Cooperative Road Traffic Dynamics. 2012 , 48, 3198-3208		9
1525	Propagation speed of a starting wave in a queue of pedestrians. <i>Physical Review E</i> , 2012 , 86, 036113	2.4	7
1524	Integrated Lane Change Model with Relaxation and Synchronization. 2012 , 2316, 47-57		108
1523	Thirty Years of Gipps' Car-Following Model: Applications, Developments, and New Features. 2012 , 2315, 89-99		49
1522	Multianticipative Piecewise-Linear Car-Following Model. 2012 , 2315, 100-109		6
1521	Linear stability analysis of first-order delayed car-following models on a ring. <i>Physical Review E</i> , 2012 , 86, 036207	2.4	9
1520	Car following model based on drivers' delay effect and its simulation. 2012 ,		1
1519	STABILIZATION ANALYSIS OF A MULTIPLE LOOK-AHEAD MODEL WITH DRIVER REACTION DELAYS. 2012 , 23, 1250048		10
1518	A helicopter formation flying model in the low airspace with two telegraph poles and electrical wire. 2012 , 69, 399-408		7
1517	A single helicopter formation flying model in the low airspace with a parallel electrical wire network. 2012 , 69, 1159-1166		3

1516	Microscopic car-following model for the traffic flow: the state of the art. 2012 , 10, 133-143	57
1515	Evaluation of Car-following Models Using Trajectory Data from Real Traffic. 2012 , 43, 356-366	13
1514	An aircraft boarding model accounting for passengers' individual properties. 2012 , 22, 1-16	74
1513	A semi-discrete model and its approach to a solution for a wide moving jam in traffic flow. 2012 , 391, 456-463	40
1512	A new lattice model of traffic flow with the consideration of the traffic interruption probability. 2012 , 391, 656-663	72
1511	Effect of headway and velocity on safety collision transition induced by lane changing in traffic flow. 2012 , 391, 1626-1635	66
1510	Nonlinear analysis of traffic flow on a gradient highway. 2012 , 391, 954-965	62
1509	The KdVBurgers equation in speed gradient viscous continuum model. 2012 , 391, 1652-1656	11
1508	Cellular automaton model within the fundamental-diagram approach reproducing some findings of the three-phase theory. 2012 , 391, 3129-3139	41
1507	Staggered car-following induced by lateral separation effects in traffic flow. 2012 , 376, 153-157	55
1506	Multiple-vehicle collision induced by a sudden stop in traffic flow. 2012 , 376, 1803-1806	17
1505	Real-Time Lagrangian Traffic State Estimator for Freeways. 2012 , 13, 59-70	140
1504	A new fundamental diagram theory with the individual difference of the driver's perception ability. 2012 , 67, 2255-2265	93
1503	A new pedestrian-following model for aircraft boarding and numerical tests. 2012 , 67, 437-443	50
1502	Differential transform method for mathematical modeling of jamming transition problem in traffic congestion flow. 2012 , 20, 87-100	12
1501	On the stability analysis of microscopic traffic car-following model: a case study. 2013 , 74, 335-343	46
1500	Stabilization effect of multiple density difference in the lattice hydrodynamic model. 2013 , 73, 2197-2205	35
1499	Jamming transition of a two-dimensional traffic dynamics with consideration of optimal current difference. 2013 , 377, 2027-2033	73

1498	Exploring a Local Linear Model Tree Approach to Car-Following. 2013 , 28, 581-593		10
1497	Collective motion of oscillatory walkers. <i>Physical Review E</i> , 2013 , 88, 012808	2.4	
1496	Spontaneous phase transition from free flow to synchronized flow in traffic on a single-lane highway. <i>Physical Review E</i> , 2013 , 87, 012815	2.4	14
1495	Multi-robot coordination for jams in congested systems. 2013 , 61, 808-820		16
1494	A macro traffic flow model accounting for road capacity and reliability analysis. 2013 , 392, 6300-6306		29
1493	Coordinating actions in congestion games: impact of top-down and bottom-up utilities. 2013 , 27, 419-443		4
1492	Vehicle's fuel consumption of car-following models. 2013 , 56, 1307-1312		32
1491	An electric vehicle's battery life model under car-following model. 2013 , 46, 4226-4231		15
1490	A traffic flow model with overtaking as a Filippov system. 2013 , 254, 55-64		2
1489	Evaluation of Different Vehicle Following Models Under Mixed Traffic Conditions. 2013 , 104, 390-401		35
1488	Video-based personalized traffic learning. 2013 , 75, 305-317		24
1487	State-of-the art of macroscopic traffic flow modelling. 2013 , 5, 158-176		28
1486	Phase transition in traffic jam experiment on a circuit. 2013 , 15, 103034		66
1485	Modelling of lane-changing behaviour integrating with merging effect before a city road bottleneck. 2013 , 392, 5143-5153		18
1484	Solitons and kinks in a general car-following model. <i>Physical Review E</i> , 2013 , 88, 032804	2.4	6
1483	Simulating synchronized traffic flow and wide moving jam based on the brake light rule. 2013 , 392, 5399-5413		28
1482	The origin of traveling waves in an emperor penguin huddle. 2013 , 15, 125022		22
1481	Analysis of energy dissipation in traffic flow with a variable slope. 2013 , 392, 3301-3307		43

1480	The effect of moving bottlenecks on a two-lane traffic flow. 2013 , 22, 108902		10
1479	Nonlinear stability of traffic models and the use of Lyapunov vectors for estimating the traffic state. <i>Physical Review E</i> , 2013 , 88, 022901	2.4	13
1478	A microscopic lane changing process model for multilane traffic. 2013 , 392, 1142-1152		35
1477	Controlling traffic jams by time modulating the safety distance. <i>Physical Review E</i> , 2013 , 88, 042803	2.4	7
1476	Combining traffic and vehicle simulation for enhanced evaluations of powertrain related ADAS for trucks. 2013 ,		1
1475	A helicopter rescuing model with multipoints (I). 2013 , 74, 1093-1101		1
1474	Multiple-vehicle collision in traffic flow by a sudden slowdown. 2013 , 392, 1848-1857		66
1473	Criticism of generally accepted fundamentals and methodologies of traffic and transportation theory: A brief review. 2013 , 392, 5261-5282		112
1472	Vehicular Traffic Flow Dynamics on a Bus Route. 2013 , 11, 925-942		9
1471	Analyzing the impact of false-accident cyber attacks on traffic flow stability in connected vehicle environment. 2013 ,		4
1470	A novel method based on VANET for alleviating traffic congestion in urban transportations. 2013 ,		4
1469	Road Network Determination by Cellular Automata Traffic Flow Simulation. 2013 ,		
1468	Application of hierarchical Bayesian estimation to calibrating a car-following model with time-varying parameters. 2013 ,		4
1467	Electric vehicle's energy consumption of car-following models. 2013 , 71, 323-329		50
1466	Lattice hydrodynamic traffic flow model with explicit drivers' physical delay. 2013 , 71, 531-537		65
1465	A cellular automaton model based on empirical observations of a driver's oscillation behavior reproducing the findings from Kerner's three-phase traffic theory. 2013 , 392, 4009-4018		20
1464	A new car-following model with the consideration of anticipation optimal velocity. 2013 , 392, 3563-3569		146
1463	The KdVBurgers equation in a new continuum model with consideration of driver's forecast effect and numerical tests. 2013 , 377, 3193-3198		20

1462	New Car-Following Model considering Impacts of Multiple Lead Vehicle Types. 2013 , 2390, 131-137	6
1461	Experiment and Modelling for Pedestrian Following Behavior Using Velocity-headway Relation. 2013 , 62, 525-531	12
1460	Analysis of . 2013 , 392, 4787-4792	36
1459	Integrated macroscopic traffic flow, emission, and fuel consumption model for control purposes. 2013 , 31, 158-171	89
1458	Mobility Models, Topology, and Simulations in VANET. 2013 , 545-576	
1457	Sliding Mode Control of Crowd Dynamics. 2013 , 21, 1008-1015	17
1456	MOTION ENERGY DISSIPATION IN TRAFFIC FLOW ON A CURVED ROAD. 2013 , 24, 1350046	20
1455	Towards the bi-directional cellular automaton model with perception ranges. 2013 , 392, 3028-3038	8
1454	Derivation of Non-local Macroscopic Traffic Equations and Consistent Traffic Pressures from Microscopic Car-Following Models. 2013 , 247-269	
1453	Stabilization of traffic flow in optimal velocity model via delayed-feedback control. 2013 , 18, 1027-1034	43
1452	Full velocity difference and acceleration model for a car-following theory. 2013 , 18, 1229-1234	77
1451	Traffic dynamics in empirical probe vehicle data studied with three-phase theory: Spatiotemporal reconstruction of traffic phases and generation of jam warning messages. 2013 , 392, 221-251	59
1450	Safe distance car-following model including backward-looking and its stability analysis. 2013 , 86, 1	26
1449	Intelligent driving in traffic systems with partial lane discipline. 2013 , 86, 1	0
1448	Aircraft Ground-Taxiing Model for Congested Airport Using Cellular Automata. 2013 , 14, 180-188	27
1447	Climate adaptation of interconnected infrastructures: a framework for supporting governance. 2013 , 14, 919	14
1446	A New Extended Multiple Car-Following Model Considering the Backward-Looking Effect on Traffic Flow. 2013 , 8,	7
1445	Dynamic Congested Traffic States of Density Difference Lattice Hydrodynamic Model with On-Ramp. 2013 , 2013, 1-9	10

1444	The Departure Characteristics of Traffic Flow at the Signalized Intersection. 2013 , 2013, 1-11	2
1443	A Car-Following Model Based on Quantified Homeostatic Risk Perception. 2013 , 2013, 1-13	19
1442	Slope Effect in Traffic Flow with a Speed Difference. 2013 , 361-363, 2297-2303	0
1441	Additional Energy Dissipation of Vehicles on a Gradient Road. 2013 , 361-363, 2304-2307	
1440	Study on Aggression of Lane-Changing on Two-Lane Highway Including a Bus. 2013 , 444-445, 743-747	
1439	An Extended Non-Lane-Based Optimal Velocity Model with Dynamic Collaboration. 2013 , 2013, 1-8	4
1438	Simulation of Crossing Traffic Flow without Traffic Light Using Modified Full Velocity Difference Model. 2013 , 444-445, 1690-1694	
1437	A new coupled-map car-following model based on a transportation supernetwork framework. 2013 , 22, 060208	3
1436	An Extended Optimal Velocity Model of Traffic Flow with Backward Power Cooperation. 2013 , 336-338, 561-565	
1435	Simulating train movement in an urban railway based on an improved car-following model. 2013 , 22, 120206	14
1434	Simulation optimization for train movement on a single-track railway. 2013 , 22, 050205	5
1433	A weighted mean velocity feedback strategy in intelligent two-route traffic systems. 2013 , 22, 028901	7
1432	Feedback control scheme of traffic jams based on the coupled map car-following model. 2013 , 22, 090205	11
1431	PHASE TRANSITIONS AND THE KORTEWEG-DE VRIES EQUATION IN THE DENSITY DIFFERENCE LATTICE HYDRODYNAMIC MODEL OF TRAFFIC FLOW. 2013 , 24, 1350016	8
1430	Microscopic traffic dynamics and platoon control based on bond graph modeling. 2013 ,	1
1429	An improved car-following model for railway traffic. 2013 , 47, 475-482	3
1428	Estimating energy consumption of hybrid electric vehicle and gasoline classical vehicle. 2013 ,	4
1427	Stability analysis of symmetrical two-route traffic flow with feedback information delay. 2013 ,	

1426	Dynamic data driven event reconstruction for traffic simulation using sequential Monte Carlo methods. 2013,	4
1425	A Two-Dimensional Optimal Velocity Model for Unidirectional Pedestrian Flow Based on Pedestrian's Visual Hindrance Field. 2013, 14, 1753-1763	35
1424	Exchange interaction in the time headway model in critical traffic flow states. 2013,	1
1423	A new macro model for traffic flow considering the driver's delay effect. 2013,	
1422	A new lattice hydrodynamic model based on ITS environment. 2013,	
1421	AN EXTENDED MACROSCOPIC MODEL FOR TRAFFIC FLOW ON A HIGHWAY WITH SLOPES. 2013, 24, 1350061	17
1420	A SECTION APPROACH TO A TRAFFIC FLOW MODEL ON NETWORKS. 2013, 24, 1350018	78
1419	Optimal concentrations in transport systems. 2013, 10, 20130138	12
1418	Real-time prediction of battery power requirements for electric vehicles. 2013,	40
1417	Comparative Analysis of Car-Following Models for Emissions Estimation. 2013, 2341, 12-22	19
1416	Traffic Accident Propagation Properties and Control Measures for Urban Links Based on Cellular Automata. 2013, 5, 905640	2
1415	Cooperative Highway Traffic: Multiagent Modeling and Robustness Assessment of Local Perturbations. 2013, 2391, 1-10	25
1414	Reactive Clustering Method for Platooning Autonomous Mobile Robots. 2013, 46, 152-157	3
1413	Line-of-Sight Obstruction Analysis for Vehicle-to-Vehicle Network Simulations in a Two-Lane Highway Scenario. 2013, 2013, 1-9	8
1412	Traffic experiment reveals the nature of car-following. 2014, 9, e94351	94
1411	Effects of Car Accidents on Three-Lane Traffic Flow. 2014, 2014, 1-11	3
1410	Smart Traffic Analytics in the Semantic Web with Star-City: Scenarios, System and Lessons Learned in Dublin City. 2014,	
1409	COUPLING TRAFFIC FLOW NETWORKS TO PEDESTRIAN MOTION. 2014, 24, 359-380	29

1408	Analysis of drivers' characteristics in car-following theory. 2014 , 28, 1450191	22
1407	Vehicle's exhaust emissions under car-following model. 2014 , 25, 1450007	10
1406	Effect of intelligent control strategy on safety-collision region of lane changing. 2014 , 25, 1450041	1
1405	Stability Analysis for Car Following Model Based on Control Theory. 2014 , 61, 636-640	8
1404	. 2014 ,	1
1403	BighamMiddletonErvine model in consideration of cooperative willingness. 2014 , 23, 058902	3
1402	A control method applied to mixed traffic flow for the coupled-map car-following model. 2014 , 23, 030507	7
1401	The Stability Analysis for an Extended Car Following Model Based on Control Theory. 2014 , 31, 080505	7
1400	Multijam Solutions in Traffic Models with Velocity-Dependent Driver Strategies. 2014 , 74, 1895-1918	3
1399	The Burgers Equation for a New Continuum Model with Consideration of Driver's Forecast Effect. 2014 , 2014, 1-7	1
1398	Evaluation of Car-Following Models Based on Measured Data from Real Traffic. 2014 , 701-702, 124-128	
1397	A Car-Following Model Considering Effects of Weather and Road Conditions. 2014 , 488-489, 1289-1294	
1396	Anticipation Driving Behavior in Car Following Theory. 2014 , 505-506, 1133-1136	
1395	. 2014 ,	
1394	STAR-CITY. 2014 ,	22
1393	Traffic Network Design for Disaster Evacuation by Cellular Automata Simulation. 2014 ,	1
1392	Velocity difference control based on dynamic tracking of safe following distance in the process of vehicle following. 2014 , 8, 232-243	6
1391	A traffic congestion control method in the cyber physical systems. 2014 ,	

1390	Extracting characteristics of traffic flow in bottlenecks with exchange interactions in time headway. 2014,	1
1389	AA-FVDM: An accident-avoidance full velocity difference model for animating realistic street-level traffic in rural scenes. 2014, 25, 83-97	12
1388	Existence and Nonexistence of Semidiscrete Shocks for a Car-Following Model in Traffic Flow. 2014, 46, 3612-3639	0
1387	Stabilization strategies of a general nonlinear car-following model with varying reaction-time delay of the drivers. 2014, 53, 1739-45	26
1386	A macro model for traffic flow on road networks with varying road conditions. 2014, 48, 304-317	59
1385	The root locus method: application to linear stability analysis and design of cooperative car-following models. 2014, 2, 60-82	26
1384	An extended traffic flow model on a gradient highway with the consideration of the relative velocity. 2014, 78, 1765-1779	55
1383	Analysis of the scope of cooperative bandwidth sharing among mobile routers in vehicular networks. 2014, 2014,	
1382	Nonlinear Analysis of a New Extended Lattice Model With Consideration of Multi-Anticipation and Driver Reaction Delays. 2014, 9,	4
1381	Stability Analysis of a Car-Following Model on Two Lanes. 2014, 2014, 1-9	5
1380	A new car-following model considering the related factors of a gyroidal road. 2014, 393, 101-111	78
1379	Fractal behavior in the headway fluctuation simulated by the NaSch model. 2014, 398, 187-193	7
1378	An extended car-following model at signalized intersections. 2014, 407, 152-159	63
1377	The time-dependent Ginzburg-Andau equation for car-following model considering anticipation-driving behavior. 2014, 76, 1497-1501	23
1376	A new lattice hydrodynamic model for two-lane traffic with the consideration of density difference effect. 2014, 75, 27-34	48
1375	Invariance and homogenization of an adaptive time gap car-following model. 2014, 21, 491-517	3
1374	TDGL equation in lattice hydrodynamic model considering driver's physical delay. 2014, 76, 441-445	58
1373	A survey on modeling and simulation of vehicular networks: Communications, mobility, and tools. 2014, 43, 1-15	47

1372	Multiple-vehicle collision induced by lane changing in traffic flow. 2014 , 404, 171-179	41
1371	Effects of intelligent control mechanism on multiple-vehicle collision under emergency. 2014 , 404, 16-25	8
1370	Shaping traffic flow with a ratio of time constants. 2014 , 4,	
1369	A new car-following model with consideration of inter-vehicle communication. 2014 , 76, 2017-2023	164
1368	An extended multi-anticipative delay model of traffic flow. 2014 , 19, 3128-3135	34
1367	Study on traffic states and jamming transitions for two-lane highway including a bus by using a model with calibrated optimal velocity function. 2014 , 406, 12-23	2
1366	Nonlinear analysis of the optimal velocity difference model with reaction-time delay. 2014 , 396, 77-87	40
1365	Effect of slow-to-start in the extended BML model with four-directional traffic. 2014 , 378, 1455-1460	11
1364	Electric vehicle electricity consumption on a road with different slope. 2014 , 402, 41-48	31
1363	A car-following model with real-time road conditions and numerical tests. 2014 , 48, 63-76	89
1362	A novel macro model of traffic flow with the consideration of anticipation optimal velocity. 2014 , 398, 76-82	57
1361	A new car-following model with two delays. 2014 , 378, 348-357	31
1360	Stop-and-go traffic analysis: Theoretical properties, environmental impacts and oscillation mitigation. 2014 , 70, 319-339	80
1359	Reducing the Error Accumulation in Car-Following Models Calibrated With Vehicle Trajectory Data. 2014 , 15, 148-157	23
1358	Implicit Methods for Equation-Free Analysis: Convergence Results and Analysis of Emergent Waves in Microscopic Traffic Models. 2014 , 13, 1202-1238	24
1357	Collision-free nonuniform dynamics within continuous optimal velocity models. <i>Physical Review E</i> , 2014 , 90, 042812	2.4 18
1356	. 2014 , 15, 2001-2013	59
1355	Jam formation with lane changing at two tollgates on a highway. 2014 , 416, 596-603	5

1354	An extended car-following model with consideration of the reliability of inter-vehicle communication. 2014 , 58, 286-293	107
1353	. 2014 , 15, 878-888	75
1352	Duality and network theory in passivity-based cooperative control. 2014 , 50, 2051-2061	57
1351	A car-following model accounting for the driver's attribution. 2014 , 413, 583-591	105
1350	A probabilistic stationary speed-density relation based on Newell's simplified car-following model. 2014 , 68, 205-223	51
1349	Dynamic behavior in two-route bus traffic system with real-time information. 2014 , 413, 352-360	3
1348	Analytical studies of . 2014 , 413, 320-328	5
1347	Smart traffic analytics in the semantic web with STAR-CITY: Scenarios, system and lessons learned in Dublin City. 2014 , 27-28, 26-33	43
1346	Incorporating human-factors in car-following models: A review of recent developments and research needs. 2014 , 48, 379-403	216
1345	TDGL and mKdV equations for car-following model considering driver's anticipation. 2014 , 77, 1245-1250	28
1344	The velocity difference control signal for two-lane car-following model. 2014 , 78, 585-596	5
1343	Phase transition in a two-dimensional triangular flow with consideration of optimal current difference effect. 2014 , 78, 957-968	61
1342	A speed feedback control strategy for car-following model. 2014 , 413, 343-351	61
1341	An improved car-following model with consideration of the lateral effect and its feedback control research. 2014 , 23, 020503	7
1340	Traffic accidents on a single-lane road with multi-slowdown sections. 2014 , 25, 1450036	12
1339	Multianticipative Nonlocal Macroscopic Traffic Model. 2014 , 29, 248-263	32
1338	An original traffic flow model with signal effect for energy dissipation. 2014 , 25, 1450018	13
1337	Multilevel Modeling of the Traffic Dynamic. 2014 , 15, 1066-1082	18

