Tom Bellemans

List of Publications by Year in descending order

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| | | 331670 | 395702 |
|----------|----------------|--------------|----------------|
| 114 | 1,481 | 21 | 33 |
| papers | citations | h-index | g-index |
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| 115 | 115 | 115 | 1557 |
| all docs | docs citations | times ranked | citing authors |
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TOM RELIEMANS

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Implementation Framework and Development Trajectory of FEATHERS Activity-Based Simulation Platform. Transportation Research Record, 2010, 2175, 111-119. | 1.9 | 120 |
| 2 | Street characteristics and traffic factors determining road users' exposure to black carbon. Science of the Total Environment, 2013, 447, 72-79. | 8.0 | 77 |
| 3 | UAV-Based Traffic Analysis: A Universal Guiding Framework Based on Literature Survey. Transportation Research Procedia, 2017, 22, 541-550. | 1.5 | 70 |
| 4 | Unmanned Aerial Vehicle-Based Traffic Analysis: A Case Study for Shockwave Identification and Flow Parameters Estimation at Signalized Intersections. Remote Sensing, 2018, 10, 458. | 4.0 | 68 |
| 5 | Application of Geographically Weighted Regression Technique in Spatial Analysis of Fatal and Injury Crashes. Journal of Transportation Engineering, 2014, 140, . | 0.9 | 65 |
| 6 | Health impact assessment of air pollution using a dynamic exposure profile: Implications for exposure and health impact estimates. Environmental Impact Assessment Review, 2012, 36, 42-51. | 9.2 | 64 |
| 7 | Unmanned Aerial Vehicle–Based Traffic Analysis: Methodological Framework for Automated Multivehicle Trajectory Extraction. Transportation Research Record, 2017, 2626, 25-33. | 1.9 | 49 |
| 8 | Assessing the road safety impacts of a teleworking policy by means of geographically weighted regression method. Journal of Transport Geography, 2014, 39, 96-110. | 5.0 | 38 |
| 9 | Integrated health impact assessment of travel behaviour: Model exploration and application to a fuel price increase. Environment International, 2013, 51, 45-58. | 10.0 | 37 |
| 10 | Unmanned Aerial Vehicle-based Traffic Analysis: A Case Study to Analyze Traffic Streams at Urban Roundabouts. Procedia Computer Science, 2018, 130, 636-643. | 2.0 | 31 |
| 11 | Activity-Based Modeling to Predict Spatial and Temporal Power Demand of Electric Vehicles in Flanders, Belgium. Transportation Research Record, 2012, 2287, 146-154. | 1.9 | 30 |
| 12 | Evaluating the road safety effects of a fuel cost increase measure by means of zonal crash prediction modeling. Accident Analysis and Prevention, 2013, 50, 186-195. | 5.7 | 28 |
| 13 | A Conceptual Design of an Agent-based Interaction Model for the Carpooling Application. Procedia Computer Science, 2012, 10, 801-807. | 2.0 | 27 |
| 14 | Last-mile travel and bicycle sharing system in small/medium sized cities: user's preferences investigation using hybrid choice model. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 4721-4731. | 4.9 | 27 |
| 15 | Activity based models for countrywide electric vehicle power demand calculation. , 2011, , . | | 26 |
| 16 | An Agent-Based Model to Evaluate Carpooling at Large Manufacturing Plants. Procedia Computer Science, 2012, 10, 1221-1227. | 2.0 | 26 |
| 17 | Integration of population mobility in the evaluation of air quality measures on local and regional scales. Atmospheric Environment, 2012, 59, 67-74. | 4.1 | 25 |
| 18 | Free public transport: A socio-cognitive analysis. Transportation Research, Part A: Policy and Practice, 2016, 86, 96-107. | 4.2 | 25 |

