Peter Vortisch

List of Publications by Year
in descending order

63	938	758635 12	525886 27
papers	citations	h-index	g-index

63	63	63	793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microscopic Traffic Flow Simulator VISSIM. Profiles in Operations Research, 2010, , 63-93.	0.3	258
2	Implementation of free-floating and station-based carsharing in an agent-based travel demand model. Travel Behaviour & Society, 2018, 12, 151-158.	2.4	62
3	mobiTopp â€“ A Modular Agent-based Travel Demand Modelling Framework. Procedia Computer Science, 2013, 19, 854-859.	1.2	51
4	Potentials of Autonomous Vehicles in a Changing Private Transportation System â€“ a Case Study in the Stuttgart Region. Transportation Research Procedia, 2017, 26, 13-21.	0.8	51
5	Enabling efficient and accurate large-scale simulations of VANETs for vehicular traffic management. , 2007, , .		50
6	QUICKEST PATHS IN SIMULATIONS OF PEDESTRIANS. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 733-759.	0.9	46
7	Microsimulation Calibration Using Speed-Flow Relationships. Transportation Research Record, 2008, 2088, 1-9.	1.0	41
8	Modeling Week Activity Schedules for Travel Demand Models. Transportation Research Record, 2017, 2666, 69-77.	1.0	37
9	Calibrating VISSIM for the German Highway Capacity Manual. Transportation Research Record, 2015, 2483, 74-79.	1.0	23
10	Assessing car dependence: Development of a comprehensive survey approach based on the concept of a travel skeleton. Transportation Research Procedia, 2018, 32, 607-616.	0.8	21
11	Modelling the weekly electricity demand caused by electric cars. Future Generation Computer Systems, 2016, 64, 140-150.	4.9	17
12	Capturing the Usage of the German Car Fleet for a One Year Period to Evaluate the Suitability of Battery Electric Vehicles â€“ A Model based Approach. Transportation Research Procedia, 2014, 1, 133-141.	0.8	15
13	Calibrating Vissim to Analyze Delay at Signalized Intersections. Transportation Research Record, 2017, 2615, 73-81.	1.0	15
14	Creating an integrated agent-based travel demand model by combining mobiTopp and MATSim. Procedia Computer Science, 2019, 151, 776-781.	1.2	15
15	Balancing Innovation and Continuity â€“ Experiences with Survey Design Adaptations of the German Mobility Panel. Transportation Research Procedia, 2015, 11, 43-59.	0.8	13
16	Hybrid Modeling Approach of Car Uses in Germany on Basis of Empirical Data with Different Granularities. Transportation Research Record, 2014, 2412, 67-74.	1.0	12
17	Spatial Factorâ€”Using a Random Forest Classification Model to Measure an Internationally Comparable Urbanity Index. Urban Science, 2020, 4, 36.	1.1	11
18	Assessment of Level of Service on Freeways by Microscopic Traffic Simulation. Transportation Research Record, 2014, 2461, 41-49.	1.0	10

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19	Large-Scale Application of a Combined Destination and Mode Choice Model Estimated with Mixed Stated and Revealed Preference Data. Transportation Research Record, 2017, 2669, 31-40.	1.0	10
20	Long-distance travel in tension with everyday mobility of urbanites â€“ A classification of leisure travellers. Travel Behaviour & Society, 2022, 26, 290-300.	2.4	10
21	Modeling Car Passenger Trips in mobiTopp. Procedia Computer Science, 2015, 52, 938-943.	1.2	9
22	Are Activity Patterns Stable or Variable? Analysis of Three-Year Panel Data. Transportation Research Record, 2018, 2672, 46-56.	1.0	9
23	Electric Factorâ€”A Comparison of Car Usage Profiles of Electric and Conventional Vehicles by a Probabilistic Approach. World Electric Vehicle Journal, 2020, 11, 36.	1.6	9
24	Integrating Urban Last-Mile Package Deliveries into an Agent-Based Travel Demand Model. Procedia Computer Science, 2021, 184, 178-185.	1.2	9
25	Household Travel Survey of Intermodal Trips â€“ Approach, Challenges and Comparison. Transportation Research Procedia, 2015, 11, 330-339.	0.8	8
26	Changes in Variability and Flexibility of Individual Travel in Germany. Transportation Research Record, 2015, 2496, 10-19.	1.0	8
27	Parameters Influencing Lane Flow Distribution on Multilane Freeways in PTV Vissim. Procedia Computer Science, 2021, 184, 453-460.	1.2	8
28	On New Measures for Detection of Data Quality Risks in Mobility Panel Surveys. Transportation Research Record, 2013, 2354, 19-28.	1.0	7
29	Effects of COVID-19 on Telework and Commuting Behavior: Evidence from 3â€‰Years of Panel Data. Transportation Research Record, 2023, 2677, 478-493.	1.0	7
30	Self-Regulating Demand and Supply Equilibrium in Joint Simulation of Travel Demand and a Ride-Pooling Service. Transportation Research Record, 2021, 2675, 226-239.	1.0	6
31	Determining service provider and transport system related effects of ridesourcing services by simulation within the travel demand model mobiTopp. European Transport Research Review, 2021, 13, .	2.3	6
32	A German Approach to Freeway Facility Evaluation. Transportation Research Record, 2015, 2483, 66-73.	1.0	5
33	Modelling the Weekly Electricity Demand Caused by Electric Cars. Procedia Computer Science, 2015, 52, 444-451.	1.2	5
34	Mixed mode survey design and panel repetition â€“ findings from the German Mobility Panel. Transportation Research Procedia, 2018, 32, 319-328.	0.8	5
35	Analyzing OpenStreetMap as data source for travel demand models A case study in Karlsruhe. Transportation Research Procedia, 2019, 41, 104-112.	0.8	5
36	Assessing the effects of a mixed-mode design in a longitudinal household travel survey. Transportation, 2019, 46, 1737-1753.	2.1	5