1336	Effect of interactions between vehicles and pedestrians on fuel consumption and emissions. 2014 , 416, 661-675		11
1335	Microscopic cooperative traffic flow: calibration and simulation based on a next generation simulation dataset. 2014 , 8, 519-525		45
1334	A new car-following model with consideration of the prevision driving behavior. 2014 , 19, 3820-3826		40
1333	Proportional differential effects in traffic car-following model system. 2014 , 406, 89-99		30
1332	Stability analysis of the mixed traffic flow of cars and trucks using heterogeneous optimal velocity car-following model. 2014 , 395, 371-383		29
1331	Steady-state traffic flow on a ring road with up- and down-slopes. 2014 , 403, 85-93		10
1330	Theoretical analysis of the density wave in a new continuum model and numerical simulation. 2014 , 402, 283-290		24
1329	Stability analysis of dynamic collaboration model with control signals on two lanes. 2014 , 19, 4148-4160		26
1328	Feedback control for car following model based on two-lane traffic flow. 2014 , 408, 28-39		42
1327	Kinetic Monte Carlo simulations of one-dimensional and two-dimensional traffic flows: comparison of two look-ahead rules. <i>Physical Review E</i> , 2014 , 89, 052810	2.4	11
1326	Brake light cellular automaton model with advanced randomization for traffic breakdown. 2014 , 44, 282-298		36
1325	Artificial Neural Network Models for Car Following: Experimental Analysis and Calibration Issues. 2014 , 18, 5-16		51
1324	. 2014 ,		1
1323	Study on a modified coupled map car following model and its dynamics. 2014 ,		
1322	Calibration of Nonlinear Car-Following Laws for Traffic Oscillation Prediction. 2015 , 9, 21-35		1
1321	. 2015 ,		8
1320	On Traffic Relaxation, Anticipation, and Hysteresis. 2015 , 2491, 90-97		6
1319	Influences of the driver's bounded rationality on micro driving behavior, fuel consumption and emissions. 2015 , 41, 423-432		170

1318 Real traffic data-driven animation simulation. **2015,**

1317	Classification and unification of the microscopic deterministic traffic models. <i>Physical Review E</i> , 2015 , 92, 042802	2.4	8
1316	Jamming transitions in force-based models for pedestrian dynamics. <i>Physical Review E</i> , 2015 , 92, 042809	2.4	18
1315	Microscopic theory of traffic-flow instability governing traffic breakdown at highway bottlenecks: Growing wave of increase in speed in synchronized flow. <i>Physical Review E</i> , 2015 , 92, 062827	2.4	34
1314	Lane Changing Execution Modeling Based on Car Following Theory. 2015,		
1313	A Novel Lattice Model on a Gradient Road With the Consideration of Relative Current. 2015 , 10,		1
1312	Mutual and asynchronous anticipation and action in sports as globally competitive and locally coordinative dynamics. 2015 , 5, 16140		16
1311	Percolation properties in a traffic model. 2015 , 112, 38001		15
1310	Vehicle-pedestrian interaction for mixed traffic simulation. 2015 , 26, 405-412		23
1309	A Campus Traffic Congestion Detecting Method Based on BP Neural Network. 2015,		1
1308	Design and Implementation of Simulation System for Signalized Intersection with Tram Priority. 2015,		
1307	Establishment, maintenance, and re-establishment of the safe and efficient steady-following state. 2015 , 24, 088901		0
1306	A New Macro Model Considering the Average Speed of Preceding Vehicles Group in CPS Environment. 2015 , 2015, 1-6		1
1305	Traffic Congestion Mitigation Using Intelligent Driver Model (IDM) Combined with Lane Changes - Why Congestion Detection is So Needed?. 2015,		4
1304	Synchronization Transition and Traffic Congestion in One-Dimensional Traffic Model. 2015 , 2015, 1-10		1
1303	Continuum Model for Traffic Flow considering Safe Driving Awareness Heterogeneity. 2015 , 2015, 1-6		2
1302	A New Car-Following Model with the Consideration of the Leader's Acceleration. 2015 , 738-739, 489-492		
1301	A macro traffic flow model accounting for real-time traffic state. 2015 , 437, 55-67		35

1300	A general framework for calibrating and comparing car-following models. 2015 , 11, 420-440	14
1299	Traffic behavior of mixed traffic flow with two kinds of different self-stabilizing control vehicles. 2015 , 436, 729-738	17
1298	An extended optimal velocity difference model in a cooperative driving system. 2015 , 26, 1550054	1
1297	An improved car-following model with two preceding cars' average speed. 2015 , 26, 1550094	5
1296	Stochastic Headway Dependent Velocity Model and Phase Separation in Pedestrian Dynamics. 2015 , 281-289	
1295	A novel car following model considering average speed of preceding vehicles group. 2015 , 436, 103-109	29
1294	Pinning control of a new car-following model with the consideration of preceding and following cars. 2015 ,	1
1293	The Foresighted Driver Model. 2015 ,	28
1292	A new psychological methodology for modeling real-time car following maneuvers. 2015 , 2, 124-130	9
1291	Model and Stability of the Traffic Flow Consisting of Heterogeneous Drivers. 2015 , 10,	2
1290	Percolation transition in dynamical traffic network with evolving critical bottlenecks. 2015 , 112, 669-72	257
1289	The new car following model considering vehicle dynamics influence and numerical simulation. 2015 , 26, 1550081	2
1288	Congestion phenomenon analysis and delayed-feedback control in a modified coupled map traffic flow model containing the velocity difference. 2015 , 23, 175-184	6
1287	Dynamics of connected cruise control systems considering velocity changes with memory feedback. 2015 , 64, 34-48	76
1286	Effects of the lattice point drivers' heterogeneity of the disturbance risk preference on traffic flow instability. 2015 , 424, 113-123	5
1285	Analysis of two-lane lattice hydrodynamic model with consideration of drivers' characteristics. 2015 , 422, 16-24	40
1284	A new car following model from the perspective of visual imaging. 2015 , 26, 1550090	8
1283	A speed gradient viscous continuum model with the consideration of coupling effect for two-lane freeways. 2015 , 26, 1550014	1

1282	Asymmetric effect on single-file dense pedestrian flow. 2015 , 26, 1550064	5
1281	Nonlinear analysis of lattice model with the consideration of multiple optimal current differences for two-lane freeway. 2015 , 29, 1550006	5
1280	Non-lane-discipline-based car-following model considering the effects of two-sided lateral gaps. 2015 , 80, 227-238	54
1279	Analyses of vehicle's self-stabilizing effect in an extended optimal velocity model by utilizing historical velocity in an environment of intelligent transportation system. 2015 , 80, 529-540	47
1278	A modified two-lane traffic model considering drivers' personality. 2015 , 428, 359-367	16
1277	Multiple density difference effect in the two-lane lattice hydrodynamic model. 2015 , 79, 1991-2003	10
1276	Analysis of average density difference effect in a new two-lane lattice model. 2015 , 26, 1550062	9
1275	Impacts of the vehicle's fuel consumption and exhaust emissions on the trip cost allowing late arrival under car-following model. 2015 , 431, 52-62	37
1274	Lattice hydrodynamic model based delay feedback control of vehicular traffic flow considering the effects of density change rate difference. 2015 , 29, 224-232	45
1273	KdV-Burgers equation in the modified continuum model considering anticipation effect. 2015 , 438, 26-31	21
1272	A simple nonparametric car-following model driven by field data. 2015 , 80, 185-201	75
1271	A new car-following model considering driver's sensory memory. 2015 , 427, 218-225	34
1270	Asymmetric optimal-velocity car-following model. 2015 , 436, 565-571	14
1269	Modified Couple Map Car-Following Model Based on Two Preceding Vehicles Information. 2015 , 738-739, 267-270	
1268	Holistic Calibration of Microscopic Traffic Flow Models: Methodology and Real World Application Studies. 2015 , 33-52	7
1267	Simulation Optimization of Car-Following Models Using Flexible Techniques. 2015 , 87-106	0
1266	A two-lane lattice hydrodynamic model considering multiple information of preceding cars. 2015 , 81, 1907-1919	9
1265	Influence of the traffic interruption probability on traffic stability in lattice model for two-lane freeway. 2015 , 436, 952-959	23

1264	Analyzing the travel time of car-following model on an open road. 2015 , 29, 1550055	11
1263	An extended lattice model for two-lane traffic flow with consideration of the slope effect. 2015 , 29, 1550017	4
1262	An anisotropic continuum model considering bi-directional information impact. 2015 , 75, 36-57	28
1261	An extended car-following model considering vehicular gap fluctuation. 2015 , 70, 137-147	62
1260	The effects of vehicular gap changes with memory on traffic flow in cooperative adaptive cruise control strategy. 2015 , 428, 206-223	64
1259	Towards data-driven car-following models. 2015 , 55, 496-509	74
1258	An extended visual angle model for car-following theory. 2015 , 81, 549-560	22
1257	Analysis of anticipation driving effect in traffic lattice hydrodynamic model with on-ramp. 2015 , 81, 907-916	10
1256	Detailed string stability analysis for bi-directional optimal velocity model. 2015 , 22, 1563-1573	1
1255	Delay-feedback control strategy for reducing . 2015 , 428, 481-492	22
1254	Analysis of a Car-Following Model with Driver Memory Effect. 2015 , 25, 1550057	2
1253	Analysis of a new two-lane lattice hydrodynamic model with consideration of the global average flux. 2015 , 81, 1623-1633	15
1252	Asymmetric effect of route-length difference and bottleneck on route choice in two-route traffic system. 2015 , 428, 416-425	18
1251	An extended car-following model with consideration of the electric vehicle's driving range. 2015 , 430, 148-155	51
1250	A State-of-the-Art Review of Car-Following Models with Particular Considerations of Heavy Vehicles. 2015 , 35, 82-105	53
1249	A novel lattice traffic flow model on a curved road. 2015 , 26, 1550121	15
1248	The car following model considering traffic jerk. 2015 , 433, 274-278	48
1247	An extended helicopter's rescuing model with multiple points. 2015 , 29, 1550020	5

1246	Physicochemical design and analysis of self-propelled objects that are characteristically sensitive to environments. 2015 , 17, 10326-38	82
1245	Leveraging longitudinal driving behaviour data with data mining techniques for driving style analysis. 2015 , 9, 792-801	38
1244	Analyzing trip cost allowing late arrival under car-following model. 2015 , 29, 1550157	18
1243	Study on traffic characteristics for a typical expressway on-ramp bottleneck considering various merging behaviors. 2015 , 440, 57-67	12
1242	Traffic Flow Analysis Dovetailed with Evolutionary Game Theory. 2015 , 159-182	3
1241	MODELING TRAFFIC FLUCTUATIONS AND CONGESTION ON A ROAD NETWORK. 2015 , 18, 1550009	2
1240	Evaluating the energy consumption of electric vehicles based on car-following model under non-lane discipline. 2015 , 82, 629-641	33
1239	Review of Urban Traffic Congestion Formation and Diffusion Mechanism. 2015 ,	1
1238	Emission Mitigation via Longitudinal Control of Intelligent Vehicles in a Congested Platoon. 2015 , 30, 490-506	27
1237	Longitudinal driving behaviour on different roadway categories: an instrumented-vehicle experiment, data collection and case study in China. 2015 , 9, 555-563	17
1236	A Macroscopic Traffic Data-Assimilation Framework Based on the Fourier-Galerkin Method and Minimax Estimation. 2015 , 16, 452-464	5
1235	Effect of vehicular technology on energy consumption and emissions. 2015 , 72, 667-684	2
1234	Demonstration of disturbance propagation and amplification in car-following situation for enhancement of vehicle platoon system. 2015 ,	1
1233	Analyzing trip cost with no late arrival under car-following model. 2015 , 64, 123-129	22
1232	Analysis of car-following behaviors considering the green signal countdown device. 2015 , 82, 731-740	45
1231	Performance Evaluation of Transit Signal Priority Strategies for BRT in Taichung: A Simulation Approach. 2015 ,	
1230	A new car-following model considering driver's individual anticipation behavior. 2015 , 82, 1293-1302	19
1229	Impact of driving aggressiveness on the traffic stability based on an extended optimal velocity model. 2015 , 81, 2059-2070	10

1228	A modified full velocity difference model based on time to collision as a safety indicator for braking state. 2015,	2
1227	Traffic stability of a car-following model considering driver's desired velocity. 2015, 29, 1550097	5
1226	On some experimental features of car-following behavior and how to model them. 2015, 80, 338-354	122
1225	The driver's anticipation effect with passing in lattice model for two-lane freeway. 2015, 29, 1550174	6
1224	Improving the Efficacy of Car-Following Models With a New Stochastic Parameter Estimation and Calibration Method. 2015, 16, 2687-2699	22
1223	Macroscopic modeling for traffic flow on three-lane highways. 2015, 26, 1550127	2
1222	Speed-spacing dependency on relative speed from the adjacent lane: New insights for car following models. 2015, 82, 74-90	13
1221	Microscopic driving theory with oscillatory congested states: Model and empirical verification. 2015, 71, 138-157	58
1220	An improved car-following model considering headway changes with memory. 2015, 421, 1-14	53
1219	Lattice hydrodynamic modeling of two-lane traffic flow with timid and aggressive driving behavior. 2015, 421, 401-411	102
1218	Jamming transitions and the effect of interruption probability in a lattice traffic flow model with passing. 2015, 421, 249-260	114
1217	Linear stability of a generalized multi-anticipative car following model with time delays. 2015, 22, 420-426	79
1216	The control method for the lattice hydrodynamic model. 2015, 22, 903-908	77
1215	Chain-reaction crash in traffic flow controlled by taillights. 2015, 419, 1-6	48
1214	Comparing numerical integration schemes for time-continuous car-following models. 2015, 419, 183-195	28
1213	Genealogy of traffic flow models. 2015, 4, 445-473	105
1212	A modified control method for congested traffic in car-following model. 2015, 3, 457-462	8
1211	RETRACTED ARTICLE: Stability analysis of dynamic collaboration model under two-lane case. 2015, 81, 1021-1021	4

1210	Exploratory Study on Correlation Between Twitter Concentration and Traffic Surges. 2016 , 2553, 90-98	16
1209	Comparing First-Order Microscopic and Macroscopic Crowd Models for an Increasing Number of Massive Agents. 2016 , 2016, 1-17	2
1208	Asymptotic Stability Analysis of Binary Heterogeneous Traffic Based on Car-Following Model. 2016 , 2016, 1-9	
1207	Analyzing the Impact of Trucks on Traffic Flow Based on an Improved Cellular Automaton Model. 2016 , 2016, 1-14	14
1206	Non-lane-discipline-based car-following model considering the effect of visual angle. 2016 , 85, 1901-1912	29
1205	Generating Believable Mixed-Traffic Animation. 2016 , 17, 3171-3183	7
1204	Quantitative explanation of circuit experiments and real traffic using the optimal velocity model. 2016 , 18, 043040	13
1203	Study on the influence of driving distraction on traffic flow considering the stochastic duration time of distraction. 2016 , 30, 1650380	3
1202	Comparative study of different Fuzzy-Neural configurations for autonomous vehicle following algorithm. 2016 ,	0
1201	Scaling from Circuit Experiment to Real Traffic Based on Optimal Velocity Model. 2016 , 523-530	
1200	Challenges in Applying Calibration Methods to Stochastic Traffic Models. 2016 , 2560, 10-16	3
1199	The effects of drivers' aggressive characteristics on traffic stability from a new car-following model. 2016 , 30, 1650243	12
1198	Feedback control strategy of a new car-following model based on reducing traffic accident rates. 2016 , 39, 801-812	4
1197	A Cellular Automata (CA) Model for Two-Way Vehicle Flows on Low-Grade Roads Without Hard Separation. 2016 , 8, 43-53	6
1196	Kinetic theory of vehicular traffic. 2016 , 84, 135-145	9
1195	Stability analysis for the lattice model considering the effects of bilateral gaps. 2016 ,	
1194	Synchronization and local convergence analysis of networks with dynamic diffusive coupling. 2016 , 26, 116308	4
1193	. 2016 ,	

1192	Modeling traffic flow using simulation and Big Data analytics. 2016,	3
1191	Discrete event simulation of green supply chain with traffic congestion factor. 2016,	1
1190	White and relaxed noises in optimal velocity models for pedestrian flow with stop-and-go waves. 2016, 49, 185101	20
1189	An improved car-following model considering the influence of optimal velocity for leading vehicle. 2016, 85, 1469-1478	11
1188	A Simplified Car-following Model Based on the Artificial Potential Field. 2016, 137, 13-20	16
1187	Mobility and environment improvement of signalized networks through Vehicle-to-Infrastructure (V2I) communications. 2016, 68, 70-82	62
1186	A computational study of a variant of the Optimal Velocity Model with no collisions. 2016,	
1185	Evaluating the performance of vehicular platoon control under different network topologies of initial states. 2016, 450, 359-368	45
1184	Analysis of traffic flow based on car-following theory: a cyber-physical perspective. 2016, 84, 881-893	18
1183	Model predictive controlBased cooperative lane change strategy for improving traffic flow. 2016, 8, 168781401663299	16
1182	The effect of driver's characteristics on the stability of traffic flow under honk environment. 2016, 84, 1517-1528	22
1181	A car-following model considering the effect of electronic throttle opening angle under connected environment. 2016, 85, 2115-2125	50
1180	Nonlinear analysis of a new car-following model accounting for the optimal velocity changes with memory. 2016, 40, 197-205	60
1179	A compound compensation method for car-following model. 2016, 39, 427-441	76
1178	Stability analysis in a car-following model with reaction-time delay and delayed feedback control. 2016, 459, 107-116	25
1177	Modeling and analyses of driver's characteristics in a traffic system with passing. 2016, 86, 2093-2104	40
1176	Cellular automaton model simulating spatiotemporal patterns, phase transitions and concave growth pattern of oscillations in traffic flow. 2016, 93, 560-575	70
1175	On the equivalence between continuum and car-following models of traffic flow. 2016, 93, 543-559	26

1174	Research on campus traffic congestion detection using BP neural network and Markov model. 2016 , 31, 54-60	19
1173	Empirical analysis and simulation of the concave growth pattern of traffic oscillations. 2016 , 93, 338-354	65
1172	An electricity consumption model for electric vehicular flow. 2016 , 30, 1650325	3
1171	. 2016 , 1-7	31
1170	Nonlinear analysis of a new car-following model accounting for the global average optimal velocity difference. 2016 , 30, 1650327	5
1169	Stability analysis of coupled map car-following model with varying time-delays of drivers. 2016 ,	
1168	Stability analysis of the car-following model considering the effects of lateral gap and visual angle. 2016 ,	0
1167	Driving Behaviors: Models and Challenges for Non-Lane Based Mixed Traffic. 2016 , 2, 1	31
1166	The influence of the non-motor vehicles for the car-following model considering traffic jerk. 2016 , 463, 376-382	23
1165	Effect of optimal estimation of flux difference information on the lattice traffic flow model. 2016 , 463, 394-399	9
1164	A new car-following model with consideration of the velocity difference between the current speed and the historical speed of the leading car. 2016 , 464, 267-277	33
1163	A novel CPS-based vehicle safety state evaluation scheme. 2016 , 169, 12-23	3
1162	Calibration of nonlinear car-following laws for traffic oscillation prediction. 2016 , 69, 328-342	8
1161	An improved car-following model considering the immediately ahead car's velocity difference. 2016 , 461, 446-455	27
1160	The effects of velocity difference changes with memory on the dynamics characteristics and fuel economy of traffic flow. 2016 , 461, 613-628	19
1159	Lattice hydrodynamic model based traffic control: A transportation cyber-physical system approach. 2016 , 461, 795-801	11
1158	Cluster statistics and quasisoliton dynamics in microscopic optimal-velocity models. <i>Physical Review E</i> , 2016 , 93, 042212	2.4
1157	Improved 2D intelligent driver model in the framework of three-phase traffic theory simulating synchronized flow and concave growth pattern of traffic oscillations. 2016 , 41, 55-65	35

1156	Hopf bifurcation analysis for a dissipative system with asymmetric interaction: Analytical explanation of a specific property of highway traffic. <i>Physical Review E</i> , 2016 , 93, 012215	2.4	3
1155	Simulation model of speed control for the moving-block systems under ERTMS Level 3. 2016 ,		5
1154	Efficient intersection control for minimally guided vehicles: A self-organised and decentralised approach. 2016 , 72, 283-305		19
1153	Characterizing and distinguishing free and jammed traffic flows from the distribution and correlation of experimental speed data. 2016 , 18, 083022		6
1152	Coexistence of up- and downstream traffic waves on a ring road. 2016 , 225, 1127-1141		1
1151	Effects of vehicle-pedestrian interaction and speed limit on traffic performance of intersections. 2016 , 460, 335-347		13
1150	Effect of explicit lane changing in traffic lattice hydrodynamic model with interruption. 2016 , 86, 269-282		19
1149	A new multi-anticipative car-following model with consideration of the desired following distance. 2016 , 85, 2705-2717		30
1148	A sliding mode controller for vehicular traffic flow. 2016 , 462, 38-47		17
1147	Pattern formation in annular systems of repulsive particles. 2016 , 380, 166-170		3
1146	Micro-simulation model of two-lane freeway vehicles for obtaining traffic flow characteristics including safety condition. 2016 , 24, 187-195		2
1145	A Novel Velocity-Separation Difference Model for Traffic Flow Theory. 2016 , 3-10		1
1144	Analyzing human driving data an approach motivated by data science methods. 2016 , 90, 37-45		6
1143	An adaptive framework to enhance microscopic traffic modelling: an online neuro-fuzzy approach. 2016 , 230, 1767-1779		3
1142	The influence of bus stop on traffic flow with velocity-difference-separation model. 2016 , 27, 1650135		4
1141	A cellular automata (CA) model for motorized vehicle flows influenced by bicycles along the roadside. 2016 , 50, 949-966		12
1140	Self-organized traffic flow at the lightless intersection: algorithms, policies and simulations of the environmental impact. 2016 , 18, 1443-1455		2
1139	A modified full velocity difference model with the consideration of velocity deviation. 2016 , 27, 1650069		5

