

Arne Kesting

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

4,344
citations

331670

21
h-index

552781

26
g-index

36
all docs

36
docs citations

36
times ranked

2185
citing authors

#	ARTICLE	IF	CITATIONS
1	General Lane-Changing Model MOBIL for Car-Following Models. Transportation Research Record, 2007, 1999, 86-94.	1.9	802
2	Enhanced intelligent driver model to access the impact of driving strategies on traffic capacity. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4585-4605.	3.4	600
3	Adaptive cruise control design for active congestion avoidance. Transportation Research Part C: Emerging Technologies, 2008, 16, 668-683.	7.6	470
4	Delays, inaccuracies and anticipation in microscopic traffic models. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 71-88.	2.6	425
5	Calibrating Car-Following Models by Using Trajectory Data. Transportation Research Record, 2008, 2088, 148-156.	1.9	339
6	Estimating Acceleration and Lane-Changing Dynamics from Next Generation Simulation Trajectory Data. Transportation Research Record, 2008, 2088, 90-101.	1.9	311
7	Three-phase traffic theory and two-phase models with a fundamental diagram in the light of empirical stylized facts. Transportation Research Part B: Methodological, 2010, 44, 983-1000.	5.9	159
8	How Reaction Time, Update Time, and Adaptation Time Influence the Stability of Traffic Flow. Computer-Aided Civil and Infrastructure Engineering, 2008, 23, 125-137.	9.8	145
9	Understanding widely scattered traffic flows, the capacity drop, and platoons as effects of variance-driven time gaps. Physical Review E, 2006, 74, 016123.	2.1	138
10	Reconstructing the Traffic State by Fusion of Heterogeneous Data. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 408-419.	9.8	110
11	Microscopic Calibration and Validation of Car-Following Models – A Systematic Approach. Procedia, Social and Behavioral Sciences, 2013, 80, 922-939.	0.5	106
12	Extending Adaptive Cruise Control to Adaptive Driving Strategies. Transportation Research Record, 2007, 2000, 16-24.	1.9	97
13	Connectivity Statistics of Store-and-Forward Intervehicle Communication. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 172-181.	8.0	95
14	The Intelligent Driver Model with Stochasticity -New Insights Into Traffic Flow Oscillations. Transportation Research Procedia, 2017, 23, 174-187.	1.5	75
15	Validation of traffic flow models with respect to the spatiotemporal evolution of congested traffic patterns. Transportation Research Part C: Emerging Technologies, 2012, 21, 31-41.	7.6	69
16	Evidence of convective instability in congested traffic flow: A systematic empirical and theoretical investigation. Transportation Research Part B: Methodological, 2011, 45, 1362-1377.	5.9	59
17	Influence of Reaction Times and Anticipation on Stability of Vehicular Traffic Flow. Transportation Research Record, 2007, 1999, 23-29.	1.9	54
18	The Intelligent Driver Model with stochasticity – New insights into traffic flow oscillations. Transportation Research Part B: Methodological, 2018, 117, 613-623.	5.9	51

#	ARTICLE	IF	CITATIONS
19	Coupled vehicle and information flows: Message transport on a dynamic vehicle network. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 73-81.	2.6	43
20	Jam-Avoiding Adaptive Cruise Control (ACC) and its Impact on Traffic Dynamics. , 2007, , 633-643.		42
21	Understanding interarrival and interdeparture time statistics from interactions in queuing systems. Physica A: Statistical Mechanics and Its Applications, 2006, 363, 62-72.	2.6	38
22	Autonomous Detection and Anticipation of Jam Fronts from Messages Propagated by Intervehicle Communication. Transportation Research Record, 2007, 1999, 3-12.	1.9	35
23	Modeling Lane-Changing Decisions with MOBIL. , 2009, , 211-221.		22
24	Evidence of Convective Instability in Congested Traffic Flow: A Systematic Empirical and Theoretical Investigation. Procedia, Social and Behavioral Sciences, 2011, 17, 683-701.	0.5	14
25	Longitudinal hopping in intervehicle communication: Theory and simulations on modeled and empirical trajectory data. Physical Review E, 2008, 78, 036102.	2.1	12
26	INFLUENCE OF REACTION TIMES AND ANTICIPATION ON THE STABILITY OF VEHICULAR TRAFFIC FLOW. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 205-210.	0.4	10
27	Automatic and efficient driving strategies while approaching a traffic light. , 2014, , .		10
28	Calibration of Car-Following Models Using Floating Car Data. , 2009, , 117-127.		8
29	Decentralized Approaches to Adaptive Traffic Control. Understanding Complex Systems, 2008, , 189-199.	0.6	3
30	Theoretical vs. Empirical Classification and Prediction of Congested Traffic States. Lecture Notes in Mathematics, 2013, , 303-333.	0.2	1
31	Modelling and Simulating Several Time-Delay Mechanisms in Human and Automated Driving. , 2009, , 413-419.		1
32	Trajektorien und Floating-Car-Daten. Springer-Lehrbuch, 2010, , 7-11.	0.0	0
33	Modellgestützte Optimierung des Verkehrsflusses. Springer-Lehrbuch, 2010, , 289-301.	0.0	0
34	Fahrstreifenwechsel und andere diskrete Entscheidungen. Springer-Lehrbuch, 2010, , 197-209.	0.0	0
35	Stautenstehung und Stauausbreitung. Springer-Lehrbuch, 2010, , 257-266.	0.0	0