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|----|---|-----|-----------|
| 19 | A coordinated Framework for Optimized Charging of EV Fleet in Smart Grid. Procedia Computer Science, 2016, 94, 332-339. | 2.0 | 24 |
| 20 | A data-driven approach for origin–destination matrix construction from cellular network signalling data: a case study of Lyon region (France). Transportation, 2021, 48, 1671-1702. | 4.0 | 24 |
| 21 | Application of Different Exposure Measures in Development of Planning-Level Zonal Crash Prediction Models. Transportation Research Record, 2012, 2280, 145-153. | 1.9 | 23 |
| 22 | Field Evaluation of Personal Digital Assistant Enabled by Global Positioning System. Transportation Research Record, 2008, 2049, 136-143. | 1.9 | 22 |
| 23 | Application of a Rule-Based Approach in Real-Time Crash Risk Prediction Model Development Using Loop Detector Data. Traffic Injury Prevention, 2015, 16, 786-791. | 1.4 | 22 |
| 24 | Exploiting graph-theoretic tools for matching in carpooling applications. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 393-407. | 4.9 | 21 |
| 25 | Likelihood-based offline map matching of GPS recordings using global trace information. Transportation Research Part C: Emerging Technologies, 2018, 93, 13-35. | 7.6 | 21 |
| 26 | Analysis of the Co-routing Problem in Agent-based Carpooling Simulation. Procedia Computer Science, 2012, 10, 821-826. | 2.0 | 19 |
| 27 | Assessing the impact of different policy decisions on the resource requirements of a Demand Responsive Transport system for persons with disabilities. Transport Policy, 2015, 44, 48-57. | 6.6 | 19 |
| 28 | Activity Travel Planning and Rescheduling Behavior. Transportation Research Record, 2009, 2134, 135-142. | 1.9 | 18 |
| 29 | Estimating Scalability Issues While Finding an Optimal Assignment for Carpooling. Procedia Computer Science, 2013, 19, 372-379. | 2.0 | 17 |
| 30 | Identification of the determinants of fare evasion. Case Studies on Transport Policy, 2018, 6, 348-352. | 2.5 | 17 |
| 31 | Optimal recharging framework and simulation for electric vehicle fleet. Future Generation Computer Systems, 2020, 107, 745-757. | 7.5 | 16 |
| 32 | Travel Time Evaluation of a U-Turn Facility. Transportation Research Record, 2011, 2223, 26-33. | 1.9 | 15 |
| 33 | Determining structural route components from GPS traces. Transportation Research Part B: Methodological, 2016, 90, 156-171. | 5.9 | 15 |
| 34 | Threshold settings for TRIP/STOP detection in GPS traces. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 395-413. | 4.9 | 15 |
| 35 | Activity-based model for medium-sized cities considering external activity–travel: Enhancing FEATHERS framework. Future Generation Computer Systems, 2019, 96, 51-63. | 7.5 | 15 |
| 36 | Agent-based Simulation Model for Long-term Carpooling: Effect of Activity Planning Constraints. Procedia Computer Science, 2015, 52, 412-419. | 2.0 | 14 |