1138	Group chase and escape model with chasers' interaction. 2016 , 447, 172-179	6
1137	An improved car-following model considering velocity fluctuation of the immediately ahead car. 2016 , 449, 1-17	47
1136	Analysis of car-following model with cascade compensation strategy. 2016 , 449, 265-274	91
1135	Empirical evidence and stability analysis of the linear car-following model with gamma-distributed memory effect. 2016 , 449, 311-323	15
1134	Clustered car-following strategy for improving car-following stability under Cooperative Vehicles Infrastructure Systems. 2016 , 10, 141-147	9
1133	An improved car-following model considering relative velocity fluctuation. 2016 , 36, 319-326	62
1132	Numerical homogenization of a second order discrete model for traffic flow. 2016 , 71, 29-45	
1131	Effect of forward looking sites on a multi-phase lattice hydrodynamic model. 2016 , 445, 150-160	111
1130	Influences of vehicles' fuel consumption and exhaust emissions on the trip cost without late arrival under car-following model. 2016 , 27, 1650011	19
1129	Analytical studies on a new lattice hydrodynamic traffic flow model with consideration of traffic current cooperation among three consecutive sites. 2016 , 27, 1650034	15
1128	Lane-changing behavior and its effect on energy dissipation using full velocity difference model. 2016 , 27, 1650013	7
1127	Linear and nonlinear stability analysis of a car-following model considering velocity difference of two adjacent lanes. 2016 , 84, 387-397	21
1126	Analysis of the traditional vehicle's running cost and the electric vehicle's running cost under car-following model. 2016 , 30, 1650084	18
1125	Failure of classical traffic flow theories: Stochastic highway capacity and automatic driving. 2016 , 450, 700-747	84
1124	Analytical studies on an extended car following model for mixed traffic flow with slow and fast vehicles. 2016 , 27, 1650004	9
1123	Simulation-assisted exploration of charging infrastructure requirements for electric vehicles in urban environments. 2016 , 12, 1-10	23
1122	Effect of stochastic transition in the fundamental diagram of traffic flow. 2016 , 87, 1-13	14
1121	New full velocity difference model considering the driver's heterogeneity of the disturbance risk preference for car-following theory. 2016 , 30, 1550241	2

1120	Review and New Insights of the Car-Following Model for Road Vehicle Traffic Flow. 2016 , 87-96	1
1119	TDGL and mKdV equations for car-following model considering traffic jerk. 2016 , 83, 793-800	15
1118	The study for continuum model considering traffic jerk effect. 2016 , 83, 57-64	23
1117	The effect of interruption probability in lattice model of two-lane traffic flow with passing. 2016 , 27, 1650050	3
1116	Stabilization effect of multiple drivers' desired velocities in car-following theory. 2016 , 442, 532-540	13
1115	A macro-model for traffic flow with consideration of driver's reaction time and distance. 2016 , 83, 1621-1628	22
1114	Impacts of SOC on car-following behavior and travel time in the heterogeneous traffic system. 2016 , 441, 221-229	39
1113	Traffic jam at adjustable tollgates controlled by line length. 2016 , 442, 131-136	19
1112	Analysis of a novel two-lane lattice model on a gradient road with the consideration of relative current. 2016 , 33, 1-18	24
1111	A new car-following model with the consideration of incorporating timid and aggressive driving behaviors. 2016 , 442, 197-202	45
1110	Modelling car-following behaviour with lateral separation and overtaking expectation. 2016 , 4, 223-239	10
1109	A vehicle type-dependent visual imaging model for analysing the heterogeneous car-following dynamics. 2016 , 4, 68-85	11
1108	Optimal velocity model with dual boundary optimal velocity function. 2017 , 5, 211-227	5
1107	Multi anticipative bidirectional macroscopic traffic model considering cooperative driving strategy. 2017 , 5, 96-110	7
1106	Cellular Automaton Model with Dynamical 2D Speed-Gap Relation. 2017 , 51, 807-822	31
1105	A heterogeneous traffic flow model consisting of two types of vehicles with different sensitivities. 2017 , 42, 132-145	30
1104	Analysis of vehicle's safety envelope under car-following model. 2017 , 474, 127-133	43
1103	Vehicle headway modeling and its inferences in macroscopic/microscopic traffic flow theory: A survey. 2017 , 76, 170-188	71

1102	An extended car-following model accounting for the average headway effect in intelligent transportation system. 2017 , 471, 778-787	40
1101	A new lattice hydrodynamic model considering the effects of bilateral gaps on vehicular traffic flow. 2017 , 87, 1-11	57
1100	A mesoscopic approach on stability and phase transition between different traffic flow states. 2017 , 89, 59-68	7
1099	TDGL and mKdV equations for car-following model considering traffic jerk and velocity difference. 2017 , 87, 1809-1817	49
1098	Modeling of Human Behavior Within the Paradigm of Modern Physics. 2017 , 213-249	
1097	Feedback control for the lattice hydrodynamics model with drivers' reaction time. 2017 , 88, 145-156	20
1096	An extended continuum model accounting for the driver's timid and aggressive attributions. 2017 , 381, 1302-1312	121
1095	Real-virtual fusion model for traffic animation. 2017 , 28, e1740	2
1094	Emergent Phenomena Caused by Bounded Capacity of Human Cognition. 2017 , 251-344	
1093	A New Car-Following Model Based on the Epsilon-Support Vector Regression Method using the Parameters Tuning and Data Scaling Techniques. 2017 , 15, 1159-1172	1
1092	Stability Analysis in a Curved Road Traffic Flow Model Based on Control Theory. 2017 , 19, 1844	8
1091	An electric vehicle driving behavior model in the traffic system with a wireless charging lane. 2017 , 481, 119-126	14
1090	Theoretical analysis of a hybrid traffic model accounting for safe velocity. 2017 , 31, 1750104	27
1089	Prevision of vehicle headway effect on urban traffic with a new car-following model. 2017 , 31, 1750103	8
1088	Evaluating the safety impact of adaptive cruise control in traffic oscillations on freeways. 2017 , 104, 137-145	87
1087	The feedback control research on straight and curved road with car-following model. 2017 , 381, 2137-2143	34
1086	Improved coupled map car-following model considering partial car-to-car communication and its jam analysis. 2017 , 95, 1096-1102	3
1085	A new continuum model based on full velocity difference model considering traffic jerk effect. 2017 , 89, 639-649	29

1084	A new methodology for vehicle trajectory reconstruction based on wavelet analysis. 2017 , 74, 150-167	25
1083	Experimental and Empirical Investigations of Traffic Flow Instability. 2017 , 23, 157-173	22
1082	A new lattice model for single-lane traffic flow with the consideration of driver's memory during a period of time. 2017 , 28, 1750086	7
1081	The influence of heavy vehicles on traffic dynamics around on-ramp system: Cellular automata approach. 2017 , 28, 1750083	6
1080	An extended macro traffic flow model accounting for multiple optimal velocity functions with different probabilities. 2017 , 381, 2608-2620	79
1079	KdV-Burgers equation in a new continuum model based on full velocity difference model considering anticipation effect. 2017 , 481, 52-59	70
1078	KdV cnoidal waves in a traffic flow model with periodic boundaries. 2017 , 348, 44-53	4
1077	An extended microscopic traffic flow model based on the 'spring-mass' system theory. 2017 , 31, 1750090	10
1076	An improved car-following model from the perspective of driver's forecast behavior. 2017 , 28, 1750046	7
1075	A lattice hydrodynamic model based on delayed feedback control considering the effect of flow rate difference. 2017 , 479, 478-484	19
1074	Assimilating Eulerian and Lagrangian data in traffic-flow models. 2017 , 346, 59-72	6
1073	Traffic evacuation simulation based on multi-level driving decision model. 2017 , 78, 129-149	19
1072	Analysis of driver's characteristics on a curved road in a lattice model. 2017 , 471, 59-67	35
1071	Linear and nonlinear stability analysis of an extended car-following model considering pedestrians on adjacent lane. 2017 , 88, 777-789	4
1070	An improved car-following model with multiple preceding cars' velocity fluctuation feedback. 2017 , 471, 436-444	40
1069	A new control method integrated into the coupled map car-following model for suppressing traffic jams. 2017 , 88, 663-671	2
1068	An extended car-following model accounting for the honk effect and numerical tests. 2017 , 87, 149-157	24
1067	Optimal Control of Connected Vehicle Systems With Communication Delay and Driver Reaction Time. 2017 , 18, 2056-2070	94

1066	An improved lattice hydrodynamic model considering the influence of optimal flux for forward looking sites. 2017 , 381, 3523-3528	14
1065	Non-lane-discipline-based car-following model incorporating the electronic throttle dynamics under connected environment. 2017 , 90, 2345-2358	12
1064	TDGL and mKdV equations for an extended car-following model. 2017 , 90, 2253-2262	3
1063	Dynamical capacity drop in a nonlinear stochastic traffic model. 2017 , 105, 328-339	4
1062	Stabilizing traffic flow via a single autonomous vehicle: Possibilities and limitations. 2017 ,	39
1061	A recurrent neural network based microscopic car following model to predict traffic oscillation. 2017 , 84, 245-264	133
1060	An extended car-following model based on visual angle and backward looking effect. 2017 , 55, 2092-2099	11
1059	Evolution law of a macroscopic traffic model accounting for density-dependent relaxation time. 2017 , 31, 1750291	21
1058	Evaluation of Driver Car-Following Behavior Models for Cooperative Adaptive Cruise Control Systems. 2017 , 2622, 84-95	9
1057	Speed profile estimation using license plate recognition data. 2017 , 82, 358-378	27
1056	Validation of the Rakha-Pasumarthy-Adjerid car-following model for vehicle fuel consumption and emission estimation applications. 2017 , 55, 246-261	10
1055	An improved continuum model for traffic flow considering driver's memory during a period of time and numerical tests. 2017 , 381, 2792-2800	31
1054	A stochastic approach to the flow-concentration curve in traffic flow theory. 2017 , 25, 1227-1237	1
1053	. 2017 ,	
1052	Analysis and Modeling of Vehicle Following Behavior in Mixed Traffic Conditions. 2017 , 25, 5094-5103	13
1051	Evaluating impacts of different longitudinal driver assistance systems on reducing multi-vehicle rear-end crashes during small-scale inclement weather. 2017 , 107, 63-76	28
1050	Scene-aware driver state understanding in car-following behaviors. 2017 ,	1
1049	Car accidents induced by a bottleneck. 2017 , 90, 1	6

1048	Nonlinear density wave and energy consumption investigation of traffic flow on a curved road. 2017 , 26, 110504	8
1047	Analysis of energy consumption and emission of the heterogeneous traffic flow consisting of traditional vehicles and electric vehicles. 2017 , 31, 1750324	4
1046	Latent heat of traffic moving from rest. 2017 , 19, 113034	1
1045	Effect of current vehicle's interruption on traffic stability in cooperative car-following theory. 2017 , 31, 1750317	4
1044	Coarse analysis of collective behaviors: Bifurcation analysis of the optimal velocity model for traffic jam formation. 2017 , 381, 3983-3988	5
1043	Interactive traffic simulation model with learned local parameters. 2017 , 76, 9503-9516	1
1042	A traffic flow model considering influence of car-following and its echo characteristics. 2017 , 89, 1099-1109	21
1041	Stability analysis of a new lattice hydrodynamic model by considering lattice's self-anticipative density effect. 2017 , 486, 806-813	25
1040	On the Design of Nonlinear Distributed Control Protocols for Platooning Systems. 2017 , 1, 140-145	13
1039	An aggressive car-following model in the view of driving style. 2017 , 44, 775-782	1
1038	A new lattice model accounting for multiple optimal current differences's anticipation effect in two-lane system. 2017 , 486, 814-826	11
1037	New control strategy for the lattice hydrodynamic model of traffic flow. 2017 , 468, 445-453	17
1036	Numerical study of traffic flow considering the probability density distribution of the traffic density. 2017 , 28, 1750026	2
1035	An extended macro traffic flow model accounting for the driver's bounded rationality and numerical tests. 2017 , 468, 322-333	123
1034	Parsimonious shooting heuristic for trajectory design of connected automated traffic part I: Theoretical analysis with generalized time geography. 2017 , 95, 394-420	107
1033	Studies of vehicle lane-changing dynamics and its effect on traffic efficiency, safety and environmental impact. 2017 , 467, 41-58	36
1032	. 2017 , 18, 1313-1324	19
1031	Effects of signal light on the fuel consumption and emissions under car-following model. 2017 , 469, 200-205	54

1030	Enhanced stability of car-following model upon incorporation of short-term driving memory. 2017 , 47, 139-150	36
1029	Analysis of the traffic running cost in a two-route system with feedback strategy. 2017 , 466, 1-9	21
1028	Mathematical Analysis for Non-reciprocal-interaction-based Model of Collective Behavior. 2017 , 86, 124004	5
1027	Improvement of traffic percolation based on bottlenecks. 2017 ,	
1026	Signal control effects on vehicular traffic emissions through a sequence of traffic lights. 2017 ,	
1025	Influence of the number of predecessors in interaction within acceleration-based flow models. 2017 , 50, 345102	1
1024	Analysis string stability of a new car-following model considering response time. 2017 ,	1
1023	Car-following model with explicit reaction-time delay: linear stability analysis of a uniform solution on a ring. 2017 , 9, 679-687	6
1022	Framework for control and deep reinforcement learning in traffic. 2017 ,	13
1021	Electronic throttle dynamics based car-following model and its stability analysis. 2017 ,	
1020	A car-following model for connected vehicles under the bidirectional-leader following topology. 2017 ,	2
1019	Research on seeds discovery model to detect traffic congestions. 2017 ,	
1018	Advanced tutorial on microscopic discrete-event traffic simulation. 2017 ,	3
1017	Modelling the driving behaviour at a signalised intersection with the information of remaining green time. 2017 , 11, 596-603	64
1016	Characteristic of transportation network with LOGIT model. 2017 ,	
1015	Development of Predictive Powertrain State Switching Control for Eco-Saving ACC. 2017 ,	3
1014	Longitudinal Planning and Control Method for Autonomous Vehicles Based on A New Potential Field Model. 2017 ,	5
1013	An Improved Car-Following Model Accounting for Impact of Strong Wind. 2017 , 2017, 1-12	2

1012	A New Car-Following Model considering Driving Characteristics and Preceding Vehicle's Acceleration. 2017 , 2017, 1-14	5
1011	Stability analysis and numerical simulation for automated vehicles flow. 2017 ,	
1010	An extended FVD model considering road radians and gradients. 2017 ,	1
1009	Inferring Traffic Cascading Patterns. 2017 ,	14
1008	Bibliography. 2017 , 193-200	
1007	Feedback control scheme for traffic jam and energy consumption based on two-lane traffic flow model. 2018 , 60, 76-84	11
1006	Stability analysis methods and their applicability to car-following models in conventional and connected environments. 2018 , 109, 212-237	73
1005	Impacts of wireless charging lanes on travel time and energy consumption in a two-lane road system. 2018 , 500, 1-10	11
1004	Modeling and analyses for an extended car-following model accounting for drivers's situation awareness from cyber physical perspective. 2018 , 501, 52-68	9
1003	Dissipation of stop-and-go waves via control of autonomous vehicles: Field experiments. 2018 , 89, 205-221	250
1002	Impacts analysis of car following models considering variable vehicular gap policies. 2018 , 501, 338-355	57
1001	Impacts of moving bottlenecks on traffic flow. 2018 , 500, 131-138	28
1000	Travelling wave solutions of the perturbed mKdV equation that represent traffic congestion. 2018 , 79, 57-72	3
999	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. 2018 , 92, 1829-1844	7
998	Risk perception and the warning strategy based on microscopic driving state. 2018 , 118, 154-165	10
997	Analysis of dynamically stable patterns in a maze-like corridor using the Wasserstein metric. 2018 , 8, 6367	2
996	An extended macro model accounting for acceleration changes with memory and numerical tests. 2018 , 506, 270-283	10
995	Impact of safety assistance driving systems on oscillation magnitude, fuel consumption and emission in a car platoon. 2018 , 505, 995-1007	6

994	Analyses of a heterogeneous lattice hydrodynamic model with low and high-sensitivity vehicles. 2018 , 382, 1449-1455	14
993	A car-following model accounting for probability distribution. 2018 , 505, 105-113	16
992	Impacts of carpooling on trip costs under car-following model. 2018 , 505, 136-143	16
991	A speed guidance strategy for multiple signalized intersections based on car-following model. 2018 , 496, 399-409	70
990	Designing for discovery learning of complexity principles of congestion by driving together in the TrafficJams simulation. 2018 , 46, 105-132	4
989	An extended car-following model considering random safety distance with different probabilities. 2018 , 32, 1850056	8
988	Modeling and Analysis of Traffic Flow Considering Automatic Gap Control. 2018 , 101, 3-15	1
987	A new lattice hydrodynamic model with the consideration of flux change rate effect. 2018 , 92, 351-358	12
986	An extended two-lane car-following model accounting for inter-vehicle communication. 2018 , 495, 260-268	110
985	Towards mesoscale analysis of inter-vehicle communications. 2018 , 355, 1470-1492	0
984	An extended car-following model to describe connected traffic dynamics under cyberattacks. 2018 , 496, 351-370	20
983	Non-lane-discipline-based car-following model under honk environment. 2018 , 495, 278-293	4
982	Mean-field velocity difference model considering the average effect of multi-vehicle interaction. 2018 , 59, 553-564	17
981	Evolution of Self-Propelled Objects: From the Viewpoint of Nonlinear Science. 2018 , 24, 6308-6324	37
980	Analysis of mixed traffic flow with human-driving and autonomous cars based on car-following model. 2018 , 496, 274-285	143
979	A new car-following model for autonomous vehicles flow with mean expected velocity field. 2018 , 492, 2154-2165	93
978	An extended heterogeneous car-following model accounting for anticipation driving behavior and mixed maximum speeds. 2018 , 382, 489-498	16
977	The influence of continuous historical velocity difference information on micro-cooperative driving stability. 2018 , 494, 294-301	8

976	Modeling and simulation of driver's anticipation effect in a two lane system on curved road with slope. 2018 , 499, 110-120	13
975	From Traffic and Pedestrian Follow-the-Leader Models with Reaction Time to First Order Convection-Diffusion Flow Models. 2018 , 78, 63-79	9
974	Two-Time-Scale Hybrid Traffic Models for Pedestrian Crowds. 2018 , 19, 3449-3460	10
973	An extended car-following model accounting for cooperation driving system with velocity uncertainty. 2018 , 505, 1008-1017	14
972	Study on varying time delay on traffic stability in a novel lattice hydrodynamic model. 2018 , 505, 1103-1112	10
971	Control designs and stability analyses for Helly's car-following model. 2018 , 29, 1850025	1
970	Modeling the Imperfect Driver: Incorporating Human Factors in a Microscopic Traffic Model. 2018 , 19, 2856-2870	19
969	Full velocity difference car-following model considering desired inter-vehicle distance. 2018 , 29, 1850018	
968	An extended car-following model considering the acceleration derivative in some typical traffic environments. 2018 , 32, 1850020	3
967	Data-driven car-following model based on rough set theory. 2018 , 12, 49-57	24
966	Bifurcation analysis of a heterogeneous traffic flow model. 2018 , 32, 1850118	14
965	An extended car-following model incorporating the effects of lateral gap and gradient. 2018 , 503, 177-189	13
964	KdV-Burgers equation in the modified continuum model considering the Backward looking effect. 2018 , 91, 2007-2017	8
963	Linear stability and nonlinear analyses of traffic waves for the general nonlinear car-following model with multi-time delays. 2018 , 501, 293-307	22
962	Nonlinear analysis of an improved continuum model considering headway change with memory. 2018 , 32, 1850037	9
961	An improved lattice hydrodynamic model considering the Backward looking effect and the traffic interruption probability. 2018 , 91, 777-784	38
960	An extended car-following model considering the appearing probability of truck and driver's characteristics. 2018 , 382, 1341-1352	4
959	Analysis of feedback control scheme on discrete car-following system. 2018 , 503, 322-330	17

958	Study of traffic flow characteristics using different vehicle-following models under mixed traffic conditions. 2018 , 10, 92-103	32
957	. 2018 , 19, 38-47	50
956	Sliding Mode Control for a Class of Nonlinear Multi-agent System With Time Delay and Uncertainties. 2018 , 65, 865-875	49
955	Investigating traffic congestion: Targeting technological and social interdependencies through general morphological analysis. 2018 , 126, 161-167	1
954	Phase transition of a new lattice hydrodynamic model with consideration of on-ramp and off-ramp. 2018 , 54, 347-355	14
953	Car following: Comparing distance-oriented vs. inertia-oriented driving techniques. 2018 , 67, 13-22	5
952	Experimental and empirical investigations of traffic flow instability. 2018 , 94, 83-98	41
951	Defensive Driving Strategy and Control for Autonomous Ground Vehicle in Mixed Traffic. 2018 , 3-44	0
950	An extended continuum model considering optimal velocity change with memory and numerical tests. 2018 , 490, 774-785	72
949	Nonlinear density wave investigation for an extended car-following model considering driver's memory and jerk. 2018 , 32, 1750366	19
948	Relative velocity difference model for the car-following theory. 2018 , 91, 1415-1428	72
947	An improved car-following model accounting for the preceding car's taillight. 2018 , 492, 1831-1837	42
946	Stabilization analysis and modified KdV equation of a car-following model with consideration of self-stabilizing control in historical traffic data. 2018 , 91, 1113-1125	14
945	The self-stabilization effect of lattice's historical flow in a new lattice hydrodynamic model. 2018 , 91, 809-817	14
944	An Extended Car-Following Model With Consideration of the Driver's Memory and Control Strategy. 2018 , 20, 689-696	4
943	Bifurcation structure of a car-following model with nonlinear dependence on the relative velocity. 2018 , 14, 503-519	5
942	Stability analysis of feedforward anticipation optimal flux difference in traffic lattice hydrodynamic theory. 2018 , 56, 287-295	20
941	Driving Maneuvers Prediction Based on Cognition-driven and Data-driven Method. 2018 ,	4

