

# Luk Knapen

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

796  
citations

623188

14  
h-index

552369

26  
g-index

72  
all docs

72  
docs citations

72  
times ranked

861  
citing authors

#	ARTICLE	IF	CITATIONS
1	Peer to Peer Energy Trading with Electric Vehicles. IEEE Intelligent Transportation Systems Magazine, 2016, 8, 33-44.	2.6	170
2	Multi-agent simulation of individual mobility behavior in carpooling. Transportation Research Part C: Emerging Technologies, 2014, 45, 83-98.	3.9	80
3	Determining Electric Vehicle Charging Point Locations Considering Drivers'™ Daily Activities. Procedia Computer Science, 2014, 32, 647-654.	1.2	37
4	Activity-Based Modeling to Predict Spatial and Temporal Power Demand of Electric Vehicles in Flanders, Belgium. Transportation Research Record, 2012, 2287, 146-154.	1.0	30
5	A Conceptual Design of an Agent-based Interaction Model for the Carpooling Application. Procedia Computer Science, 2012, 10, 801-807.	1.2	27
6	Activity based models for countrywide electric vehicle power demand calculation. , 2011, , .		26
7	An Agent-Based Model to Evaluate Carpooling at Large Manufacturing Plants. Procedia Computer Science, 2012, 10, 1221-1227.	1.2	26
8	Theory and Practice in Large Carpooling Problems. Procedia Computer Science, 2014, 32, 339-347.	1.2	25
9	A coordinated Framework for Optimized Charging of EV Fleet in Smart Grid. Procedia Computer Science, 2016, 94, 332-339.	1.2	24
10	Exploiting graph-theoretic tools for matching in carpooling applications. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 393-407.	3.3	21
11	Decentralized coordinated charging of electric vehicles considering locational and temporal flexibility. International Transactions on Electrical Energy Systems, 2015, 25, 2562-2575.	1.2	21
12	Likelihood-based offline map matching of GPS recordings using global trace information. Transportation Research Part C: Emerging Technologies, 2018, 93, 13-35.	3.9	21
13	Analysis of the Co-routing Problem in Agent-based Carpooling Simulation. Procedia Computer Science, 2012, 10, 821-826.	1.2	19
14	Estimating Scalability Issues While Finding an Optimal Assignment for Carpooling. Procedia Computer Science, 2013, 19, 372-379.	1.2	17
15	Optimal recharging framework and simulation for electric vehicle fleet. Future Generation Computer Systems, 2020, 107, 745-757.	4.9	16
16	Simulation Model of Carpooling with the Janus Multiagent Platform. Procedia Computer Science, 2013, 19, 860-866.	1.2	15
17	Determining structural route components from GPS traces. Transportation Research Part B: Methodological, 2016, 90, 156-171.	2.8	15
18	Threshold settings for TRIP/STOP detection in GPS traces. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 395-413.	3.3	15

#	ARTICLE	IF	CITATIONS
19	Agent-based Simulation Model for Long-term Carpooling: Effect of Activity Planning Constraints. <i>Procedia Computer Science</i> , 2015, 52, 412-419.	1.2	14
20	Organizational-based model and agent-based simulation for long-term carpooling. <i>Future Generation Computer Systems</i> , 2016, 64, 125-139.	4.9	14
21	Modeling Demand Responsive Transport using SARL and MATSim. <i>Procedia Computer Science</i> , 2017, 109, 1074-1079.	1.2	14
22	Applying an Activity based Model to Explore the Potential of Electrical Vehicles in the Smart Grid. <i>Procedia Computer Science</i> , 2013, 19, 847-853.	1.2	12
23	Within day rescheduling microsimulation combined with macrosimulated traffic. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 45, 99-118.	3.9	11
24	An Activity-based Carpooling Microsimulation Using Ontology. <i>Procedia Computer Science</i> , 2013, 19, 48-55.	1.2	10
25	Scalability issues in optimal assignment for carpooling. <i>Journal of Computer and System Sciences</i> , 2015, 81, 568-584.	0.9	9
26	On the use of clustering analysis for identification of unsafe places in an urban traffic network. <i>Procedia Computer Science</i> , 2020, 170, 187-194.	1.2	9
27	Organizational and Agent-based Automated Negotiation Model for Carpooling. <i>Procedia Computer Science</i> , 2014, 37, 396-403.	1.2	7
28	Negotiation and Coordination in Carpooling: Agent-Based Simulation Model. <i>Transportation Research Record</i> , 2016, 2542, 92-101.	1.0	7
29	TRIP/STOP Detection in GPS Traces to Feed Prompted Recall Survey. <i>Procedia Computer Science</i> , 2015, 52, 262-269.	1.2	6
30	GTFS bus stop mapping to the OSM network. <i>Future Generation Computer Systems</i> , 2020, 110, 393-406.	4.9	6
31	Agent-based Dynamic Rescheduling of Daily Activities. <i>Procedia Computer Science</i> , 2018, 130, 979-984.	1.2	5
32	Diary Survey Quality Assessment Using GPS Traces. <i>Procedia Computer Science</i> , 2015, 52, 600-605.	1.2	4
33	Data Preparation to Simulate Public Transport in Micro-Simulations Using OSM and GTFS. <i>Procedia Computer Science</i> , 2016, 83, 50-57.	1.2	4
34	A Generic Data-driven Sequential Clustering Algorithm Determining Activity Skeletons. <i>Procedia Computer Science</i> , 2016, 83, 34-41.	1.2	4
35	Towards an Agent-based Model for Demand-Responsive Transport Serving Thin Flows. <i>Procedia Computer Science</i> , 2016, 83, 952-957.	1.2	4
36	Expanding the analysis scope of a MATSim transport simulation by integrating the FEATHERS activity-based demand model. <i>Procedia Computer Science</i> , 2021, 184, 753-760.	1.2	4

