

# Andreas Hegyi

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,959  
citations

471371

17  
h-index

254106

43  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1683  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model predictive control for optimal coordination of ramp metering and variable speed limits. <i>Transportation Research Part C: Emerging Technologies</i> , 2005, 13, 185-209.	3.9	470
2	State-of-the-art crowd motion simulation models. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 37, 193-209.	3.9	369
3	A review on travel behaviour modelling in dynamic traffic simulation models for evacuations. <i>Transportation</i> , 2012, 39, 97-123.	2.1	226
4	Heterogeneity in car-following behavior: Theory and empirics. <i>Transportation Research Part C: Emerging Technologies</i> , 2011, 19, 182-195.	3.9	158
5	Delay-compensating strategy to enhance string stability of adaptive cruise controlled vehicles. <i>Transportmetrica B</i> , 2018, 6, 211-229.	1.4	58
6	Calibration of microscopic traffic-flow models using multiple data sources. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4497-4517.	1.6	55
7	Driving behaviour at motorway ramps and weaving segments based on empirical trajectory data. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 92, 426-441.	3.9	49
8	What are the determinants of the willingness to share rides in pooled on-demand services?. <i>Transportation</i> , 2021, 48, 1733-1765.	2.1	49
9	Review of maritime traffic models from vessel behavior modeling perspective. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 105, 323-345.	3.9	39
10	Chapter 11 ITS and Traffic Management. <i>Handbooks in Operations Research and Management Science</i> , 2007, 14, 715-774.	0.6	38
11	Evaluating a data-driven approach for choice set identification using GPS bicycle route choice data from Amsterdam. <i>Travel Behaviour &amp; Society</i> , 2018, 13, 105-117.	2.4	38
12	Access denied? Digital inequality in transport services. <i>Transport Reviews</i> , 2022, 42, 32-57.	4.7	32
13	Modelling travellers' heterogeneous route choice behaviour as prospect maximizers. <i>Journal of Choice Modelling</i> , 2013, 6, 17-33.	1.2	30
14	Modelling decisions of control transitions and target speed regulations in full-range Adaptive Cruise Control based on Risk Allostasis Theory. <i>Transportation Research Part B: Methodological</i> , 2018, 117, 318-341.	2.8	27
15	Macroscopic traffic state estimation using relative flows from stationary and moving observers. <i>Transportation Research Part B: Methodological</i> , 2018, 114, 281-299.	2.8	27
16	A method to optimize evacuation instructions. <i>OR Spectrum</i> , 2011, 33, 595-627.	2.1	24
17	A macroscopic flow model for mixed bicycle-car traffic. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 340-355.	1.3	20
18	A geometric Brownian motion car-following model: towards a better understanding of capacity drop. <i>Transportmetrica B</i> , 2019, 7, 915-927.	1.4	19