940	Cloud Server-Based Distributed Platoon Control for Intelligent Micro Vehicles. 2018,	
939	Urban Wasteful Transport and Its Estimation Methods. 2018, 10, 4562	1
938	Wireless Communications and Control for Swarms of Cellular-Connected UAVs. 2018,	13
937	Network Identification: A Passivity and Network Optimization Approach. 2018,	8
936	Connections between classical car following models and artificial neural networks. 2018,	3
935	Traffic flow velocity disturbance characteristics and control strategy at the bottleneck of expressway. 2018, 27, 124502	2
934	A New Car-Following Model Accounting for Multi-Preceding Cars Optimal Velocity Changes and Backward Looking Effects. 2018,	
933	Modeling Car-Following Behavior Impacted by Road Gradients. 2018,	
932	Traffic Flow Models Simulation with Measured Traffic Data. 2018,	
931	Optimal headway merging for balanced public transport service in urban networks. 2018, 51, 416-421	1
930	Derivation of a first order traffic flow model of Lighthill-Whitham-Richards type. 2018, 51, 49-54	6
929	Non-Lane-Discipline-Based Car-Following Model Considering the Effects of Full Lateral Gaps. 2018,	2
928	. 2018,	6
927	Real Time Traffic Control Using Big Data Analytics. 2018,	
926	An extended continuum model with consideration of the self-anticipative effect. 2018, 32, 1850382	14
925	Feedback Control of the Car Following Model Considering the Effect of Traffic Jerk. 2018,	
924	Human-like autonomous car-following model with deep reinforcement learning. 2018, 97, 348-368	151
923	Predictive Simulation of Public Transportation Using Deep Learning. 2018, 96-106	0

922	A new adaptive cruise control strategy and its stabilization effect on traffic flow. 2018 , 10,	13
921	Impact of lattice self-anticipative density on traffic stability of lattice model on two lanes. 2018 , 94, 2969-2977	8
920	A New Car-Following Model with Consideration of Dynamic Safety Distance. 2018 , 2018, 1-5	
919	A car-following model considering two different time delays and stability analysis. 2018 ,	
918	Social Dilemma Analysis for Modeling Traffic Flow. 2018 , 105-154	
917	A Fuzzy Logic-Based Anticipation Car-Following Model. 2018 , 200-222	5
916	Stabilizing Traffic with Autonomous Vehicles. 2018 ,	39
915	Density Waves in an Anticipation Traffic Flow Model. 2018 ,	
914	Lattice hydrodynamic modeling of traffic flow with consideration of historical current integration effect. 2018 , 503, 1204-1211	13
913	A novel car-following model considering conditional heteroskedasticity of acceleration fluctuation and driving force. 2018 , 34, 2301-2311	1
912	Experimental study and modeling of car-following behavior under high speed situation. 2018 , 97, 194-215	35
911	An extended delayed feedback control method for the two-lane traffic flow. 2018 , 94, 2479-2490	6
910	Burgers and mKdV equation for car-following model considering drivers characteristics on a gradient highway. 2018 , 32, 1850314	3
909	Modeling Microscopic Car-Following Strategy of Mixed Traffic to Identify Optimal Platoon Configurations for Multiobjective Decision-Making. 2018 , 2018, 1-15	12
908	An Extended Car-Following Model at Signalised Intersections. 2018 , 2018, 1-26	6
907	Analysis of drivers' characteristics on continuum model with traffic jerk effect. 2018 , 382, 3381-3392	21
906	Uncertainty Analysis of Rear-End Collision Risk Based on Car-Following Driving Simulation Experiments. 2018 , 2018, 1-13	4
905	Evaluation of the Gradient Boosting of Regression Trees Method on Estimating Car-Following Behavior. 2018 , 2672, 136-146	8

904	The Car Following Model with Relative Speed in Front on the Three-Lane Road. 2018 , 2018, 1-9	1
903	Using synchronous and asynchronous parallel Differential Evolution for calibrating a second-order traffic flow model. 2018 , 125, 1-18	6
902	Effects of vehicle gap changes on fuel economy and emission performance of the traffic flow in the ACC strategy. 2018 , 13, e0200110	10
901	An extended continuum traffic model with the consideration of the optimal velocity difference. 2018 , 508, 402-413	9
900	Nonlinear analysis for an improved car-following model account for the optimal velocity changes with memory. 2018 , 507, 278-288	9
899	Optimally combined headway and timetable reliable public transport system. 2018 , 92, 1-26	24
898	An extended car-following model considering the self-stabilizing driving behavior of headway. 2018 , 507, 347-357	12
897	Effects of speed deviation and density difference in traffic lattice hydrodynamic model with interruption. 2018 , 506, 900-908	11
896	A novel lattice hydrodynamic model considering the optimal estimation of flux difference effect on two-lane highway. 2018 , 506, 929-937	15
895	An extended heterogeneous car-following model with the consideration of the drivers' different psychological headways. 2018 , 506, 1113-1125	16
894	Nonlinear analysis for a modified continuum model considering driver's memory and backward looking effect. 2018 , 508, 18-27	18
893	Energy consumption investigation for a new car-following model considering driver's memory and average speed of the vehicles. 2018 , 506, 1038-1049	7
892	. 2018 , 67, 6824-6837	21
891	Synchronous Control of Vehicle Following Behavior and Distance Under the Safe and Efficient Steady-Following State: Two Case Studies of High-Speed Train Following Control. 2018 , 19, 1445-1456	10
890	Parametric study of microscopic two-dimensional traffic flow models: A literature review. 2018 , 45, 909-921	11
889	An improved car-following model considering the influence of space gap to the response. 2018 , 509, 536-545	13
888	Feedback control method in lattice hydrodynamic model under honk environment. 2018 , 509, 651-656	27
887	Stability analysis of car-following model on straight and curved roads considering the preceding vehicle's velocity feedback control. 2018 , 32, 1850238	1

886	A New Control Strategy Integrated into the Desired Safety Margin Car-Following Model Considering the Disturbance Level. 2018 , 2672, 162-177	1
885	Modeling car-following behavior on urban expressways in Shanghai: A naturalistic driving study. 2018 , 93, 425-445	91
884	Weakly nonlinear analysis for car-following model with consideration of cooperation and time delays. 2018 , 32, 1850241	6
883	A Dynamic Time Warping Algorithm Based Analysis of Pedestrian Shockwaves at Bottleneck. 2018 , 2018, 1-8	7
882	A car-following model considering asymmetric driving behavior based on long short-term memory neural networks. 2018 , 95, 346-362	69
881	Application of Trajectory Data for Investigating Vehicle Behavior in Mixed Traffic Environment. 2018 , 2672, 122-133	17
880	A macro traffic flow model with probability distribution function. 2018 , 382, 2819-2824	5
879	The difference of drivers' anticipation behaviors in a new macro model of traffic flow and numerical simulation. 2018 , 382, 2595-2597	8
878	A platoon based cooperative eco-driving model for mixed automated and human-driven vehicles at a signalised intersection. 2018 , 95, 802-821	110
877	Analyses of lattice hydrodynamic model using delayed feedback control with passing. 2018 , 510, 446-455	7
876	Wave dynamics in an extended macroscopic traffic flow model with periodic boundaries. 2018 , 32, 1850168	15
875	The nonlinear analysis for a new continuum model considering anticipation and traffic jerk effect. 2018 , 332, 493-505	44
874	Effect of the driver's desire for smooth driving on the car-following model. 2018 , 512, 96-108	20
873	Feedback-based control for coupled map car-following model with time delays on basis of linear discrete-time system. 2018 , 512, 174-185	4
872	Fragility and Controllability Tradeoff in Complex Networks. 2018 ,	7
871	A New Control Strategy Integrated into the Desired Safety Margin Car-Following Model Considering the Disturbance Level. 2018 , 036119811878359	
870	Stability Analysis of Connected and Automated Vehicles to Reduce Fuel Consumption and Emissions. 2018 , 144, 04018068	16
869	Nonlinear Disturbance Observer Based Sliding Mode Controller for Vehicular Traffic Flow. 2018 ,	2

868	KdVBurgers equation in the modified continuum model considering the effect of friction and radius on a curved road. 2018 , 503, 1218-1227	9
867	Microscopic and Mesoscopic Traffic Models. 2018 , 113-143	2
866	Modeling vehicular traffic networks. Part I. 2018 , 509, 97-110	2
865	An extended car-following model under V2V communication environment and its delayed-feedback control. 2018 , 508, 349-358	42
864	Extended Desired Safety Margin Car-Following Model That Considers Variation of Historical Perceived Risk and Acceptable Risk. 2018 , 2672, 86-97	8
863	Fractional order car-following model and its simulation. 2018 , 32, 1850213	2
862	Regularization and Feedback Passivation in Cooperative Control of Passivity-Short Systems: A Network Optimization Perspective. 2018 , 2, 731-736	7
861	A Similitude Theory for Modeling Traffic Flow Dynamics. 2019 , 20, 900-911	1
860	A Novel Car-Following Control Model Combining Machine Learning and Kinematics Models for Automated Vehicles. 2019 , 20, 1991-2000	35
859	A vehicle type-based approach to model car following behaviors in simulation programs (case study: Car-motorcycle following behavior). 2019 , 43, 14-20	14
858	Influence of Driving Behaviors on the Stability in Car Following. 2019 , 20, 1081-1098	11
857	Understanding single-file movement with ant experiments and a multi-grid CA model. 2019 , 513, 1-13	5
856	Microscopic Models. 2019 , 35-51	
855	An exploration of the interaction between urban human activities and daily traffic conditions: A case study of Toronto, Canada. 2019 , 84, 8-22	17
854	Use of Particle Filtering to Establish a Time-Varying Car-Following Model. 2019 , 17, 49-60	0
853	Improving two-dimensional intelligent driver models to overcome overly high deceleration in car-following. 2019 , 534, 122313	6
852	Integrated deep learning and stochastic car-following model for traffic dynamics on multi-lane freeways. 2019 , 106, 360-377	20
851	An improved heuristic-based model to reproduce pedestrian dynamic on the single-file staircase. 2019 , 535, 122270	3

850	An Ecological Adaptive Cruise Control for Mixed Traffic and Its Stabilization Effect. 2019 , 7, 81246-81256	9
849	Network Feedback Passivation of Passivity-Short Multi-Agent Systems. 2019 , 3, 607-612	6
848	A Second Order Traffic Flow Model with Lane Changing. 2019 , 81, 1429-1445	3
847	Comparative analysis of marine traffic flow in classical models. 2019 , 187, 106195	4
846	Human Behavior Modeling for Evacuation From Classroom Using Cellular Automata. 2019 , 7, 98694-98701	5
845	Research on Multi-mode Autonomous Car-following Model Based on Driving Simulator. 2019 ,	
844	The impact of the density difference memory integral on traffic stability in two-lane lattice hydrodynamic model. 2019 , 532, 121750	3
843	An extended two-lane lattice hydrodynamic model for traffic flow on curved road with passing. 2019 , 533, 121915	16
842	Interpolated variational iteration method for solving the jamming transition problem. 2019 , 166, 481-493	1
841	Effect of speed deviation and anticipation effect of flux difference in the lattice hydrodynamic model. 2019 , 531, 121751	5
840	Study on the interval integration effect of vehicle's self-delayed velocity on traffic stability in micro traffic modeling. 2019 , 533, 121941	4
839	Anticipation model based on a modified fuzzy logic approach. 2019 , 13, 330-339	0
838	Statistical physics of synchronized traffic flow: Spatiotemporal competition between $S-\bar{g}$ and $S-g$ instabilities. <i>Physical Review E</i> , 2019 , 100, 012303	2.4 13
837	Langevin method for a continuous stochastic car-following model and its stability conditions. 2019 , 105, 599-610	28
836	A car-following model for electric vehicle traffic flow based on optimal energy consumption. 2019 , 533, 122022	6
835	Estimation and Analysis of Vehicle Exhaust Emissions at Signalized Intersections Using a Car-Following Model. 2019 , 11, 3992	3
834	Vehicle demand evolution analysis from the complex network perspective. 2019 , 532, 121889	3
833	Multiple-vehicle collision influenced by misjudgment of space headway in traffic flow under fog weather condition. 2019 , 304, 032077	3

832	Feedback strategy with delay in a two-route traffic network. 2019 , 534, 122195	3
831	How vision governs the collective behaviour of dense cycling pelotons. 2019 , 16, 20190197	2
830	Global Optimality under Internet of Vehicles: Strategy to Improve Traffic Safety and Reduce Energy Dissipation. 2019 , 11, 4541	2
829	Mesoscopic modelling and analysis of traffic flow based on stationary observations. 2019 , 151, 800-807	
828	A Study of the Sensitivity of the Fuel Consumption to Driving Strategy by Micro Simulation. 2019 , 157, 375-381	1
827	The stabilization effect of self-delayed flux integral for two-lane lattice hydrodynamic model. 2019 , 535, 122421	2
826	Modeling and assessing adaptive cruise control stability: experimental insights. 2019 ,	1
825	Effects of multi-phase optimal velocity function on a lattice model accounting for driver's behavior. 2019 , 33, 1950248	5
824	Effect of Imitation Phenomenon on Two-lane Traffic Safety in Fog Weather. 2019 , 16,	2
823	An extended car-following model by considering the optimal velocity difference and electronic throttle angle. 2019 , 535, 122216	2
822	Real-virtual consistent traffic flow interaction. 2019 , 106, 101048	1
821	Self-stabilizing analysis of an extended car-following model with consideration of expected effect. 2019 , 535, 122423	2
820	On the role of speed adaptation and spacing indifference in traffic instability: Evidence from car-following experiments and its stochastic model. 2019 , 129, 334-350	24
819	Car-following model based delay feedback control method with the gyroidal road. 2019 , 30, 1950073	11
818	Self-organization of multiarmed spiral waves in excitable media. <i>Physical Review E</i> , 2019 , 100, 042203	2.4 2
817	Rear-End Crash Risk of CACC-Manual Driven Mixed Flow Considering the Degeneration of CACC Systems. 2019 , 7, 140421-140429	8
816	Active Control and Validation of the Electric Vehicle Powertrain System Using the Vehicle Cluster Environment. 2019 , 12, 3642	2
815	Simulation and modeling traffic flow based on Division K Nearest Neighbor. 2019 , 33, 1950407	0

- 814 Joint Communication and Control for Wireless Autonomous Vehicular Platoon Systems. **2019**, 67, 7907-7922 55
- 813 Effects of DSRC-Based Safety Messages on Heterogeneous Traffic Flow Stability. **2019**,
- 812 . **2019**, 7, 96223-96231
- 811 A Car-Following Model Considering Preceding Vehicle's Lane-Changing Process. **2019**, 7, 89913-89923 4
- 810 Junction Conditions for Hamilton-Jacobi Equations for Solving Real-Time Traffic Flow Problems. **2019**, 7, 114334-114348
- 809 Nonlinear analysis of a new two-lane lattice hydrodynamic model accounting for Backward looking effect and relative flow information. **2019**, 33, 1950223 4
- 808 On state feedback control and Lyapunov analysis of car-following model. **2019**, 534, 122320 2
- 807 Calibration of Vehicle-Following Model Parameters Using Mixed Traffic Trajectory Data. **2019**, 5, 1 5
- 806 Continuum car-following model of capacity drop at sag and tunnel bottlenecks. **2019**, 38, 668-687 1
- 805 Stability analysis and the fundamental diagram for mixed connected automated and human-driven vehicles. **2019**, 533, 121931 49
- 804 Controllability Analysis and Optimal Controller Synthesis of Mixed Traffic Systems. **2019**, 5
- 803 A car-following model considering the effect of electronic throttle opening angle over the curved road. **2019**, 534, 122377 2
- 802 Study on the continuous delayed optimal flow on traffic stability in a new macro traffic model. **2019**, 534, 122029 7
- 801 Bi-level Decision-making Modeling for an Autonomous Driver Agent: Application in the Car-following Driving Behavior. **2019**, 33, 1157-1178 5
- 800 Energy-aware predictive control for electrified bus networks. **2019**, 252, 113477 3
- 799 Probabilistic Modeling of Vehicle Acceleration and State Propagation With Long Short-Term Memory Neural Networks. **2019**, 2
- 798 Traffic dynamics under speed disturbance in mixed traffic with automated and non-automated vehicles. **2019**, 38, 709-729 3
- 797 An extended car-following model considering the low visibility in fog on a highway with slopes. **2019**, 30, 1950090 3

796	Nonlinear analysis for a modified continuum model considering electronic throttle (ET) and backward looking effect. 2019 , 535, 122362	11
795	Tracking vehicle trajectories and fuel rates in phantom traffic jams: Methodology and data. 2019 , 99, 82-109	16
794	An extended car-following model considering driver's memory and average speed of preceding vehicles with control strategy. 2019 , 521, 752-761	51
793	Analysis of trip cost allowing late arrival in a traffic corridor with one entry and one exit under car-following model. 2019 , 521, 387-398	19
792	An improved two-lane cellular automaton traffic model based on BL-STCA model considering the dynamic lane-changing probability. 2019 , 23, 9397-9412	5
791	Vehicular traffic modeling with greedy lane-changing and inordinate waiting. 2019 , 521, 715-723	4
790	An extended car-following model considering driver's desire for smooth driving on the curved road. 2019 , 527, 121426	10
789	Multimodel Approach to Personalized Autonomous Adaptive Cruise Control. 2019 , 4, 321-330	12
788	Research on the stabilization effect of continuous self-delayed traffic flux in macro traffic modeling. 2019 , 526, 121012	6
787	Analysis of a novel lattice hydrodynamic model considering predictive effect and flow integral. 2019 , 527, 121425	9
786	Origins of Reverse Lane Usage Using Nagel-Schreckenberg Model. 2019 , 88, 024801	
785	An extended car-following model considering multi-anticipative average velocity effect under V2V environment. 2019 , 527, 121268	25
784	An optimal velocity estimation (OVE) model based on non-empirical formula. 2019 , 527, 121302	3
783	Effect of density integration on the stability of a new lattice hydrodynamic model. 2019 , 33, 1950071	1
782	Study on discrete boundary-feedback-control strategy for traffic flow based on Macroscopic Fundamental Diagram. 2019 , 523, 1237-1247	9
781	Empirical analysis of urban road traffic network: A case study in Hangzhou city, China. 2019 , 527, 121287	13
780	Study on braking process of vehicles at the signalized intersection based on car-following theory. 2019 , 523, 1306-1314	9
779	An improved inertia model to reproduce car-following instability. 2019 , 526, 121087	4

778	Modeling Approaches to Traffic Breakdown. 2019 , 195-283	3
777	Cellular Automaton Models in the Framework of Three-Phase Traffic Theory. 2019 , 313-342	1
776	Physics of Mind and Car-Following Problem. 2019 , 559-592	3
775	How to Mitigate Traffic Congestion Based on Improved Ant Colony Algorithm: A Case Study of a Congested Old Area of a Metropolis. 2019 , 11, 1140	8
774	Analysis of a novel lattice hydrodynamic model considering density integral and Backward looking effect. 2019 , 525, 714-723	10
773	On Linearizing stability of nonlinear bidirectional asymmetric heterogeneous platoon systems. 2019 , 105, 198-205	17
772	Delayed-feedback control in a car-following model with the combination of V2V communication. 2019 , 526, 120912	17
771	Feedback control caused by honk effect incorporating the driver's characteristics in lattice hydrodynamic model. 2019 , 526, 121064	9
770	Analytical solutions of pattern formation for a class of discrete Aw-Basclezhang traffic models. 2019 , 73, 391-402	2
769	Influences of acceleration with memory on stability of traffic flow and vehicle's fuel consumption. 2019 , 525, 143-154	6
768	MFC Free-Flow Model: Introducing Vehicle Dynamics in Microsimulation. 2019 , 2673, 762-777	19
767	Research on preceding vehicle's taillight effect and energy consumption in an extended macro traffic model. 2019 , 525, 304-314	6
766	The impact of the individual difference on traffic flow under honk environment in lattice hydrodynamic model. 2019 , 526, 120772	6
765	Analysis of the historical time integral form of relative flux and feedback control in an extended lattice hydrodynamic model. 2019 , 523, 326-334	2
764	Impact of risk illusions on traffic flow in fog weather. 2019 , 525, 216-222	10
763	An improved anisotropic continuum model considering the driver's desire for steady driving. 2019 , 525, 1449-1462	1
762	An extended car-following model considering driver's sensory memory and the backward looking effect. 2019 , 525, 278-289	19
761	The effect of Headway Variation Tendency on traffic flow: Modeling and stabilization. 2019 , 525, 566-575	12