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|----|---|-----|-----------|
| 37 | Organizational-based model and agent-based simulation for long-term carpooling. Future Generation Computer Systems, 2016, 64, 125-139. | 7.5 | 14 |
| 38 | Modeling Demand Responsive Transport using SARL and MATSim. Procedia Computer Science, 2017, 109, 1074-1079. | 2.0 | 14 |
| 39 | The usefulness of the Sequence Alignment Methods in validating rule-based activity-based forecasting models. Transportation, 2012, 39, 773-789. | 4.0 | 13 |
| 40 | Developing an optimised activity type annotation method based on classification accuracy and entropy indices. Transportmetrica A: Transport Science, 2017, 13, 742-766. | 2.0 | 12 |
| 41 | Within day rescheduling microsimulation combined with macrosimulated traffic. Transportation Research Part C: Emerging Technologies, 2014, 45, 99-118. | 7.6 | 11 |
| 42 | An Activity-based Carpooling Microsimulation Using Ontology. Procedia Computer Science, 2013, 19, 48-55. | 2.0 | 10 |
| 43 | Investigating micro-simulation error in activity-based travel demand forecasting: a case study of the FEATHERS framework. Transportation Planning and Technology, 2015, 38, 425-441. | 2.0 | 10 |
| 44 | Translating road safety into health outcomes using a quantitative impact assessment model. Injury Prevention, 2012, 18, 413-420. | 2.4 | 9 |
| 45 | Scalability issues in optimal assignment for carpooling. Journal of Computer and System Sciences, 2015, 81, 568-584. | 1.2 | 9 |
| 46 | Activity-Based Travel Demand Modeling Framework FEATHERS: Sensitivity Analysis with Decision Trees. Transportation Research Record, 2016, 2564, 89-99. | 1.9 | 9 |
| 47 | Viamigo. Transportation Research Record, 2017, 2650, 25-32. | 1.9 | 8 |
| 48 | Multi-stage trips: An exploration of factors affecting mode combination choice of travelers in England. Transport Policy, 2019, 81, 95-105. | 6.6 | 8 |
| 49 | Organizational and Agent-based Automated Negotiation Model for Carpooling. Procedia Computer Science, 2014, 37, 396-403. | 2.0 | 7 |
| 50 | Travel Demand Forecasting Using Activity-Based Modeling Framework FEATHERS: An Extension. International Journal of Intelligent Systems, 2015, 30, 948-962. | 5.7 | 7 |
| 51 | Knowledge of the concept Light Rail Transit: Exploring its relevance and identification of the determinants of various knowledge levels. Transportation Research, Part A: Policy and Practice, 2015, 74, 31-43. | 4.2 | 7 |
| 52 | Negotiation and Coordination in Carpooling: Agent-Based Simulation Model. Transportation Research Record, 2016, 2542, 92-101. | 1.9 | 7 |
| 53 | Tracking household routines using scheduling hypothesis embedded in skeletons. Transportmetrica, 2012, 8, 225-241. | 1.8 | 6 |
| 54 | Modeling Personal Exposure to Air Pollution with AB2C: Environmental Inequality. Procedia Computer Science, 2014, 32, 269-276. | 2.0 | 6 |

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| 55 | TRIP/STOP Detection in GPS Traces to Feed Prompted Recall Survey. Procedia Computer Science, 2015, 52, 262-269. | 2.0 | 6 |
| 56 | Investigating pedestrian walkability using a multitude of Seoul data sources. Transportmetrica B, 2018, 6, 54-73. | 2.3 | 6 |
| 57 | GTFS bus stop mapping to the OSM network. Future Generation Computer Systems, 2020, 110, 393-406. | 7.5 | 6 |
| 58 | Estimation of travel time distributions for urban roads using GPS trajectories of vehicles: a case of Athens, Greece. Personal and Ubiquitous Computing, 2021, 25, 237-246. | 2.8 | 6 |
| 59 | Quality assessment of location data obtained by the GPS-enabled PARROTS survey tool. Journal of Location Based Services, 2010, 4, 93-104. | 1.9 | 5 |
| 60 | An Agent Based Simulated Goods Exchange Market; A Prerequisite For Freight Transport Modeling. Procedia Computer Science, 2015, 52, 622-629. | 2.0 | 5 |
| 61 | An examination of the accuracy of an activity-based travel simulation against smartcard and navigation device data. Travel Behaviour & Society, 2017, 7, 34-42. | 5.0 | 5 |
| 62 | Agent-based Dynamic Rescheduling of Daily Activities. Procedia Computer Science, 2018, 130, 979-984. | 2.0 | 5 |
| 63 | Potential of cellular signaling data for time-of-day estimation and spatial classification of travel demand: a large-scale comparative study with travel survey and land use data. Transportation Letters, 2022, 14, 787-805. | 3.1 | 5 |
| 64 | Measuring and Estimating Suppressed Travel with Enhanced Activity–Travel Diaries. Transportation Research Record, 2009, 2105, 57-63. | 1.9 | 4 |
| 65 | Seoul activity-based Model: An Application of Feathers Solutions to Seoul Metropolitan Area. Procedia Computer Science, 2012, 10, 840-845. | 2.0 | 4 |
| 66 | Diary Survey Quality Assessment Using GPS Traces. Procedia Computer Science, 2015, 52, 600-605. | 2.0 | 4 |
| 67 | Data Preparation to Simulate Public Transport in Micro-Simulations Using OSM and GTFS. Procedia Computer Science, 2016, 83, 50-57. | 2.0 | 4 |
| 68 | A Generic Data-driven Sequential Clustering Algorithm Determining Activity Skeletons. Procedia Computer Science, 2016, 83, 34-41. | 2.0 | 4 |
| 69 | Towards an Agent-based Model for Demand-Responsive Transport Serving Thin Flows. Procedia Computer Science, 2016, 83, 952-957. | 2.0 | 4 |
| 70 | Applying FEATHERS for Travel Demand Analysis: Model Considerations. Applied Sciences (Switzerland), 2018, 8, 211. | 2.5 | 4 |
| 71 | Zipf's power law in activity schedules and the effect of aggregation. Future Generation Computer Systems, 2020, 107, 1014-1025. | 7.5 | 4 |
| 72 | Addressing the Challenges of Conservative Event Synchronization for the SARL Agent-Programming Language. Lecture Notes in Computer Science, 2017, , 31-42. | 1.3 | 4 |