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37	Addressing the Challenges of Conservative Event Synchronization for the SARL Agent-Programming Language. Lecture Notes in Computer Science, 2017, , 31-42.	1.0	4
38	Validation of Activity-based Travel Demand Model using Smart-card Data in Seoul, South Korea. Procedia Computer Science, 2015, 52, 707-712.	1.2	3
39	Estimation of Value of Time for a Congested Network – A Case Study of the National Highway, Karachi. Procedia Computer Science, 2016, 83, 262-269.	1.2	3
40	Using path decomposition enumeration to enhance route choice models. Future Generation Computer Systems, 2020, 107, 1077-1088.	4.9	3
41	Bicycle Parking in Station Areas in the Netherlands. Procedia Computer Science, 2021, 184, 338-345.	1.2	3
42	Synthetic Population Techniques in Activity-Based Research. Advances in Data Mining and Database Management Book Series, 2014, , 48-70.	0.4	3
43	Nationwide impact and vehicle to grid application of electric vehicles mobility using an activity based model. , 2013, , .		2
44	Canonic Route Splitting. Procedia Computer Science, 2014, 32, 309-316.	1.2	2
45	GTFS Bus Stop Mapping to the OSM Network. Procedia Computer Science, 2017, 109, 50-58.	1.2	2
46	Design of a feedback intervention to increase travel related physical activity of CVD patients. Procedia Computer Science, 2018, 141, 434-441.	1.2	2
47	Modelling Distribution of External–Internal Trips and Its Intra-region and Inter-region Transferability. Arabian Journal for Science and Engineering, 2019, 44, 4517-4532.	1.7	2
48	Path complexity for observed and predicted bicyclist routes. Procedia Computer Science, 2019, 151, 393-400.	1.2	2
49	Identifying bicycle trip impediments by data fusion. Procedia Computer Science, 2020, 170, 195-202.	1.2	2
50	Path complexity and bicyclist route choice set quality assessment. Personal and Ubiquitous Computing, 2021, 25, 63-75.	1.9	2
51	An Activity Based integrated approach to model impacts of parking, hubs and new mobility concepts. Procedia Computer Science, 2021, 184, 428-437.	1.2	2
52	Yearly Development of Car Ownership in Urban and Rural Environments. Procedia Computer Science, 2022, 201, 101-108.	1.2	2
53	A framework for electric vehicle charging strategy optimization tested for travel demand generated by an activity-based model. , 2014, , .		1
54	Enumerating minimum path decompositions to support route choice set generation. Procedia Computer Science, 2017, 109, 196-203.	1.2	1

#	ARTICLE	IF	CITATIONS
55	First steps towards a state-of-the-art parking simulator. <i>Procedia Computer Science</i> , 2018, 130, 779-784.	1.2	1
56	A simulation study of commuting alternatives for day care centres. <i>Future Generation Computer Systems</i> , 2020, 110, 323-337.	4.9	1
57	A Matching Framework for Employees to Support Carpooling in the Context of Large Companies. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 1159-1170.	4.7	1
58	Impacts of Electric Mobility on the Electric Grid. <i>Advances in Data Mining and Database Management Book Series</i> , 2014, , 319-339.	0.4	1
59	Agent-Based Modeling for Carpooling. , 2015, , 662-688.		1
60	Exploiting Graph-theoretic Tools for Matching and Partitioning of Agent Population in an Agent-based Model for Traffic and Transportation Applications. <i>Procedia Computer Science</i> , 2012, 10, 833-839.	1.2	0
61	The 2nd International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies and Applications (ABMTRANS™13) Preface. <i>Procedia Computer Science</i> , 2013, 19, 802.	1.2	0
62	Relationship Between Spatio-temporal Electricity Cost Variability and E-mobility. <i>Procedia Computer Science</i> , 2015, 52, 772-779.	1.2	0
63	Estimating Incoming Cross-border Trips Through Land Use data Resources – A Case of Karachi City. <i>Procedia Computer Science</i> , 2016, 83, 270-277.	1.2	0
64	Modelling Value of Time for Trip Chains in Daily Schedules. <i>Procedia Computer Science</i> , 2016, 83, 615-620.	1.2	0
65	Modeling value of time for trip chains using sigmoid utility. <i>Personal and Ubiquitous Computing</i> , 2017, 21, 1041-1053.	1.9	0
66	A task scheduling method for agent/activity-based models. <i>Procedia Computer Science</i> , 2018, 130, 761-766.	1.2	0
67	Bicyclist Route Choice: Data Exploration and Research Project Outline. <i>Procedia Computer Science</i> , 2019, 151, 401-408.	1.2	0
68	Door-to-door transit accessibility using Pareto optimal range queries. <i>Procedia Computer Science</i> , 2020, 170, 107-114.	1.2	0
69	Optimal bicycle trip impediments resolution by data fusion. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 103-120.	3.3	0
70	Electric Vehicles in the Smart Grid. <i>Advances in Data Mining and Database Management Book Series</i> , 2014, , 340-363.	0.4	0
71	Agent-Based Modeling for Carpooling. <i>Advances in Data Mining and Database Management Book Series</i> , 2014, , 232-258.	0.4	0