760	A new lattice hydrodynamic model accounting for the traffic interruption probability on a gradient highway. 2019 , 383, 1879-1887	15
759	A Generalised Method for Adaptive Longitudinal Control Using Reinforcement Learning. 2019 , 464-479	1
758	Macroscopic fundamental diagram in simple street networks. 2019 , 2, 85-95	1
757	Safety benefits of arterials crash risk under connected and automated vehicles. 2019 , 100, 354-371	59
756	Two-lane lattice hydrodynamic model considering the empirical lane-changing rate. 2019 , 73, 229-243	15
755	Stationary solution of semi-discrete traffic flow model on a ring road with slopes. 2019 , 33, 1950396	
754	Impacts of Downstream Observability on the Traffic Performance within a Tunnel. 2019 ,	
753	The Car-Following Model Based on Fuzzy Inference Controller. 2019 , 646, 012007	
752	Comparison of Microscopic Car following Models. 2019 ,	1
751	Evaluation of Vehicles Platooning on Expressways Based on V2X. 2019 ,	0
750	A new car-following model considering recurrent neural network. 2019 , 33, 1950304	1
749	Modeling Longitudinal Following Control Based on Preceding Vehicle Motion Predictor*. 2019 ,	
748	Model-based deep reinforcement learning for CACC in mixed-autonomy vehicle platoon. 2019 ,	9
747	Some features of car-following behaviour in the vicinity of signalised intersection and how to model them. 2019 , 13, 1686-1693	13
746	Traffic Oscillations Mitigation in Vehicle Platoon Using a Car-Following Control Model for Connected and Autonomous Vehicle. 2019 , 2019, 1-12	2
745	On a weaker notion of ring stability for mixed traffic with human-driven and autonomous vehicles. 2019 ,	2
744	Autonomous vehicles: From vehicular control to traffic contro. 2019 ,	3
743	. 2019 ,	0

742	Electric Vehicle Dynamics-Based Car-Following Model and Stability Analysis. 2019,	1
741	Model Study of Traffic Congestion Impacted by Incidents. 2019,	
740	. 2019,	
739	An Extended Mean-Field Lattice Hydrodynamic Model With Consideration of the Average Effect of Multi-Lattice Interaction. 2019, 7, 168798-168804	1
738	An improved car-following model considering forecast speed difference with delay time. 2019, 33, 1950414	4
737	On trajectory tracking of control-affine nonlinear systems with unreliable communication. 2019, 52, 223-228	
736	Predictive car-following scheme for improving traffic flows on urban road networks. 2019, 17, 325-334	4
735	. 2019,	4
734	Stability Analysis for Car-Following Model Considering Position Error. 2019,	
733	Simulation of Gipps car-following model and validation by China data. 2019,	1
732	Mean-field flow difference model with consideration of on-ramp and off-ramp. 2019, 513, 465-476	45
731	An extended lattice hydrodynamic model considering the delayed feedback control on a curved road. 2019, 513, 510-517	59
730	Bifurcation analysis of traffic flow through an improved car-following model considering the time-delayed velocity difference. 2019, 514, 133-140	18
729	An improved lattice hydrodynamic model accounting for the effect of Backward looking and flow integral. 2019, 513, 438-446	29
728	Analysis of Information Reliability on Dynamics of Connected Vehicles. 2019, 7, 4487-4495	6
727	A copula-based estimation of distribution algorithm for calibration of microscopic traffic models. 2019, 98, 449-470	11
726	Nonlinear analysis of an improved continuum model considering mean-field velocity difference. 2019, 383, 622-629	18
725	Impact of Connected and Automated Vehicles on Passenger Comfort of Traffic Flow with Vehicle-to-vehicle Communications. 2019, 23, 821-832	14

724	An extended macroscopic model for traffic flow on curved road and its numerical simulation. 2019 , 95, 3295-3307	12
723	SV-FVDM: A Synthetic Vision Based Full Velocity Difference Model for Interactive Traffic Simulation. 2019 , 21, 35-45	1
722	Aware of Scene Vehicles Probabilistic Modeling of Car-Following Behaviors in Real-World Traffic. 2019 , 20, 2136-2148	5
721	A route-based traffic flow model accounting for interruption factors. 2019 , 514, 767-785	35
720	An extended lattice hydrodynamic model considering the driver's sensory memory and delayed-feedback control. 2019 , 514, 522-532	21
719	TDGL and mKdV equations for an extended car-following model with the consideration of driver's memory. 2019 , 515, 440-449	14
718	Nonlinear analysis of a new lattice hydrodynamic model with the consideration of honk effect on flux for two-lane highway. 2019 , 515, 93-101	20
717	Effects of the prevision relative velocity on traffic dynamics in the ACC strategy. 2019 , 515, 192-198	39
716	L_2 and L_{∞} Stability Analysis of Heterogeneous Traffic With Application to Parameter Optimization for the Control of Automated Vehicles. 2019 , 27, 934-949	26
715	A multiclass microscopic model for heterogeneous platoon with vehicle-to-vehicle communication. 2019 , 7, 311-335	26
714	Can we trust the speed-spacing relationship estimated by car-following model from non-stationary trajectory data?. 2019 , 15, 263-284	5
713	State-space linear stability analysis of platoons of cooperative vehicles. 2019 , 7, 18-43	11
712	Feedback control pattern for a new lattice hydrodynamic model accounting for historic evolution information. 2020 , 93, 2370-2377	3
711	Dictionary-based Fidelity Measure for Virtual Traffic. 2020 , 26, 1490-1501	1
710	Continuum car-following model of capacity drop at sag and tunnel bottlenecks. 2020 , 113, 260-276	5
709	Prediction of pedestrian dynamics in complex architectures with artificial neural networks. 2020 , 24, 556-568	8
708	Traffic dynamics under speed disturbance in mixed traffic with automated and non-automated vehicles. 2020 , 113, 293-313	9
707	Robust Stabilization and H ∞ Control of Cooperative Driving System with Time Delay in Variable Speed-Limited Area from Cyber-Physical Perspective. 2020 , 22, 373-387	5

706	Control Schemes for Autonomous Car-following Systems with two Classical Compensators. 2020 , 22, 168-181	3
705	Discrete Car-Following Model and its Feedback Control Scheme. 2020 , 22, 182-191	6
704	Optimal location of lane-changing warning point in a two-lane road considering different traffic flows. 2020 , 540, 123000	14
703	Linking granular computing, big data and decision making: a case study in urban path planning. 2020 , 24, 7435-7450	7
702	A car-following dynamic model with headway memory and evolution trend. 2020 , 539, 122903	10
701	An improved car-following model with consideration of multiple preceding and following vehicles in a driver's view. 2020 , 538, 122967	10
700	Impacts of bounded rationality on trip cost in a two-route traffic network. 2020 , 540, 123051	3
699	Development of an Asymmetric Car-Following Model and Simulation Validation. 2020 , 21, 3513-3524	3
698	A Survey on Visual Traffic Simulation: Models, Evaluations, and Applications in Autonomous Driving. 2020 , 39, 287-308	25
697	Dissipation of traffic congestion using autonomous-based car-following model with modified optimal velocity. 2020 , 542, 123412	10
696	The AwBascle Traffic Model: Enskog-Type Kinetic Derivation and Generalisations. 2020 , 178, 178-210	7
695	Study on minimum emission control strategy on arterial road based on improved simulated annealing genetic algorithm. 2020 , 537, 122691	7
694	Modeling and application analysis of car-following model with predictive headway variation. 2020 , 540, 123171	8
693	Theoretical conditions for restricting secondary jams in jam-absorption driving scenarios. 2020 , 542, 123393	4
692	Early Detection of a Traffic Flow Breakdown in the Freeway Based on Dynamical Network Markers. 2020 , 18, 422-435	0
691	Impact of next-nearest leading vehicles on followers' driving behaviours and traffic stability in mixed traffic. 2020 , 7, 42-51	4
690	Jointly dampening traffic oscillations and improving energy consumption with electric, connected and automated vehicles: A reinforcement learning based approach. 2020 , 257, 114030	106
689	A new continuum traffic flow model with two delays. 2020 , 545, 123757	10

688	Research on multiple vehicles' continuous self-delayed velocities on traffic flow with vehicle-to-vehicle communication. 2020 , 541, 123704	6
687	A macroscopic traffic model for heterogeneous flow. 2020 , 63, 419-435	6
686	Combined effects of drivers' disturbance risk preference heterogeneity and the nearest following vehicle headway on traffic flow instability: Analytical studies. 2020 , 545, 123685	2
685	Critical Assessment of Microscopic Simulation Models for Simulating Turbulence around Motorway Ramps. 2020 , 146, 04019066	2
684	The resonance behavior in the fractional harmonic oscillator with time delay and fluctuating mass. 2020 , 545, 123731	5
683	String Stability Analysis of Mixed CACC Vehicular Flow With Vehicle-to-Vehicle Communication. 2020 , 8, 174132-174141	5
682	An improved car-following model considering electronic throttle dynamics and delayed velocity difference. 2020 , 558, 125015	1
681	Analysis of a novel two-lane lattice model with consideration of density integral and relative flow information. 2020 , 37, 2939-2955	4
680	CPS-Based Human-Vehicle Co-Pilot Switching Strategy Under Different Information Flow Topologies. 2020 , 8, 125943-125952	1
679	Monte Carlo Tree Search-Based Mixed Traffic Flow Control Algorithm for Arterial Intersections. 2020 , 2674, 167-178	4
678	An Asymmetric-Anticipation Car-following Model in the Era of Autonomous-Connected and Human-Driving Vehicles. 2020 , 2020, 1-23	5
677	A sequence to sequence learning based car-following model for multi-step predictions considering reaction delay. 2020 , 120, 102785	18
676	An Extended Car-Following Model Considering Generalized Preceding Vehicles in V2X Environment. 2020 , 12, 216	5
675	Impact of Stochasticity on Traffic Flow Dynamics in Macroscopic Continuum Models. 2020 , 2674, 690-704	1
674	A novel lattice hydrodynamic model accounting for driver's memory effect and the difference of optimal velocity on curved road. 2020 , 559, 125023	3
673	Study on state feedback control strategy for car-following system. 2020 , 558, 124938	2
672	Are Commercially Implemented Adaptive Cruise Control Systems String Stable?. 2020 , 1-12	34
671	Crossover transitions in a bus' mixed-traffic cellular automata model. 2020 , 557, 124861	4

670	Car-following model considering the lane-changing prevention effect and its stability analysis. 2020 , 93, 1	3
669	New feedback control strategy for optimal velocity traffic model. 2020 , 559, 125053	2
668	Cyber-Human-Physical Heterogeneous Traffic Systems for Enhanced Safety. 2020 ,	
667	Vehicular Traffic Through Signals in Hierarchical Small-World Directed Networks. 2020 , 89, 073001	1
666	Cyber-Human-Physical Heterogeneous Traffic Systems for Enhanced Safety. 2020 ,	
665	Driver profiling-based anti-theft system. 2020 ,	
664	On a class of new nonlocal traffic flow models with look-ahead rules. 2020 , 413, 132663	0
663	Nonlinear analysis of the individual difference corresponding to honk effect for car-following theory under V2X environment. 2020 , 31, 2050157	3
662	A feedback control method with consideration of the next-nearest-neighbor interactions in a lattice hydrodynamic model. 2020 , 559, 125055	6
661	Modeling for Micro Traffic Flow with the Consideration of Lateral Vehicle's Influence. 2020 , 2020, 1-13	1
660	Rear-end collision warning of connected automated vehicles based on a novel stochastic local multivehicle optimal velocity model. 2020 , 148, 105800	14
659	Formularization of entropy and anticipation of metastable states using mutual information in one-dimensional traffic flow. 2020 , 560, 125152	4
658	A two-lane lattice model considering taillight effect and man-machine hybrid driving. 2020 , 34, 2050365	
657	Reducing the Standstill Spacing and Duration of Safe Braking Control in Vehicle Platoons With Delays. 2020 , 8, 202445-202458	1
656	Correlations and responses for a system of n coupled linear oscillators with asymmetric interactions. <i>Physical Review E</i> , 2020 , 102, 012150	2.4 2
655	A new two-lane lattice hydrodynamic model on a curved road accounting for the empirical lane-changing rate. 2020 , ahead-of-print,	2
654	. 2020 ,	1
653	An Extended Car-Following Model considering the Driver's Desire for Smooth Driving and Self-Stabilizing Control with Velocity Uncertainty. 2020 , 2020, 1-17	1

652	Analytical studies on an optimized adaptive cruise control model of traffic flow based on self-stabilizing strategy. 2020 , 31, 2050054	1
651	An extended car-following model integrating average speed and electronic throttle dynamics of multiple preceding vehicles. 2020 , ahead-of-print,	
650	Nonlinear Optimal Velocity Car Following Dynamics (II): Rate of Convergence In the Presence of Fast Perturbation. 2020 ,	0
649	Nonlinear Optimal Velocity Car Following Dynamics (I): Approximation in Presence of Deterministic and Stochastic Perturbations. 2020 ,	0
648	Model-based assessment of the impact of driver-assist vehicles using kinetic theory. 2020 , 71, 1	9
647	Modeling Car-Following Behaviour of Turning Movements at Intersections with Consideration of Turning Radius. 2020 , 2020, 1-9	2
646	CAV Nested Car-Following Model Based on Characteristics of Mixed Traffic Flow. 2020 ,	
645	Car-Following Model of Connected Vehicles with an Early Warning System Based on LTE-V Vehicular Communication. 2020 ,	
644	Linear Stability Analysis of a General Car-Following Model in Vehicle Platoon. 2020 ,	
643	Impact of the Time-Variant Response Time of Driver on Traffic Flow Oscillations and Car-Following Safety. 2020 ,	0
642	Desired Safety Margin Model-Based Exploration of Driver Style Effect on Heterogeneous Traffic Flow. 2020 ,	
641	Bifurcation Control in an Optimal Velocity Model via Double Time-Delay Feedback Method. 2020 , 8, 216162-216175	
640	. 2020 ,	1
639	Molecular Dynamics Characteristics and Model of Vehicle-Following Behavior. 2020 , 2020, 1-11	
638	A Geometric Method for Passivation and Cooperative Control of Equilibrium-Independent Passivity-Short Systems. 2020 , 1-1	4
637	Learning-Based Adaptive Optimal Control for Connected Vehicles in Mixed Traffic: Robustness to Driver Reaction Time. 2020 , PP,	1
636	Platoon Trajectories Generation: A Unidirectional Interconnected LSTM-Based Car-Following Model. 2020 , 1-11	5
635	DeepCF: A Deep Feature Learning-Based Car-Following Model Using Online Ride-Hailing Trajectory Data. 2020 , 2020, 1-9	1

634	Evaluation of Al-Kufa City Road Networks Using GIS. 2020 , 978, 012014	1
633	Impact of delayed acceleration feedback on the classical car-following model. 2020 , 85, 584-604	1
632	Reliability enhancement of electrical power system including impacts of renewable energy sources: a comprehensive review. 2020 , 14, 1799-1815	30
631	Traffic Flow on a Ring With a Single Autonomous Vehicle: An Interconnected Stability Perspective. 2020 , 1-11	13
630	Traffic Flow in Scale-Free Hierarchical Directed Networks. 2020 , 89, 043002	2
629	A macroscopic traffic flow model considering the velocity difference between adjacent vehicles on uphill and downhill slopes. 2020 , 34, 2050217	5
628	A new car-following model on complex road considering driver's characteristics. 2020 , 34, 2050182	4
627	A new longitudinal car-following control scheme of AVs towards the non-connected situation. 2020 , 34, 2050135	0
626	Investigating the long- and short-term driving characteristics and incorporating them into car-following models. 2020 , 117, 102698	10
625	Modelling heterogeneous traffic dynamics by considering the influence of V2V safety messages. 2020 , 14, 220-227	1
624	An extended lattice hydrodynamic model with time delay based on non-lane discipline. 2020 , 34, 2050227	1
623	Optimal Seeds Discovery of Traffic Congestions. 2020 ,	
622	Free flow speed estimation: A probabilistic, latent approach. Impact of speed limit changes and road characteristics. 2020 , 138, 283-298	3
621	Simulation Strategies for Mixed Traffic Conditions: A Review of Car-Following Models and Simulation Frameworks. 2020 , 2020, 1-22	20
620	Extended Fundamental Diagrams. 2020 , 2674, 292-299	
619	Field experiments on longitudinal characteristics of human driver behavior following an autonomous vehicle. 2020 , 114, 205-224	29
618	Longitudinal Influence of Autonomous Vehicles and Vehicular Communication on Post-Accident Traffic. 2020 , 1-1	0
617	Driver's Anticipation and Memory Driving Car-Following Model. 2020 , 2020, 1-12	5

616	A two-dimensional car-following model for two-dimensional traffic flow problems. 2020 , 114, 504-516	9
615	A continuum model with traffic interruption probability and electronic throttle opening angle effect under connected vehicle environment. 2020 , 93, 1	7
614	The impact of the predictive effect on traffic dynamics in a lattice model with passing. 2020 , 93, 1	9
613	An Extended Car-Following Model Considering the Drivers' Characteristics under a V2V Communication Environment. 2020 , 12, 1552	6
612	A forward-looking anticipative viscous high-order continuum model considering two leading vehicles for traffic flow through wireless V2X communication in autonomous and connected vehicle environment. 2020 , 556, 124589	6
611	Safe, efficient, and comfortable velocity control based on reinforcement learning for autonomous driving. 2020 , 117, 102662	58
610	A New Two-Lane Lattice Hydrodynamic Model considering the Traffic Interruption Probability under Honk Environment. 2020 , 2020, 1-12	
609	A New Continuum Model considering Driving Behaviors and Electronic Throttle Effect on a Gradient Highway. 2020 , 2020, 1-22	4
608	A modified two-lane lattice hydrodynamics model considering the downstream traffic conditions. 2020 , 34, 2050250	1
607	Multi-ship following operation in ice-covered waters with consideration of inter-ship communication. 2020 , 210, 107545	8
606	Controllability Analysis and Optimal Control of Mixed Traffic Flow With Human-Driven and Autonomous Vehicles. 2020 , 1-15	11
605	Dynamical analysis of an optimal velocity model with time-delayed feedback control. 2020 , 90, 105333	12
604	Model-Based String Stability of Adaptive Cruise Control Systems Using Field Data. 2020 , 5, 90-99	37
603	Analysis of V2V Messages for Car-Following Behavior with the Traffic Jerk Effect. 2020 , 2020, 1-11	4
602	Modeling the Impact of Downstream Conditions on Discharging Behavior of Vehicles at Signalized Intersections Using Micro-Simulation. 2020 , 45, 4187-4202	4
601	Using Vehicle-to-Vehicle Communication to Improve Traffic Safety in Sand-dust Environment. 2020 , 17,	1
600	A Modified Car-following Model Considering Traffic Density and Acceleration of Leading Vehicle. 2020 , 10, 1268	2
599	A car-following model to assess the impact of V2V messages on traffic dynamics. 2020 , 8, 150-165	4

598	Analysis of Traffic Properties of Commuters in a Speed-Limit Corridor with Toll Station under Microscopic Method. 2020 , 146, 04020004	2
597	Would my driving pattern change if my neighbor were to buy an emission-free car?. 2020 , 60, 101153	3
596	Fragility Limits Performance in Complex Networks. 2020 , 10, 1774	3
595	An Improved Car-Following Speed Model considering Speed of the Lead Vehicle, Vehicle Spacing, and Driver's Sensitivity to Them. 2020 , 2020, 1-13	4
594	Stop-and-go waves induced by correlated noise in pedestrian models without inertia. 2020 , 7, 52-60	
593	An improved car-following model accounting for the time-delayed velocity difference and backward looking effect. 2020 , 85, 105221	18
592	Solid angle car following model. 2020 , 29, 060504	2
591	Modeling following behavior of vehicles using trajectory data under mixed traffic conditions: an Indian viewpoint. 2020 , 1-15	5
590	The Stability of Traffic Flow on Two Lanes Incorporating Driver's Characteristics Corresponding to Honk Effect Under V2X Environment. 2020 , 8, 73879-73889	2
589	Reducing gasoline consumption in mixed connected automated vehicles environment: A joint optimization framework for traffic signals and vehicle trajectory. 2020 , 265, 121836	20
588	MPC-based switched driving model for human vehicle co-piloting considering human factors. 2020 , 115, 102612	11
587	Longitudinal emissions evaluation of mixed (cooperative) adaptive cruise control traffic flow and its relationship with stability. 2020 , 70, 670-686	3
586	A new higher-order viscous continuum traffic flow model considering driver memory in the era of autonomous and connected vehicles. 2020 , 547, 123829	12
585	Characterisation of motorway driving style using naturalistic driving data. 2020 , 69, 72-79	7
584	Incorporating Driver Preferences Into Eco-Driving Assistance Systems Using Optimal Control. 2021 , 22, 2913-2922	4
583	Improving efficiency at highway T-junctions with connected and automated vehicles. 2021 , 17, 107-123	5
582	Dynamic performance and safety analysis of car-following models considering collision sensitivity. 2021 , 564, 125504	7
581	From Driving Simulator Experiments to Field-Traffic Application: Improving the Transferability of Car-Following Models. 2021 , 147, 04020145	1