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37	Insights into shopping travel behavior: latent classes in relation to attitudes towards shopping. European Transport Research Review, 2021, 13, .	2.3	5
38	Integrating public transport into mobiTopp. Procedia Computer Science, 2017, 109, 855-860.	1.2	4
39	Measuring Stability of Mode Choice Behavior. Transportation Research Record, 2017, 2664, 1-10.	1.0	4
40	Microscopic Demand Modeling of Urban and Regional Commercial Transport. Procedia Computer Science, 2018, 130, 667-674.	1.2	4
41	Integrating Neighbours into an Agent-Based Travel Demand Model to Analyse Success Rates of Parcel Deliveries. Procedia Computer Science, 2022, 201, 181-188.	1.2	4
42	A German Passenger Car and Heavy Vehicle Stock Model: Towards an Autonomous Vehicle Fleet. Transportation Research Record, 2018, 2672, 55-63.	1.0	3
43	The role of attitudes in on-demand mobility usage - an example from Shanghai. , 2020, , 103-124.		3
44	Understanding social processes of shopping destination choice - An approach to model stability and variability. Transportation Research Interdisciplinary Perspectives, 2020, 7, 100183.	1.6	3
45	Modeling intermodal travel behavior in an agent-based travel demand model. Procedia Computer Science, 2021, 184, 202-209.	1.2	3
46	Exploring the viability of walk-sharing in outdoor urban spaces. Computers, Environment and Urban Systems, 2021, 88, 101635.	3.3	3
47	Incorporating Stability of Mode Choice into an Agent-Based Travel Demand Model. Communications in Computer and Information Science, 2017, , 28-39.	0.4	3
48	A Rationale for Enhancing the German Highway Capacity Manual to Incorporate Oversaturated Freeway Facility Analysis. Transportation Research Procedia, 2016, 15, 426-437.	0.8	2
49	Premium factor â€“ Analyzing usage of premium cars compared to conventional cars. Research in Transportation Business and Management, 2019, 33, 100456.	1.6	2
50	GIS-based modelling of fast-charging infrastructure at city-regional level. Transportation Research Procedia, 2019, 41, 146-149.	0.8	2
51	Integrating public transport into mobiTopp. Future Generation Computer Systems, 2020, 107, 1089-1096.	4.9	2
52	Image-based activity pattern segmentation using longitudinal data of the German Mobility Panel. Transportation Research Interdisciplinary Perspectives, 2020, 8, 100264.	1.6	2
53	Representation of Work-Related Trip Patterns in Household and Commercial Travel Surveys. Transportation Research Record, 2022, 2676, 59-73.	1.0	2
54	Who Uses Freeways and Who Pays for Them?: Model-Based Analysis of Distribution Effects of Toll Tariff Systems in Germany. Transportation Research Record, 2016, 2563, 88-95.	1.0	1

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55	Transport demand models in a changing world â€“Individuals between econometric rationalities and social network obligations. Transportation Research Procedia, 2019, 41, 333-341.	0.8	1
56	Combining Macro- and Microscopic Approaches to Model Commercial Transport Demand in an Urban Area. Transportation Research Procedia, 2020, 48, 574-589.	0.8	1
57	Comparison of Response Bias in an Intercultural Context â€“ Evaluation of Psychological Items in Travel Behavior Research. Transportation Research Procedia, 2020, 48, 2891-2905.	0.8	1
58	Classifying Car Owners in Latent Psychographic Profiles. Transportation Research Record, 2021, 2675, 142-152.	1.0	1
59	Exploring the role of individualsâ€™ attitudes in the use of on-demand mobility services for commuting â€“ A case study in eight Chinese cities. International Journal of Transportation Science and Technology, 2022, 11, 229-242.	2.0	1
60	Mode Choice Behavior on Access Trips to Carsharing Vehicles. , 2020, , .		1
61	The effects of spatial characteristics on car ownership and its impacts on agent-based travel demand models. Procedia Computer Science, 2022, 201, 296-304.	1.2	1
62	Vom Stau zur Verkehrsinformation â€“ Datenfusion als Teil eines Gesamtprozesses (From Jams on the) Tj ETQq0 0 0 rgBT /Overlock 10 T Automatisierungstechnik, 2005, 53, 306-313.	0.4	0
63	Assessment of fast-charging station locationsâ€”an integrated model based approach. , 2020, , 595-611.		0