#	ARTICLE	IF	CITATIONS
19	How do drivers negotiate horizontal ramp curves in system interchanges in the Netherlands?. <i>Safety Science</i> , 2019, 119, 58-69.	2.6	15
20	Adaptations in driver behaviour characteristics during control transitions from full-range Adaptive Cruise Control to manual driving: an on-road study. <i>Transportmetrica A: Transport Science</i> , 2020, 16, 776-806.	1.3	15
21	Optical flow based vehicle tracking strengthened by statistical decisions. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2006, 61, 159-169.	4.9	14
22	Static Traffic Assignment with Queuing: model properties and applications. <i>Transportmetrica A: Transport Science</i> , 2019, 15, 179-214.	1.3	14
23	Lane Change Behavior on Freeways: An Online Survey Using Video Clips. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-11.	0.9	13
24	Improvement of Network Performance by In-Vehicle Routing Using Floating Car Data. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-16.	0.9	11
25	Design analysis of a decentralized equilibrium-routing strategy for intelligent vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 103, 308-327.	3.9	11
26	State-of-the-art of port simulation models for risk and capacity assessment based on the vessel navigational behaviour through the nautical infrastructure. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2018, 5, 335-347.	2.0	10
27	Multiobjective Calibration Framework for Pedestrian Simulation Models: A study on the Effect of Movement Base Cases, Metrics, and Density Levels. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-18.	0.9	10
28	An optimal control approach of integrating traffic signals and cooperative vehicle trajectories at intersections. <i>Transportmetrica B</i> , 2022, 10, 971-987.	1.4	10
29	Blocking roads to increase the evacuation efficiency. <i>Journal of Advanced Transportation</i> , 2012, 46, 282-289.	0.9	9
30	Macroscopic traffic flow changes around ramps. <i>Transportmetrica A: Transport Science</i> , 2018, 14, 598-614.	1.3	9
31	A Comparison of Freeway Work Zone Capacity Prediction Models. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 16, 419-429.	0.5	7
32	Vehicle Class-Specific Route Guidance of Freeway Traffic by Model-Predictive Control. <i>Transportation Research Record</i> , 2012, 2324, 53-62.	1.0	7
33	Macroscopic Traffic State Estimation: Understanding Traffic Sensing Data-Based Estimation Errors. <i>Journal of Advanced Transportation</i> , 2017, 2017, 1-11.	0.9	7
34	Two-Dimensional Approximate Godunov Scheme and What It Means For Continuum Pedestrian Flow Models. <i>Transportation Science</i> , 2018, 52, 547-563.	2.6	7
35	Fleet size determination for a mixed private and pooled on-demand system with elastic demand. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 897-920.	1.3	7
36	On the scalability of private and pooled on-demand services for urban mobility in Amsterdam. <i>Transportation Planning and Technology</i> , 2022, 45, 2-18.	0.9	6

#	ARTICLE	IF	CITATIONS
37	Monitoring the Number of Pedestrians in an Area: The Applicability of Counting Systems for Density State Estimation. Journal of Advanced Transportation, 2018, 2018, 1-14.	0.9	5
38	Multi-class traffic flow on a partially space-shared road. Transportmetrica B, 2019, 7, 1505-1520.	1.4	5
39	Preferences toward Bus Alternatives in Rural Areas of the Netherlands: A Stated Choice Experiment. Transportation Research Record, 2021, 2675, 524-533.	1.0	5
40	Perception of overlap in multi-modal urban transit route choice. Transportmetrica A: Transport Science, 2023, 19, .	1.3	5
41	Trip chaining of bicycle and car commuters: an empirical analysis of detours to secondary activities. Transportmetrica A: Transport Science, 2022, 18, 855-878.	1.3	4
42	Car-Following Described by Blending Data-Driven and Analytical Models: A Gaussian Process Regression Approach. Transportation Research Record, 2021, 2675, 1202-1213.	1.0	4
43	Empirical analysis of cycling distances in three of Europe's most bicycle-friendly regions within an accessibility framework. International Journal of Sustainable Transportation, 2023, 17, 775-789.	2.1	4
44	Robust optimization of evacuation instructions, applied to capacity, hazard pattern, demand, and compliance uncertainty. , 2011, , .		3
45	Deviation of Pedestrian Path due to the Presence of Building Entrances. Journal of Advanced Transportation, 2021, 2021, 1-12.	0.9	3
46	Free Flow Capacity and Queue Discharge Rate: Long-Term Changes. Transportation Research Record, 2022, 2676, 483-494.	1.0	3
47	Variable analysis for freeway work zone capacity prediction. , 2010, , .		2
48	A method to estimate the capacity of an intersection of waterways in ports. Transportmetrica A: Transport Science, 2019, 15, 1848-1866.	1.3	2
49	The Influence of Jam Density and Merging Cyclists on the Queue Discharge Rate. Journal of Advanced Transportation, 2020, 2020, 1-10.	0.9	2
50	Ramp Metering with Microscopic Gap Detection Algorithm Design and Empirical Acceleration Verification. Transportation Research Record, 2022, 2676, 91-104.	1.0	2
51	Special Issue on Applied Mathematics for Traffic and Transport Systems. Transportmetrica A: Transport Science, 2021, 17, 233-234.	1.3	0