580	Analysis of an extended two-lane lattice hydrodynamic model considering mixed traffic flow and self-stabilization effect. 2021 , 38, 58-82	1
579	On a general class of solutions for an optimal velocity model on an infinite lane. 2021 , 17, 258-277	2
578	Linear stability analysis of heterogeneous traffic flow considering degradations of connected automated vehicles and reaction time. 2021 , 561, 125218	40
577	Traffic flow cellular automaton model with bi-directional information in an open boundary condition. 2021 , 3, 1-9	1
576	Nonlinear analysis of the car-following model considering headway changes with memory and backward looking effect. 2021 , 562, 125303	10
575	Calibrating Microscopic Car-Following Models for Adaptive Cruise Control Vehicles: Multiobjective Approach. 2021 , 147, 04020150	5
574	Car following behavioral stochasticity analysis and modeling: Perspective from wave travel time. 2021 , 143, 160-176	5
573	Research on the influence of multiple historical speed information with different weight distribution on traffic flow stability. 2021 , 563, 125438	1
572	Studying perturbations and wave propagations by lane closures on traffic characteristics based on a dynamic approach. 2021 , 566, 125654	2
571	Reaction model of conflictive e-bikes and numerical simulation. 2021 , 566, 125657	1
570	Impacts of commercially available adaptive cruise control vehicles on highway stability and throughput. 2021 , 122, 102897	10
569	Designing continuous delay feedback control for lattice hydrodynamic model under cyber-attacks and connected vehicle environment. 2021 , 95, 105667	15
568	New feedback control for a novel two-dimensional lattice hydrodynamic model considering driver's memory effect. 2021 , 561, 125295	6
567	Incorporating human factors into LCM using fuzzy TCI model. 2021 , 9, 198-218	2
566	A lattice model accounting for multi-lane traffic system. 2021 , 564, 125446	7
565	A Queueing Model and Analysis for Autonomous Vehicles on Highways. 2021 , 67, 2904-2923	1
564	Hopf bifurcation structure of a generic car-following model with multiple time delays. 2021 , 17, 878-896	3
563	Can segregating vehicles in mixed-traffic stream improve safety and throughput? implications using simulation. 2021 , 17, 1002-1026	3

562	Study on the integration effect of multiple vehicles delayed velocities on traffic stability in intelligent transportation system environment. 2021 , 38, 929-940	2
561	. 2021 , 13, 222-235	7
560	Impacts of cooperative adaptive cruise control platoons on emissions under traffic oscillation. 2021 , 25, 376-383	9
559	Interaction-Aware Probabilistic Trajectory Prediction of Cut-In Vehicles Using Gaussian Process for Proactive Control of Autonomous Vehicles. 2021 , 9, 63440-63455	9
558	Traffic Dynamics at Intersections Subject to Random Misperception. 2021 , 1-11	1
557	Applications to Network Fault Detection and Isolation. 2021 , 175-206	
556	Improved Car-Following Model Considering Modified Backward Optimal Velocity and Velocity Difference with Backward-Looking Effect. 2021 , 09, 242-259	3
555	Modeling Heterogeneous Traffic Mixing Regular, Connected, and Connected-Autonomous Vehicles Under Connected Environment. 2021 , 1-16	4
554	Flow Breakdown. 2021 , 143-153	
553	Monitoring Link Faults in Nonlinear Diffusively-coupled Networks. 2021 , 1-1	
552	The Impact of Truck Platoons on the Traffic Dynamics Around Off-Ramp Regions. 2021 , 1-1	1
551	Connected Vehicles: Intelligent Transport Systems. 2021 , 81-99	
550	A Network Optimization Framework for Passive-Short Agents. 2021 , 39-80	
549	Optimal Control of Autonomous Vehicles for Traffic Smoothing. 2021 , 1-11	0
548	Continuous and Discrete Analysis of Local Stability for Car-Following Model With Speed-Based Desired-Headway. 2021 , 1-13	
547	. 2021 , 1-8	3
546	Introduction. 2021 , 1-17	
545	Applications of the Network Optimization Framework in Network Identification. 2021 , 135-173	

544	Congestion-Aware Cooperative Adaptive Cruise Control for Mitigation of Self-Organized Traffic Jams. 2021 , 1-12	1
543	. 2021 , 9, 111456-111462	1
542	A Car-Following Model of the Velocity Difference of Multiple Front Vehicles Considering Vehicle-Vehicle Internet. 2021 , 10, 2292-2304	
541	The Cooperative Car-Following Model With Consideration of the Stimulatory Effect of Lane-Changing Types. 2021 , 9, 92374-92385	
540	Spontaneous Wave Formation in Stochastic Self-Driven Particle Systems. 2021 , 81, 853-870	2
539	From Heterogeneous Microscopic Traffic Flow Models to Macroscopic Models. 2021 , 53, 309-322	6
538	Traffic Flow Analysis. 2021 , 544-556	
537	Introduction. 2021 , 1-14	
536	Multi-Front Vehicle Velocity Difference Car Following Model by Considering the Electronic Throttle Opening in Intelligent-Network Connected Cars. 2021 , 10, 2996-3009	0
535	An Improved Intelligent Driver Model Considering the Information of Multiple Front and Rear Vehicles. 2021 , 9, 66241-66252	4
534	An extended car-following model accounting for two preceding vehicles with mixed maximum velocity. 2021 , 35, 2150238	1
533	Rule 184 fuzzy cellular automaton as a mathematical model for traffic flow. 2021 , 38, 579-609	1
532	On string stability of a mixed and heterogeneous traffic flow: A unifying modelling framework. 2021 , 144, 133-154	21
531	Research on car-following model based on molecular dynamics. 2021 , 13, 168781402199300	2
530	Traffic flow modeling in fog with cellular automata model. 2021 , 35, 2150180	0
529	A double velocity control method for a discrete-time cooperative driving system with varying time-delay. 2021 , 565, 125579	0
528	Dynamics of traffic flow affected by the future motion of multiple preceding vehicles under vehicle-connected environment: Modeling and stabilization. 2021 , 565, 125538	5
527	Research on the Impacts of Generalized Preceding Vehicle Information on Traffic Flow in V2X Environment. 2021 , 13, 88	4

526	A Review of Car-Following Models and Modeling Tools for Human and Autonomous-Ready Driving Behaviors in Micro-Simulation. 2021 , 4, 314-335	17
525	Optimization and Evaluation of Platooning Car-Following Models in a Connected Vehicle Environment. 2021 , 13, 3474	2
524	Car-following model of connected and autonomous vehicles considering both average headway and electronic throttle angle. 2021 , 35, 2150257	4
523	Modeling and analysis of car-following behavior considering backward-looking effect*. 2021 , 30, 034501	5
522	An extended car-following model incorporating the effects of driver's memory and mean expected velocity field in ITS environment. 2150095	2
521	A Systematic Approach to Develop Metaheuristic Traffic Simulation Models from Big Data Analytics on Real-World Data.	
520	From homogeneous to heterogeneous traffic flows: Lp String stability under uncertain model parameters. 2021 , 146, 136-154	13
519	Avalanche of Traffic Jams in Directed Ladder Network. 2021 , 90, 043801	0
518	Heterogeneous traffic flow modeling with drivers' timid and aggressive characteristics.	3
517	Development of parametric eco-driving models for fuel savings: A novel parameter calibration approach. 2021 ,	
516	Modeling and Simulation of Traffic Flow Considering Driver Perception Error Effect. 2021 , 147, 04021009	
515	An evaluation framework of automated electric transportation system. 2021 , 148, 102265	2
514	2021 2021 , 33, 35-46	0
513	An inner full-state feedback control model for traffic flow system. 2021 , 1848, 012059	
512	Stabilization strategy of a car-following model with multiple time delays of the drivers.	1
511	A formulation of the relaxation phenomenon for lane changing dynamics in an arbitrary car following model. 2021 , 125, 103081	2
510	Modeling the Operation of Left-Turn Vehicles at Exit Lanes for Left-Turn Intersections. 2021 , 147, 04021022	1
509	Stability analysis of multiple lattices' self-anticipative density integration effect based on lattice hydrodynamic model in V2V environment.	1

508	Characteristics and Model of Vehicle Flow Fluctuation Based on Molecular Dynamics. 2021,	
507	A novel two-lane lattice hydrodynamic model on a gradient road considering heterogeneous traffic flow. 2021, 35, 2150340	0
506	Macro autonomous traffic flow model with traffic jerk and downstream vehicle information. 2021, ahead-of-print,	
505	Car-following behavior characteristics of adaptive cruise control vehicles based on empirical experiments. 2021, 147, 67-91	15
504	Output Feedback Controller Design for a Mixed Traffic Flow System Moving in a Loop. 2021,	0
503	Feedback control for car-following model with the consideration of the delay memory driving behavior. 2021,	
502	Approximating the Transition Probability Function Corresponding to the Solution of Stochastic Optimal Velocity Dynamical Model. 2021,	
501	Driving control based on bilevel optimization and fuzzy logic. 2021, 36, 4495-4523	1
500	A stable velocity control strategy for a discrete-time car-following model. 2021, 571, 125846	1
499	An extended smart driver model considering electronic throttle angle changes with memory.	
498	Bifurcation analysis of a heterogeneous continuum traffic flow model. 2021, 94, 369-387	7
497	MTL-LSTM: Multi-Task Learning-based LSTM for Urban Traffic Flow Forecasting. 2021,	0
496	Internet connected vehicle platoon system modeling and linear stability analysis. 2021, 174, 92-100	3
495	A priority tree based coordination method for intelligent and connected vehicles at unsignalized intersections. 2021, 15, 1053-1063	0
494	Modeling oscillatory car following using deep reinforcement learning based car following models. 2021,	0
493	Density waves in car-following model for autonomous vehicles with backward looking effect. 2021, 94, 1-12	10
492	Automated vehicle-involved traffic flow studies: A survey of assumptions, models, speculations, and perspectives. 2021, 127, 103101	16
491	Design and Numerical Implementation of V2X Control Architecture for Autonomous Driving Vehicles. 2021, 9, 1696	2

490	Stochastic process in railway traffic flow: Models, methods and implications. 2021 , 128, 103167	5
489	A discrete-continuous multi-vehicle anticipation model of driving behaviour in heterogeneous disordered traffic conditions. 2021 , 128, 103144	4
488	A novel distributed cooperative approach for mixed platoon consisting of connected and automated vehicles and human-driven vehicles. 2021 , 573, 125939	8
487	Modeling Car-Following Heterogeneities by Considering Leader-Follower Compositions and Driving Style Differences. 036119812110200	1
486	A novel two-lane continuum model considering driver's expectation and electronic throttle effect. 2021 , 35, 2150385	1
485	Empirical study on car-following characteristics of commercial automated vehicles with different headway settings. 2021 , 128, 103134	12
484	Car-Following Described by Blending Data-Driven and Analytical Models: A Gaussian Process Regression Approach. 036119812110326	2
483	CO2 emission control in new CM car-following model with feedback control of the optimal estimation of velocity difference under V2X environment.	1
482	Effect of individual differences on the jamming transition in traffic flow. <i>Physical Review E</i> , 2021 , 104, 014311	2.4
481	Experimental study on properties of lightly congested flow. 2021 , 149, 1-19	2
480	Understanding of spatiotemporal congestion patterns: A lattice model with predictive effect and density integral. 2021 , 35, 2150206	
479	A stochastic behaviour model of a personal mobility under heterogeneous low-carbon traffic flow. 2021 , 128, 103163	4
478	String Stability Analysis of Connected Vehicular Systems Based on Car-Following Model. 2021 , 147, 04021038	2
477	Noise-induced instability of a class of stochastic higher order continuum traffic models. 2021 , 150, 260-278	7
476	Learning-Based Stochastic Driving Model for Autonomous Vehicle Testing. 036119812110357	0
475	Review of Learning-Based Longitudinal Motion Planning for Autonomous Vehicles: Research Gaps Between Self-Driving and Traffic Congestion. 036119812110357	4
474	Response and flux of information in extended nonequilibrium dynamics. <i>Physical Review E</i> , 2021 , 104, 024116	2.4 2
473	Evolution of Traffic Microsimulation and Its Use for Modeling Connected and Automated Vehicles. 2021 , 2021, 1-29	6

472	A physics-informed deep learning paradigm for car-following models. 2021 , 130, 103240	8
471	A Space-Based Car-Following Model: Development and Application for Managed Motorway System Safety Evaluation. 2021 , 1, 443-465	
470	Car-Following Model Calibration Based on Driving Simulator Data to Study Driver Characteristics and to Investigate Model Validity in Extreme Traffic Situations. 036119812110326	0
469	An extended car-following model considering the effect of two-sided lateral gap with uncertain velocity on curved road. 2021 , ahead-of-print,	0
468	Simultaneous Intelligent Anticipation and Control of Follower Vehicle Observing Exiting Lane Changer. 2021 , 70, 8567-8577	1
467	Study on the Lyapunov Stability of a Time-Discrete Macro Traffic System with Variable Delay and Feedback Control. 2021 , 10, 2346	
466	.1	2
465	Modeling the heterogeneous traffic flow considering the effect of self-stabilizing and autonomous vehicles.	2
464	An extended two-lane car-following model considering the influence of heterogeneous speed information on drivers with different characteristics under honk environment. 2021 , 578, 126022	3
463	Modeling of cooperative adaptive cruise control vehicle and its effect on traffic flow. 2250022	0
462	Inverse Model Predictive Control (IMPC) Based Modeling and Prediction of Human-Driven Vehicles in Mixed Traffic. 2021 , 6, 501-512	2
461	Multiple-Factors Aware Car-Following Model for Connected and Autonomous Vehicles. 036119812110452	1
460	The knowledge domain of crowd dynamics: Anatomy of the field, pioneering studies, temporal trends, influential entities and outside-domain impact. 2021 , 580, 126145	10
459	Multi-anticipative bi-directional visual field traffic flow models in the connected vehicle environment. 2021 , 584, 126372	2
458	A multi-agent based cellular automata model for intersection traffic control simulation. 2021 , 584, 126356	6
457	A statistical mechanics approach to macroscopic limits of car-following traffic dynamics. 2021 , 137, 103806	1
456	A continuous traffic flow model considering predictive headway variation and preceding vehicle's taillight effect. 2021 , 584, 126364	3
455	A comprehensive comparison study of four classical car-following models based on the large-scale naturalistic driving experiment. 2021 , 113, 102383	3

454	One-parametric bifurcation analysis of data-driven car-following models. 2021 , 427, 133016	
453	A Platoon Formation Framework in a Mixed Traffic Environment. 2022 , 6, 1370-1375	5
452	A microscopic traffic flow model for sharing information from a vehicle to vehicle by considering system time delay effect. 2022 , 585, 126437	0
451	Bifurcation analysis of an extended macro model considering time delay and anticipation effect. 2022 , 585, 126434	0
450	Stability Analysis of Mixed Traffic Flow using Car-Following Models on Trajectory Data. 2021 ,	
449	An extended continuum mixed traffic model. 2021 , 103, 1891-1909	3
448	An Improved Car-Following Model considering Desired Safety Distance and Heterogeneity of Driver's Sensitivity. 2021 , 2021, 1-12	1
447	Human-like Decision Making and Motion Control for Smooth and Natural Car Following. 2021 , 1-1	0
446	On the Impact of Prior Experiences in Car-Following Models: Model Development, Computational Efficiency, Comparative Analyses, and Extensive Applications. 2021 , PP,	2
445	Driving behaviour modelling in the context of heterogeneous traffic and poor lane discipline conditions: the state of the art and beyond. 1-68	2
444	Anticipative and Predictive Control of Automated Vehicles in Communication-Constrained Connected Mixed Traffic. 2021 , 1-14	2
443	Modeling and Simulating Urban Traffic Flow Mixed With Regular and Connected Vehicles. 2021 , 9, 10392-10399	
442	Multi-Anticipative Average Flux Effect in the Lattice Hydrodynamic Model. 2021 , 9, 35279-35286	1
441	Stability Analysis of Car-Following Systems With Uniformly Distributed Delays Using Frequency-Sweeping Approach. 2021 , 9, 69747-69755	1
440	Model-Free Practical Cooperative Control for Diffusively Coupled Systems. 2021 , 1-1	4
439	A Data-Driven Car-Following Model Based on the Random Forest. 2021 , 09, 503-515	1
438	Flow: A Modular Learning Framework for Mixed Autonomy Traffic. 2021 , 1-17	6
437	Bibliography. 251-258	0

436	Production, Supply, and Traffic Systems: A Unified Description. 2005 , 173-188	10
435	Probabilistic Traffic Flow Breakdown in Stochastic Car Following Models. 2005 , 87-103	3
434	Encyclopedia of Complexity and Systems Science. 2009 , 9302-9355	20
433	Driver Behavior Modeling. 2012 , 537-558	13
432	A Survey of Collectives. 2004 , 1-42	25
431	Transportation Models. 2014 , 45-108	2
430	Prediction of Pedestrian Speed with Artificial Neural Networks. 2019 , 327-335	4
429	Feedback Control Algorithms for the Dissipation of Traffic Waves with Autonomous Vehicles. 2019 , 275-299	8
428	The Trouble with 2nd Order Models or How to Generate Stop-and-Go Traffic in a 1st Order Model. 2020 , 45-51	1
427	Wavefronts in Traffic Flows and Crowds Dynamics. 2021 , 167-189	3
426	Predicting Severity of Road Traffic Congestion Using Semantic Web Technologies. 2014 , 611-627	21
425	Local Stability Conditions and Calibrating Procedure for New Car-Following Models Used in Driving Simulators. 2015 , 453-461	1
424	Cellular Automaton Model with Non-hypothetical Congested Steady State Reproducing the Three-Phase Traffic Flow Theory. 2014 , 610-619	2
423	A Stochastic Optimal Velocity Model for Pedestrian Flow. 2016 , 528-538	3
422	Collision-Free Speed Model for Pedestrian Dynamics. 2016 , 225-232	14
421	Generating Realistic Road Usage Information and Origin-Destination Data for Traffic Simulations: Augmenting Agent-Based Models with Network Techniques. 2018 , 1223-1233	4
420	Wave Selection Problems in the Presence of a Bottleneck. 2007 , 565-575	1
419	Solvability and Metastability of the Stochastic Optimal Velocity Model. 2007 , 595-601	1

418	Modeling Lane-Changing Decisions with MOBIL. 2009 , 211-221	14
417	Cellular Automaton Approach to Highway Traffic: What do we Know?. 2009 , 19-34	7
416	Control of Traffic Congestion in the Modified Coupled Map Car-Following Model Based on Intelligent Transportation System. 2009 , 315-320	2
415	Generic Driving Behavior Modeling by Differential Game Theory. 2009 , 321-331	2
414	Nonlocal Second Order Vehicular Traffic Flow Models And Lagrange-Remap Finite Volumes. 2011 , 781-789	2
413	Encyclopedia of Complexity and Systems Science. 2018 , 1-89	4
412	Encyclopedia of Complexity and Systems Science. 2018 , 1-30	2
411	Optimal Density in a Queue with Starting-Wave. 2013 , 171-178	1
410	Phase Transitions in Traffic Flow. 2000 , 253-283	27
409	Microscopic Simulation of Congested Traffic. 2000 , 365-376	25
408	Euler and Lagrange Representation of Traffic Models. 2003 , 3-12	5
407	Breakdown and Recovery in Traffic Flow Models. 2003 , 141-153	6
406	The Generalized Fundamental Diagram of Traffic and Possible Applications. 2003 , 169-186	1
405	Three-Phase Traffic Theory. 2003 , 13-50	7
404	8-Figured Hysteresis Loop of OV Model. 2003 , 235-240	1
403	Existence and Classification of Travelling Wave Solutions to Second Order Highway Traffic Models. 2003 , 85-90	5
402	Basic Driving Dynamics of Cyclists. 2014 , 18-32	3
401	Resilience of Spatial Networks. 2016 , 79-106	3

400	Simulation and Theoretical Comparison between Zipper and Non-Zipper Merging. 2010 , 244-251	1
399	Asymmetric Interaction in Non-equilibrium Dissipative System towards Dynamics for Biological System. 2009 , 189-200	2
398	Analysis of Vehicular Behavior at Bottlenecks Considering Lateral Separation. 2017 , 169-185	1
397	A Critical Comparison of the Kinematic-wave Model with Observational Data. 2005 , 145-163	11
396	The modified optimal velocity model: stability analyses and design guidelines. 2017 , 2, 18-32	5
395	A new continuum model with driver's continuous sensory memory and preceding vehicle's taillight. 2020 , 72, 105004	8
394	A new car-following model with driver's anticipation effect of traffic interruption probability. 2020 , 29, 084501	2
393	Theoretical analysis of bifurcations in a microscopic traffic model accounting for optimal velocity. 2017 , 31, 1750244	26
392	Effects of Bottlenecks on Vehicle Traffic. 2006 , 75, 114601	10
391	DC2S. 2010 ,	5
390	Fidelity and Performance of State Fast-forwarding in Microscopic Traffic Simulations. 2020 , 30, 1-26	2
389	Exact solutions to the nonlinear equation in traffic congestion. 2020 , 2020,	1
388	On a discrete optimal velocity model and its continuous and ultradiscrete relatives. 2009 , 1, 1-4	6
387	A hybrid of the optimal velocity and the slow-to-start models and its ultradiscretization. 2009 , 1, 68-71	2
386	A new compressible fluid model for traffic flow with density-dependent reaction time of drivers. 2009 , 1, 72-75	2
385	Traffic Theory from First Principles.	1
384	On the coexistence of human-driven and automated vehicles within platoon systems. 2019 ,	4
383	Car-Following Model for Motorway Traffic.	18

382	Homogenization of second order discrete model with local perturbation and application to traffic flow. 2017 , 37, 1437-1487	2
381	A model for the evolution of traffic jams in multi-lane. 2012 , 5, 697-728	11
380	Shock formation in a traffic flow model with Arrhenius look-ahead dynamics. 2011 , 6, 681-694	17
379	Stochastic control of traffic patterns. 2013 , 8, 261-273	2
378	Qualitative analysis of some PDE models of traffic flow. 2013 , 8, 773-781	1
377	Comparative model accuracy of a data-fitted generalized Aw-Rascle-Zhang model. 2014 , 9, 239-268	41
376	Véhicules coopératifs pour une gestion dynamique du trafic: approche théorique et simulation. 2013 , 2013, 47-58	1
375	Estimation of the bus delay at the stopping point on the base of traffic parameters. 2015 , 35, 15-25	5
374	Analysis of the stability and solitary waves for multi-velocity difference car-following model of traffic flow. 2012 , 61, 160509	3
373	A new car-following model considering drivers heterogeneity of the disturbance risk appetite. 2014 , 63, 068901	5
372	A car-following model with considering control signals from front and rear. 2014 , 63, 110504	10
371	A car-following model with the consideration of vehicle-to-vehicle communication technology. 2016 , 65, 010502	12
370	Study of highway lane-changing model under rain weather. 2016 , 65, 064501	3
369	Leading Cruise Control in Mixed Traffic Flow: System Modeling, Controllability, and String Stability. 2021 , 1-16	2
368	Control Chaos of a Unidirectionally Traffic Coupled Map Lattice Model. 2021 , 09, 2527-2533	
367	The Effect of Input Signals Time-Delay on Stabilizing Traffic with Autonomous Vehicles. 2021 ,	
366	Spatiotemporal Chaos and Control of a Unidirectionally Traffic Coupled Map Lattice Model. 2021 ,	
365	Life-long Learning System of Driving Behaviors from Vehicle Data Streams. 2021 ,	

364	Personalized Adaptive Cruise Control via Gaussian Process Regression. 2021 ,	2
363	Analysis of the Generalized Intelligent Driver Model (GIDM) for Uncontrolled Intersections. 2021 ,	1
362	A Novel Mixed Traffic Flow Model Considering V2I, Vehicle Size and Driving Style Difference. 2021 ,	
361	Data-Driven Modelling of Car-Following Behavior in the Approach of Signalized Urban Intersections. 2021 ,	1
360	Classification of adaptive cruise control vehicle type based on car following trajectories. 2021 ,	0
359	An Improved Model of Driving Risk Field for Connected and Automated Vehicles. 2021 ,	0
358	Extending the adaptive time gap car-following model to enhance local and string stability for adaptive cruise control systems. 1-21	0
357	Self-delayed feedback car-following control with the velocity uncertainty of preceding vehicles on gradient roads. 2021 , 106, 3379	2
356	Stability analysis of pedestrian traffic flow in horizontal channels: A numerical simulation method. 2022 , 587, 126528	0
355	Stabilizing mixed cooperative adaptive cruise control traffic flow to balance capacity using car-following model. 1-23	4
354	Analysis of a Novel Two-Dimensional Lattice Hydrodynamic Model Considering Predictive Effect. 2021 , 9, 2464	0
353	An improved car-following model based on multiple preceding vehicles under connected vehicles environment.	
352	Impact of interruption probability of the current optimal velocity on traffic stability for car-following model.	
351	Lyapunov stability analysis for a discrete-time lattice hydrodynamic model with steady flow control.	0
350	An Extended Car-Following Model in Connected and Autonomous Vehicle Environment: Perspective from the Cooperation between Drivers. 2021 , 2021, 1-17	2
349	An s-shaped three-parameter (S3) traffic stream model with consistent car following relationship. 2021 , 153, 246-271	20
348	Connected automated vehicle cooperative control with a deep reinforcement learning approach in a mixed traffic environment. 2021 , 133, 103421	6
347	Relating Car-Following and Continuum Models of Road Traffic. 2000 , 389-394	1

- 346 Microscopic Randomness in Follow-the-Leader Dynamics. **2000**, 395-400 2
- 345 Stable and Metastable States in Congested Traffic. **2000**, 419-424 2
- 344 Noise Induced Congestion in Coupled Map Optimal Velocity Model of Traffic Flow. **2000**, 383-391 0
- 343 Microscopic Randomness and Fundamental Diagram in the Traffic Flow Problem. **2000**, 343-356
- 342 Gipps Model of Highway Traffic. **2002**, 293-297 0
- 341 Travelling Waves in a Linearly Stable, Optimal-Velocity Model of Road Traffic. **2002**, 281-285
- 340 A realistic simulation for Highway Traffic by the use of Cellular Automata. **2002**, 763-772 2
- 339 Stability of Multi-Lane Traffic Flow. **2003**, 227-233
- 338 Kinetic Theory of Traffic Flows. **2003**, 155-168 0
- 337 Asymmetric Optimal Velocity Model. **2003**, 115-118
- 336 Continuum Traffic Equations from Microscopic Car-Following Models. **2003**, 65-78
- 335 Stochastic Resonance Towards Traffic Models. **2003**, 187-198
- 334 Widely Extended Optimal Velocity Model of Traffic Flow and their Linear Stability. **2003**, 221-226 1
- 333 Economic Fluctuations Based on Optimal Diffusion Index Model. **2007**, 76, 124003 2
- 332 Exact Traveling Cluster Solutions of Differential Equations with Delay for a Traffic Flow Model. **2008**, 413-418
- 331 Traffic Behaviors of Mixed Bicycle System in the Multi-Value Cellular Automata Model. **2009**, 339-350
- 330 Similarity Between Temporal and Spatial Structures in Pattern Formation of Dissipative Non-Equilibrium System. **2009**, 253-258
- 329 Colliding Particles: Beyond Accident-Free Car Following Models. **2009**, 65-84

- 328 Dynamics of Dissipative System with Asymmetric Interaction and N-Body Problem for the Emergence of Moving Cluster. **2009**, 555-563 1
- 327 Optimal Velocity Model Via Considering Multi-Velocity Difference Ahead. **2009**, 181-188
- 326 Earlier Theoretical Basis of Transportation Engineering: Fundamental Diagram Approach. **2009**, 173-219 1
- 325 References. **2009**, 141-147
- 324 A spatio-temporal GIS-based multi agent traffic micro-simulation for identifying the most important accident locations. **2009**,
- 323 A spatio-temporal GIS-based multi agent traffic micro-simulation for identifying the most important accident locations. **2009**, 439-450
- 322 Nonlinear Analysis of a Hybrid Optimal Velocity Model with Relative Velocity for Traffic Flow. **2010**, 58-63
- 321 A Velocity-Clearance Relation in the Rule-184 Cellular Automaton as a Model of Traffic Flow. **2010**, 580-588
- 320 Effect of the lane changing probability on the kinetic energy of traffic system. **2010**, 59, 6003 7
- 319 Einfache Fahrzeugfolgemodelle. **2010**, 139-153
- 318 Agent Based Evacuation Model with Car-Following Parameters by Means of Cellular Automata. **2010**, 71-86
- 317 A Compressible Fluid Model for Traffic Flow and Nonlinear Saturation of Perturbation Growth. **2010**, 308-315
- 316 Chase and Escape in Groups. **2010**, 570-579 2
- 315 Construction of DEM-base Traffic Model Using Optimal Velocity Model. **2011**, 231-236
- 314 A traffic flow lattice model with the consideration of driver anticipation effect and its numerical simulation. **2011**, 60, 068901 11
- 313 Guide to the Literature. **2011**, 489-490
- 312 Unidirectional Air Traffic Flow Control Using Airborne Surveillance. **2011**, 59, 76-82 3
- 311 Improved Car-Following Model for Traffic Flow and Its Numerical Simulation on Highway with Gradients. **2011**, 162-168

- 310 Dynamic Analysis and Numerical Simulation on the Road Turning with Ultra-High. **2011**, 173-178
- 309 Sonic Speed on Pedestrian Dynamics: Relation between Sonic Speed and Density. **2011**, 893-897
- 308 Reversal of Travel Time between Zipper and Non-Zipper Mergings on Highway Traffic under the Existence of Vehicles Going Straight. **2011**, 4, 43-49 0
- 307 Traffic Phenomena in Biology. **2011**, 461-488
- 306 Considering two-velocity difference effect for coupled map car-following model. **2011**, 60, 080508 14
- 305 Bibliography. **2011**, 491-547
- 304 Methodology for Solving Congestion Formed by Multiple Mobile Robots -Development of Intelligent Cruise Control Technique and Behavior Rule-. **2011**, 29, 726-736
- 303 A study of the emergence of kinematic waves in targeted state car-following models of traffic.
- 302 The Physical Foundation of Car-following Model. **2012**, 03, 114-116
- 301 Coordination of Multiple Mobile Robots based on Adaptive Cruise Control. **2012**, 30, 788-796
- 300 Traffic Flow Merging and Bifurcating at Junction on Two-Lane Highway. **2012**, 02, 203-215 1
- 299 Curved road traffic flow car-following model and stability analysis. **2012**, 61, 074501 7
- 298 On the Controversy Around Daganzo's Requiem for and AwBascle's Resurrection of Second-Order Traffic Flow Models. **2013**, 271-302
- 297 Effect of Rhythm on Pedestrian Flow. **2013**, 187-196
- 296 Feedback Control of Traffic Signal Network of Less Traffic Sensors by Help of Machine Learning. **2013**, 853-861
- 295 A modified feedback controlled car-following model considering the comprehensive information of the nearest-neighbor leading car. **2013**, 62, 170503 7
- 294 Approach towards Left-Turning Vehicles Trajectory at the Intersection Based on Video Technology. **2013**, 1-7
- 293 A new car-following model considering lateral separation and overtaking expectation. **2013**, 62, 108901 5

- 292 Modeling and analysis of vehicle behavior at bottlenecks. **2013**, 62, 168901 4
- 291 Modeling and Control of Traffic Flow. 111-171
- 290 Effects of comprehensive information of the nearest following vehicle on traffic flow instability. **2014**, 63, 218901 4
- 289 Traffic Dynamics and Congested Phases Derived from an Extended Optimal-Velocity Model. **2014**, 06, 462-471
- 288 Simulation of optimal control of train movement based on car-following model. **2014**, 63, 070202 1
- 287 Traffic Assignments to Transportation Networks. **2014**, 109-137
- 286 The Effect of Speed Controls on Traffic. **1998**, 351-360
- 285 Stability and Homogenization of the Optimal Velocity Model. **2015**, 549-555
- 284 Generic First-Order Car-Following Models with Stop-and-Go Waves and Exclusion. **2015**, 485-493
- 283 Why Does Traffic Jam Acts Universally?. **2015**, 541-547 1
- 282 Equation-Free Analysis of Macroscopic Behavior in Traffic and Pedestrian Flow. **2015**, 423-439
- 281 Modeling and Analysis of Traffic Flow Considering Vehicles with Automatic Gap Control. **2015**, 135, 765-774
- 280 Analysis of evolution mechanism of traffic energy dissipation by considering driver's forecast effect. **2015**, 64, 154503 1
- 279 Chases and Escapes: From Singles to Groups. **2015**, 139-166
- 278 Traffic model by braking capability and response time. **2015**, 2015, P06019
- 277 A General Scheme for Deterministic Microscopic Traffic Models. Part I: Theoretical Construction. **2016**, 451-458
- 276 Computer-Aided Bifurcation Analysis for a Novel Car-Following Model with Relative Velocity Effect. **2016**, 387-394
- 275 Calibration of Car-Following Models Considering the Impacts of Warning Messages from Tablet/Smartphone Application. **2016**, 06, 61-75 1

- 274 Fast and stable estimation of macroscopic parameters in particle systems by data assimilation. **2016**, 2016, 132-136
- 273 Jam Avoidance with Autonomous Systems. **2016**, 411-418
- 272 A Force-Based Model to Reproduce Stop-and-Go Waves in Pedestrian Dynamics. **2016**, 169-175 2
- 271 Stability Analysis of Car-Following Model with Uncertainty in Perceiving Velocity. **2017**, 409-415
- 270 Bibliography. 329-336
- 269 Introduction The Reason for Paradigm Shift in Transportation Science. **2017**, 1-71
- 268 On a delay differential equation arising from a car-following model: Wavefront solutions with constant-speed and their stability. **2017**, 22, 3317-3340
- 267 The Reason for Incommensurability of Three-Phase Theory with Classical Traffic Flow Theories. **2017**, 307-366
- 266 Failure of Generally Accepted Classical Traffic Flow Theories. **2017**, 123-186
- 265 Driver Behavior Injection in Microscopic Traffic Simulations. **2017**, 237-248 2
- 264 Applying Machine Reasoning and Learning in Real World Applications. **2017**, 241-257 1
- 263 Following Consensus in Multi-vehicle Systems with Chain and Ring Coupling. **2018**, 353-361
- 262 Encyclopedia of Complexity and Systems Science. **2018**, 1-35
- 261 Investigating the Large-Scale Effects of Human Driving Behavior on Vehicular Traffic Flow. **2019**, 204-215 1
- 260 The Fundamental Diagram. **2019**, 21-34 1
- 259 Stabilization Analysis of Mixed Traffic Flow with Electric Vehicles Based on the Modified Multiple Velocity Difference Model. **2019**, 251-261 1
- 258 Vehicle Behaviors Simulation Technology Based on Neural Network. **2019**, 67-84
- 257 Increase of Traffic Efficiency by Mutual Concessions of Autonomous Driving Cars Using Deep Q-Network. **2019**, 357-375

256	The Stability and Soliton of the Optimal Velocity Model Considering Speed Limit. 2019 , 08, 187-196	
255	Towards Eliminating Overreacted Vehicular Maneuvers: Part I Model Development and Calibration. 2019 , 135-143	
254	Pedestrian-vehicle interference at a signalized crossing based on detailed microscopic traffic flow models. 2019 , 68, 240505	
253	Towards Eliminating Overreacted Vehicular Maneuvers: Part II Comparative Analyses. 2019 , 145-154	
252	Noise-Induced Stop-and-Go Dynamics. 2019 , 337-345	
251	On the Impact of Emergency Incidents on the Freeway: A Full Velocity Difference (FVD) Model Based Four-Lane Traffic Dynamics Simulation. 2019 , 165-174	
250	Development of lane-close model using micro traffic simulation. 2019 , 20, 1285-1290	2
249	Study on comfortable distance based car-following model with trajectory data. 2019 ,	
248	Reversible Transitions in a Cellular Automata-Based Traffic Model with Driver Memory. 2019 , 2019, 1-8	167
247	A Look-ahead Car Following Scheme for Efficient Driving on Urban Roads. 2020 , 53, 13836-13841	2
246	Linear Stability and Nonlinear Analysis of an Extended Optimal Velocity Model Considering the Speed Limit. 2020 , 08, 507-518	0
245	To Investigate the Hidden Gap between Traffic Flow Fundamental Diagrams and the Derived Microscopic Car Following Models: A Theoretical Analysis. 2020 , 89-98	
244	An Algorithm-optimized Car-following Model Based on Chengdu Ring Expressway Traffic Flow Characteristics. 2020 ,	
243	An Investigation into the Appropriateness of Car-Following Models in Assessing Autonomous Vehicles. 2021 , 21,	1
242	A deep learning-assisted mathematical model for decongestion time prediction at railroad grade crossings. 1	0
241	Structural Properties of the Stability of Jamitons. 2021 , 35-62	1
240	Impact of Disturbances on Mixed Traffic Control with Autonomous Vehicles. 2020 ,	2
239	A Novel Model for the Traffic of Urban Roads Based on Queuing Theory. 2020 ,	1

- 238 From Kinetic to Macroscopic Models and Back. **2021**, 17-34
- 237 Explainable Congestion Attack Prediction and Software-level Reinforcement in Intelligent Traffic Signal System. **2020**, 2
- 236 Leading Cruise Control in Mixed Traffic Flow. **2020**, 4
- 235 Understanding the Trigger of Breakdown at Tunnel Sag Section and Exploring the Cause with an Improved Car-Following Model. **2020**,
- 234 Extended Longitudinal Motion Planning for Autonomous Vehicles on Highways Including Lane Changing Prediction. **2020**, 495-503
- 233 LYAPUNOV STABILITY ANALYSIS BASED ON AN IMPROVED OV MODEL.. **2020**, 9, 203-206
- 232 Robustness Analysis of Car-Following Models for Full Speed Range ACC Systems. **2020**, 571-581
- 231 SceneGen: Learning to Generate Realistic Traffic Scenes. **2021**, 4
- 230 A DNN Based Driving Scheme for Anticipatory Car Following Using Road-Speed Profile. **2021**, 0
- 229 Analysis of the Generalized Intelligent Driver Model (GIDM) for merging situations. **2021**, 0
- 228 A continuum model considering the uncertain velocity of preceding vehicles on gradient highways. **2021**, 126561 1
- 227 Bifurcation Analysis of Meta-Stability and Waves of the OV Model. **2005**, 247-252 0
- 226 The Wonderful World of Active Many-Particle Systems. **2001**, 357-369 1
- 225 Instability of pedestrian flow in two-dimensional optimal velocity model. **2007**, 321-332 2
- 224 Linking Cellular Automata and Optimal-Velocity Models Through Wave Selections at Bottlenecks. **2007**, 515-520
- 223 Variance-Driven Traffic Dynamics. **2007**, 551-557 1
- 222 Compartment Lines Forming Emergent Alternative Configurations of Vehicles on Weaving Sections. **2008**, 425-432
- 221 Distressed in the queue? Psychophysiological and behavioral evidence for two alternative car-following techniques. **2020**, 74, 418-432 1

220	Intelligent back-looking distance driver model and stability analysis for connected and automated vehicles. 2020 , 27, 3499-3512	5
219	A Calibrated Force-based Model for Mixed Traffic Simulation. 2021 , PP,	0
218	Heterogeneous traffic flow model under connected vehicles environment considering cyberattacks.	
217	An Extended Car-Following Model Based on Visual Angle and Electronic Throttle Effect. 2021 , 9, 2879	0
216	Modeling AVs & RVs Car-following behavior by considering impacts of multiple surrounding vehicles and driving characteristics. 2021 , 589, 126625	0
215	The non-lane-discipline-based car-following model considering forward and backward vehicle information under connected environment. 1	2
214	Ecological control strategy for cooperative autonomous vehicle in mixed traffic considering linear stability. 2021 , ahead-of-print,	10
213	A new lattice model integrating the flux limit effect under V2X environment. 2021 , 589, 126609	1
212	Impact of Strong Wind and Optimal Estimation of Flux Difference Integral in a Lattice Hydrodynamic Model. 2021 , 9, 2897	0
211	Identifiability of car-following dynamics. 2021 , 133090	
210	Analysis and comparison of traffic flow models: a new hybrid traffic flow model vs benchmark models. 2021 , 13,	1
209	Power-law Distribution in City-scale Traffic Simulation and Tree Structure in the Road Network. 2021 , 141, 1388-1396	
208	Look-ahead Driving Schemes for Efficient Control of Automated Vehicles on Urban Roads. 2021 , 1-1	1
207	Fundamental diagrams of commercial adaptive cruise control: Worldwide experimental evidence. 2022 , 134, 103458	2
206	A semi-discrete model of traffic flow in correspondence with a continuum model under Lagrange coordinate system. 2022 , 590, 126684	
205	Influences of dynamic safe headway on car-following behavior. 2022 , 591, 126697	1
204	Fuzzy Neural Network-Based Assessment of Road Traffic Situations Using Extracted Information Obtained from Optical High-Resolution Satellite Remote Sensing Images. 2020 ,	
203	Predictive control of an autonomous vehicle to reduce traffic instability. 2020 ,	1

- 202 Predictive Control of Connected Mixed Traffic under Random Communication Constraints. **2020**,
- 201 A Car-following Model for Mixed Traffic Flow Consisting of Human-driven Vehicles and Connected Vehicles. **2020**,
- 200 Automated driving transmission model of mixed traffic flow and simulation.
- 199 A sliding-mode control approach towards design of driving assistance system for lane-change maneuver in connected vehicles. **2021**,
- 198 Formulating Connected Automated Vehicle Dynamics under Cyberattacks Based on the Spring-Mass System. **2021**,
- 197 Introduction. **2022**, 1-14
- 196 Safe driving model based on V2V vehicle communication. **2022**, 1-1
- 195 Traffic Monitoring and Reconstruction. **2022**, 3-29
- 194 A Novel Asymmetric Car Following Model for Driver-Assist Enabled Vehicle Dynamics. **2022**, 1-11 2
- 193 How incidents impact congestion on roadways: A queuing network approach. **2022**, 11, 100067 1
- 192 An improved car-following model considering the preceding vehicle's velocity feedback and desired inter-vehicle distance.
- 191 Influence of driver's behavior with empirical lane changing on the traffic dynamics. **2022**, 95, 1 0
- 190 Road traffic modeling. **2022**, 15-63 0
- 189 A Mechanical System Inspired Microscopic Traffic Model: Modeling, Analysis, and Validation. **2022**, 1-1 1
- 188 Enabling Equation-Free Modeling via Diffusion Maps. 1
- 187 An extended car-following model accounting for average optimal velocity difference and backward-looking effect based on the Internet of Vehicles environment. 0
- 186 A Real-Time Safety-Based Optimal Velocity Model. **2022**, 1-1
- 185 A novel lattice hydrodynamic model accounting for individual difference of honk effect for two-lane highway under V2X environment.

- 184 The Lord of the Ring Road: A Review and Evaluation of Autonomous Control Policies for Traffic in a Ring Road. **2022**, 6, 1-25 1
- 183 Car-Following Dynamics, Characteristics, and Model Based on Interaction Potential Function. **2022**, 2022, 1-11
- 182 Proposed Empirical Approach to Measuring Traffic String Stability. **2022**, 8,
- 181 Fitting Empirical Fundamental Diagrams of Road Traffic: A Comprehensive Review and Comparison of Models Using an Extensive Data Set. **2022**, 1-24 0
- 180 Research on Car-Following Model considering Driving Style. **2022**, 2022, 1-9 0
- 179 Impact of leading speed pattern on oscillation evolution in stochastic linear car-following models. **2022**, 127031 0
- 178 Markov chain Monte Carlo for a hyperbolic Bayesian inverse problem in traffic flow modeling. **2022**, 3, 0
- 177 Stability analysis of microscopic models for traffic flow with lane changing. **2022**,
- 176 Trajectory-Based Embedding for Random Coefficients of a Theory-Based Car-Following Model.
- 175 Modeling Continuous Traffic Flow with the Average Velocity Effect of Multiple Vehicles Ahead on Gyroidal Roads.
- 174 Uncertainty quantification in hierarchical vehicular flow models. **2022**, 15, 239
- 173 Sub-platooning via Agent Separation for Improved Traffic Flow Metrics in a Car-Following Model. **2022**, 71-85 0
- 172 Personalized highway pilot assist considering leading vehicle's lateral behaviors. 095440702210811 0
- 171 Bifurcation analysis of visual angle model with anticipated time and stabilizing driving behavior. 0
- 170 Modelling personalised car-following behaviour: a memory-based deep reinforcement learning approach. 1-29 1
- 169 Improving car-following model to capture unobserved driver heterogeneity and following distance features in fog condition. 1-24 1
- 168 Graph attention network for Car-Following Model under game between desired and real state.
- 167 Stability Analysis of Continuous Stochastic Linear Model. **2022**, 14, 3036

166	A Feedback Control Method with Connected Vehicles in a Lattice Hydrodynamic Model at Highway On-Ramps. 2022 , 2022, 1-11	
165	Longitudinal control for person-following robots.	0
164	Damping behavior analysis for connected automated vehicles with linear car following control. 2022 , 138, 103617	0
163	Driving strategy of connected and autonomous vehicles based on multiple preceding vehicles state estimation in mixed vehicular traffic. 2022 , 596, 127154	2
162	Cellular automaton model with the multi-anticipative effect to reproduce the empirical findings of Kerner's three-phase traffic theory. 2022 , 596, 127162	0
161	Modeling and stability analysis of traffic flow considering electronic throttle dynamics on a curved road with slope. 2022 , 597, 127225	0
160	Analysis of linear internal stability for mixed traffic flow of connected and automated vehicles considering multiple influencing factors. 2022 , 597, 127211	1
159	Dynamical analysis for a car-following model with delayed-feedback control of both velocity and acceleration differences. 2022 , 111, 106458	1
158	The impact of equilibrium optimal flux deviation on traffic dynamics in lattice hydrodynamic model under V2X environment.	
157	A Performance Evaluation of Vehicular Swarm Intelligence for Seamless Route Guidance using Opportunistic Networking. 2021 ,	
156	Multi-Anticipative Car-Following Model with Explicit Reaction-Time Delay. 2021 , 13, 1109-1115	0
155	A novel car-following model by sharing cooperative information transmission delayed effect under V2X environment and its additional energy consumption.	2
154	The Car-Following Model and Its Applications in the V2X Environment: A Historical Review. 2022 , 14, 14	3
153	Traffic models and traffic-jam transition in quantum (N+1)-level systems. 2022 , 5,	1
152	Analysis of feed-forward control effect on autonomous driving car-following system. 2022 , 127401	
151	Cooperative car-following control with electronic throttle and perceived headway errors on gyroidal roads. 2022 ,	0
150	Traffic Flow Modelling When Autonomous Vehicles Coexist with Human Driven Vehicles: Perspectives and Challenges. 2022 , 169-177	
149	Delayed-feedback control in multi-lane traffic system. 2022 , 127393	

148	Physical Model versus Artificial Neural Network (ANN) Model: A Comparative Study on Modeling Car-Following Behavior at Signalized Intersections. 2022 , 2022, 1-18	
147	Integrated-Hybrid Framework for Connected and Autonomous Vehicles Microscopic Traffic Flow Modelling. 2022 , 2022, 1-16	0
146	Influence of driving style on traffic flow fuel consumption and emissions based on the field data. 2022 , 127520	1
145	Analysis of rear-end crash potential and driver contributing factors based on car-following driving simulation.. 2022 , 1-6	1
144	Physics-augmented models to simulate commercial adaptive cruise control (ACC) systems. 2022 , 139, 103692	2
143	Gaussian Process-Based Personalized Adaptive Cruise Control. 2022 , 1-12	0
142	A rigorous multi-population multi-lane hybrid traffic model for dissipation of waves via autonomous vehicles.	0
141	Phase plane analysis of traffic flow based on driver's expected response model. 2022 , 45, 01058	
140	Equilibrium Point analysis of macro traffic flow model considering the influence of front and rear lights. 2022 , 45, 01057	
139	A Platoon-Based Hierarchical Merging Control for On-Ramp Vehicles Under Connected Environment. 2022 , 1-12	1
138	Empirical and experimental study on the growth pattern of traffic oscillations upstream of fixed bottleneck and model test. 2022 , 140, 103729	0
137	Uncovering the Spatiotemporal Patterns of Traffic Congestion from Large-Scale Trajectory Data: A Complex Network Approach.	
136	A New Driver Model Based on Driver Response. 2022 , 12, 5390	1
135	A Car-Following Model Considering Driver's Instantaneous Reaction Delay in Nonlane-Based Traffic Environments. 2022 , 148,	1
134	Transfer Learning Based Long Short-Term Memory Car-Following Model for Adaptive Cruise Control. 2022 , 1-15	0
133	Traffic Congestion Mechanism Under Land Redevelopment. 2022 , 33-113	
132	A Distributed Platoon Control Framework for Connected Automated Vehicles in an Urban Traffic Network. 2022 , 1-11	3
131	Density waves in an improved car-following model under intelligent transportation system environment.	

- 130 Controller Design for a Mixed Traffic System Travelling at Different Desired Speeds. **2022**, 100698 0
- 129 The Car-Following Model Based on the Drivers' Psychological Characteristics.
- 128 Stabilization Strategy of a Novel Car-Following Model with Time Delay and Memory Effect of the Driver. **2022**, 14, 7281 0
- 127 Research on the cooperative car-following behavior based on traffic information iteration.
- 126 A Survey on Mixed Traffic Flow Characteristics in Connected Vehicle Environments. **2022**, 14, 7629
- 125 A lattice hydrodynamic model integrating the velocity limit effect under V2X environment.
- 124 Study on Energy Dissipation and Fuel Consumption in Lattice Hydrodynamic Model under Traffic Control. **2022**, 2022, 1-12 0
- 123 Robust H-infinity control for connected vehicles in lattice hydrodynamic model at highway tunnel. **2022**, 127710 1
- 122 Collective Evolution Learning Model for Vision-Based Collective Motion with Collision Avoidance. 0
- 121 Assessing the Impacts of Autonomous Vehicles on Road Congestion Using Microsimulation. **2022**, 22, 4407
- 120 Velocity control in car-following behavior with autonomous vehicles using reinforcement learning. **2022**, 174, 106729 0
- 119 A bidirectional car-following model considering distance balance between adjacent vehicles. **2022**, 603, 127606 2
- 118 Cooperative Constrained Control of Autonomous Vehicles with Nonuniform Input Quantization. **2022**, 1-12 0
- 117 Personalized Car Following for Autonomous Driving with Inverse Reinforcement Learning. **2022**, 2
- 116 Modeling and Simulation of Traffic Congestion for Mixed Traffic Flow with Connected Automated Vehicles: A Cell Transmission Model Approach. **2022**, 2022, 1-20 2
- 115 Use of an Improved Car-Following Model to Explain the Influence of Traffic Composition on Saturation Headway at Signalized Intersections. **2022**, 2022, 1-20
- 114 A Realistic Cyclist Model for SUMO Based on the SimRa Dataset. **2022**,
- 113 A personalized and emotion based virtual simulation model for pedestrian-vehicle collision avoidance. **2022**, 33,

- 112 Constructing artificial traffic fluids by designing cruise controllers. **2022**, 167, 105317 ○
- 111 Uncovering the spatiotemporal patterns of traffic congestion from large-scale trajectory data: A complex network approach. **2022**, 604, 127871 ○
- 110 A Holistic Approach to the Energy-Efficient Smoothing of Traffic via Autonomous Vehicles. **2022**, 285-316
- 109 Limitations and Improvements of the Intelligent Driver Model (IDM). **2022**, 21, 1862-1892 3
- 108 Chaotic jam and phase transitions in a lattice model with density dependent passing. **2022**, 162, 112435 ○
- 107 Two-Velocity Difference Model with Rear View Effect of Unmanned Driving and Acceleration Information of the Preceding Vehicles. **2022**, 11, 4780-4792
- 106 Nonlinear Analysis of Stability and Safety of Optimal Velocity Model Vehicle Groups on Ring Roads. **2022**, 1-8
- 105 Enhancing SUMO simulator for simulation based testing and validation of autonomous vehicles. **2022**, ○
- 104 A dynamical traffic flow model for a cognitive drivers' sensitivity in Lagrangian scope.
- 103 Integrating traffic signal optimization with vehicle microscopic control to reduce energy consumption in a connected and automated vehicles environment. **2022**, 133694 2
- 102 Bifurcation analysis based on new macro two velocity difference model.
- 101 Empirical and simulation study on traffic oscillation characteristic using floating car data. **2022**, 605, 127973
- 100 Stability analysis of delayed-feedback control effect in the continuum traffic flow of autonomous vehicles without V2I communication. **2022**, 605, 127975 ○
- 99 Stability Analysis and Prediction of Traffic Flow of Trucks at Road Intersections Based on Heterogenous Optimal Velocity and Artificial Neural Network Model. **2022**, 5, 1092-1114 ○
- 98 Stability analysis of stochastic second-order macroscopic continuum models and numerical simulations. **2022**, 164, 193-209 ○
- 97 Analyses of lattice hydrodynamic area occupancy model for heterogeneous disorder traffic. **2022**, 607, 128184 ○
- 96 A Novel Model Predictive Control Based Co-Optimization Strategy for Velocity Planning and Energy Management of Intelligent PHEVs. **2022**, 1-15 ○
- 95 The Dynamic Evolution Integrating the Flux Limit Effect in Lattice Hydrodynamic Model for Two-Lane Highway. ○

- 94 The Non-Lane-Discipline Continuum Model with Electronic Throttle Dynamics. ○
- 93 Study on Particulate Emission in Two-Lane Mixed Traffic Flow. ○
- 92 An Integrated Model for Autonomous Speed and Lane Change Decision-Making Based on Deep Reinforcement Learning. **2022**, 1-13 1
- 91 Platoon Formation in a Mixed Traffic Environment: A Model-Agnostic Optimal Control Approach. **2022**, 1 1
- 90 A Car-Following Model considering the Effect of Following Vehicles under the Framework of Physics-Informed Deep Learning. **2022**, 2022, 1-12 ○
- 89 A comparison study on the growth pattern of traffic oscillations in car-following experiments. 1-19 ○
- 88 Modeling the heterogeneous traffic flow considering mean expected velocity field and effect of two-lane communication under connected environment. **2022**, 128202 ○
- 87 Environmental Analyses of Delayed-Feedback Control Effects in Continuum-Traffic Flow of Autonomous Vehicles. **2022**, 14, 11292 ○
- 86 A Fuzzy Full Velocity Difference Model Based on Driver's Perception Characteristics. **2022**, 2022, 1-10 ○
- 85 A stochastic two-dimensional intelligent driver car-following model with vehicular dynamics. ○
- 84 A Car-Following Model for Mixed Traffic Flows in Intelligent Connected Vehicle Environment Considering Driver Response Characteristics. **2022**, 14, 11010 ○
- 83 Effect of front two adjacent vehicles' velocity information on car-following model construction and stability analysis. **2022**, 607, 128196 ○
- 82 Safety-Aware and Data-Driven Predictive Control for Connected Automated Vehicles at a Mixed Traffic Signalized Intersection?. **2022**, 55, 51-56 ○
- 81 Numerical Simulation of Car Following Model Based on Multi-Agent System. **2022**, 11, 7143-7150 ○
- 80 Eco-Driving Behavior of Automated Vehicle. **2023**, 69-80 ○
- 79 Robustifying Car-Following Models with Explicit Reaction Times. **2022**, ○
- 78 A New Car Following Model Considering the Multi-headway Variation Forecast Effect. **2023**, 545-561 ○
- 77 Stability and String Stability of Car-Following Models with Reaction-Time Delay. **2022**, 82, 1661-1679 ○

- 76 A dynamical traffic flow model for a cognitive drivers' sensitivity in Lagrangian scope. **2022**, 12, ○
- 75 A panel data-based discrete-continuous modelling framework to analyze longitudinal driver behavior in homogeneous and heterogeneous disordered traffic conditions. 1-14 ○
- 74 Bifurcation analysis of a new stochastic traffic flow model. **2022**, ○
- 73 Nonlinear effects of saturation in the car-following model. ○
- 72 Stochastic factors and string stability of traffic flow: Analytical investigation and numerical study based on car-following models. **2022**, 165, 96-122 ○
- 71 Trade-off between safety, mobility and stability in automated vehicle following control: An analytical method. **2022**, 166, 1-18 1
- 70 A stochastic model for stop-and-go phenomenon in traffic oscillation: On the prospective of macro and micro traffic flow. **2023**, 440, 127637 ○
- 69 On the driver's stochastic nature in car-following behavior: Modeling and stabilizing based on the V2I environment. **2022**, 31, 342-366 ○
- 68 Modeling and simulation of traffic flow based on memory effect and driver characteristics. **2022**, ○
- 67 Research on the Impacts of Vehicle Type on Car-Following Behavior, Fuel Consumption and Exhaust Emission in the V2X Environment. **2022**, 14, 15231 ○
- 66 A generalized (2+1)-dimensional Hirota bilinear equation: integrability, solitons and invariant solutions. ○
- 65 Traffic Signal Optimization to Improve Sustainability: A Literature Review. **2022**, 15, 8452 1
- 64 Statistical physics of the development of Kerner's synchronized-to-free-flow instability at a moving bottleneck in vehicular traffic. **2022**, 106, ○
- 63 Global stability and bifurcation of macroscopic traffic flow models for upslope and downslope. ○
- 62 A general approach to smoothing nonlinear mixed traffic via control of autonomous vehicles. **2023**, 146, 103967 ○
- 61 A bi-directional visual angle car-following model considering collision sensitivity. **2023**, 609, 128326 ○
- 60 Stochastic dynamics of a discrete-time car-following model and its time-delayed feedback control. **2023**, 610, 128407 ○
- 59 Improved Car-Following Model for Connected Vehicles Considering Backward-Looking Effect and Motion Information of Multiple Vehicles. **2023**, 149, ○

58	Study on Vehicle Fuel Consumption and Exhaust Emissions Based on a New Viscous Macroscopic Traffic Flow Model. 2023 , 149,	1
57	String stability in traffic flows. 2023 , 443, 127775	0
56	Modeling and Simulation of Self-Stabilizing Control Traffic Flow Based on Data Compensation. 2022 , 12, 2561-2572	0
55	Dynamic Target Following Control for Autonomous Vehicles with Deep Reinforcement Learning. 2022 ,	0
54	Study on traffic flow mixed with autonomous vehicles and human-driven vehicles. 2022 ,	0
53	A viscous continuum traffic flow model based on the cooperative car-following behaviour of connected and autonomous vehicles.	0
52	A UAV-Swarm-Communication Model Using a Machine-Learning Approach for Search-and-Rescue Applications. 2022 , 6, 372	3
51	Modèle de comportement latéral des véhicules légers fondé sur des forces. 2022 , 3, 451-476	0
50	Near-Collision Dynamics in a Noisy Car-Following Model. 2022 , 82, 2080-2110	0
49	A novel cooperative driving model for platooning of connected and automated vehicles.	0
48	Nonlinear Analysis of the Car-Following Model considering Delay under the V2X Environment. 2022 , 2022, 1-12	0
47	A Microscopic Traffic Flow Model Characterization for Weather Conditions. 2022 , 12, 12981	0
46	Impact Evaluation of Cyberattacks on Connected and Automated Vehicles in Mixed Traffic Flow and Its Resilient and Robust Control Strategy. 2023 , 23, 74	0
45	Modeling and Analysis of Car-Following for Intelligent Connected Vehicles Considering Expected Speed in Helical Ramps. 2022 , 14, 16732	0
44	On the emergence of traffic jams in a stochastic traffic flow driven by additive and multiplicative white Gaussian noise processes. 2022 , 2022, 123401	0
43	The impact of the density delay on the traffic evolution process in lattice hydrodynamic model under lane change on two lanes.	0
42	Velocity-based model for pedestrian dynamics considering direction preferences. 2023 , 128444	0
41	The influence of the optimal velocity deviation on the traffic evolution process under lane change in two-lane lattice model.	0

- 40 Modeling and stability analysis of car-following behavior for connected vehicles by considering driver characteristic. 095440702211454 ○
- 39 Energy-Efficient Connected Cruise Control With Lean Penetration of Connected Vehicles. **2023**, 1-13 ○
- 38 Proximal Policy Optimization-Based Driving Control Strategy of Connected Cruise Vehicle Platoons to Improve Traffic Efficiency and Safety. 036119812211442 ○
- 37 Traffic congestion-aware graph-based vehicle rerouting framework from aerial imagery. **2023**, 119, 105769 ○
- 36 Performance Analysis of Velocity Perturbation Control in Mixed Platoons with Connected Autonomous and Human-Driven Vehicles. **2022**, ○
- 35 Scalable Model-based Policy Optimization for Decentralized Networked Systems. **2022**, 1
- 34 A Gain-Scheduled Robust H_∞Control for a Mixed Traffic System Travelling at Different Desired Speeds in the Presence of Delay*. **2022**, ○
- 33 New frontiers of freeway traffic control and estimation. **2022**, ○
- 32 The NHRS scheme for the two models of traffic flow. **2023**, 42, ○
- 31 Investigation of Traffic Dynamics Considering Driver's Characteristics and Downstream Traffic Conditions. **2023**, 135-144 ○
- 30 Consistency Analysis of Drivers' Car-Following Behaviors. **2023**, 149, ○
- 29 Autonomous Vehicle's Impact on Traffic: Empirical Evidence From Waymo Open Dataset and Implications From Modelling. **2023**, 1-14 ○
- 28 Traveling solutions for a multi-anticipative car-following traffic model. **2023**, 18, 7 ○
- 27 Modelling and simulation of (connected) autonomous vehicles longitudinal driving behavior: A state-of-the-art. ○
- 26 Accelerated kinetic Monte Carlo methods for general nonlocal traffic flow models. **2023**, 446, 133657 ○
- 25 Data-driven control of agent-based models: An Equation/Variable-free machine learning approach. **2023**, 478, 111953 ○
- 24 Bifurcation analysis and control strategy for a car-following model considering jerk behavior. **2023**, 618, 128692 ○
- 23 FitFun: A modelling framework for successfully capturing the functional form and noise of observed traffic flow-density-speed relationships. **2023**, 151, 104068 ○

- 22 Modeling heterogeneity in an open percolation backbone fractal traffic network. **2023**, 619, 128721 ○
- 21 Calibrating Car-Following Models on Urban Streets Using Naturalistic Driving Data. **2023**, 149, ○
- 20 Unified framework for over-damped string stable adaptive cruise control systems. **2023**, 148, 104039 ○
- 19 Analyses of a two-lane lattice hydrodynamic model incorporating predictive effect and self-delayed flux integral. **2023**, 37, ○
- 18 A new car-following model considering driver's desired visual angle on sharp curves. **2023**, 615, 128551 ○
- 17 Bilateral Adaptation of Longitudinal Control of Automated Vehicles and Human Drivers. **2023**, 1-9 ○
- 16 Multiscale Properties of Traffic Flow: The Macroscopic Impact of Traffic Waves. **2023**, ○
- 15 Stability Analysis of Mixed Traffic Flow Considering Personal Space under the Connected and Automated Environment. **2023**, 13, 3231 ○
- 14 On the well-posedness of the "Bando-follow the leader" car following model and a time-delayed version. **2023**, 18, 775-798 ○
- 13 Stability Evolution of Car-Following Models Considering Asymmetric Driving Behavior. 036119812311565 ○
- 12 Non-lane-discipline-based continuum model considering the effect of lateral gaps and electronic throttle dynamics. **2023**, 83, 253-269 ○
- 11 Cruise Controllers for Lane-Free Ring-Roads based on Control Lyapunov Functions. **2023**, ○
- 10 The Double Lanes Cell Transmission Model of Mixed Traffic Flow in Urban Intelligent Network. **2023**, 16, 3108 ○
- 9 Study on a Vehicle-Type-Based Car-Following Model using the Long Short-Term Memory Method. ○
- 8 Modeling Autonomous Vehicles' Altruistic Behavior to Human-Driven Vehicles in the Car following Events and Impact Analysis. **2023**, 2023, 1-14 ○
- 7 Learning naturalistic driving environment with statistical realism. **2023**, 14, ○
- 6 Systematic Review on Classical Car-Following Models. **2022**, ○
- 5 Longitudinal car-following control strategy integrating predictive collision risk. **2023**, ○

- 4 Real-time safest route identification: Examining the trade-off between safest and fastest routes. **2023**, 100277 ○
- 3 Achieving realistic cyclist behavior in SUMO using the SimRa dataset. **2023**, ○
- 2 Modelling of two-lane car-following behaviour considering driver's visual effect. **2023**, 11, 1311-1336 ○
- 1 Integrating cyber-attacks on the continuous delay effect in coupled map car-following model under connected vehicles environment. ○