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| 73 | Investigating the Minimum Size of Study Area for an Activity-Based Travel Demand Forecasting Model. Mathematical Problems in Engineering, 2015, 2015, 1-9. | 1.1 | 3 |
| 74 | Validation of Activity-based Travel Demand Model using Smart-card Data in Seoul, South Korea. Procedia Computer Science, 2015, 52, 707-712. | 2.0 | 3 |
| 75 | On a fair distribution of consumer's flexibility between market parties with conflicting interests. International Transactions on Electrical Energy Systems, 2016, 26, 1961-1982. | 1.9 | 3 |
| 76 | SOULMATE - Secure Old people's Ultimate Lifestyle Mobility by offering Augmented reality Training Experiences. Procedia Computer Science, 2018, 141, 335-342. | 2.0 | 3 |
| 77 | Exploratory analysis of Zipf's universal power law in activity schedules. Transportation, 2019, 46, 1689-1712. | 4.0 | 3 |
| 78 | Using path decomposition enumeration to enhance route choice models. Future Generation Computer Systems, 2020, 107, 1077-1088. | 7.5 | 3 |
| 79 | A Data Imputation Method with Support Vector Machines for Activity-Based Transportation Models. Advances in Intelligent and Soft Computing, 2011, , 249-257. | 0.2 | 3 |
| 80 | Synthetic Population Techniques in Activity-Based Research. Advances in Data Mining and Database Management Book Series, 2014, , 48-70. | 0.5 | 3 |
| 81 | Canonic Route Splitting. Procedia Computer Science, 2014, 32, 309-316. | 2.0 | 2 |
| 82 | Geographical Extension of the Activity-based Modeling Framework FEATHERS. Procedia Computer Science, 2014, 32, 774-779. | 2.0 | 2 |
| 83 | Investigating the predictive performance of computational process activity-based transportation models. Transportation Planning and Technology, 2016, 39, 551-573. | 2.0 | 2 |
| 84 | GTFS Bus Stop Mapping to the OSM Network. Procedia Computer Science, 2017, 109, 50-58. | 2.0 | 2 |
| 85 | Zipf's power law in activity schedules and the effect of aggregation. Procedia Computer Science, 2017, 109, 225-232. | 2.0 | 2 |
| 86 | Modeling External Trips: Review of Past Studies and Directions for Way Forward. Journal of Transportation Engineering Part A: Systems, 2018, 144, 04018051. | 1.4 | 2 |
| 87 | Modelling Distribution of External–Internal Trips and Its Intra-region and Inter-region Transferability. Arabian Journal for Science and Engineering, 2019, 44, 4517-4532. | 3.0 | 2 |
| 88 | Exploring the Spatial Transferability of FEATHERS – An Activity Based Travel Demand Model – For Ho Chi Minh City, Vietnam. Procedia Computer Science, 2019, 151, 226-233. | 2.0 | 2 |
| 89 | An Activity Based integrated approach to model impacts of parking, hubs and new mobility concepts. Procedia Computer Science, 2021, 184, 428-437. | 2.0 | 2 |
| 90 | A Micro Simulated and Demand Driven Supply Chain Model To Calculate Regional Production and Consumption Matrices. Procedia Computer Science, 2013, 19, 404-411. | 2.0 | 1 |

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| 91 | Integrating GIS and FEATHERS: A Conceptual Design. Procedia Computer Science, 2014, 32, 405-412. | 2.0 | 1 |
| 92 | Enumerating minimum path decompositions to support route choice set generation. Procedia Computer Science, 2017, 109, 196-203. | 2.0 | 1 |
| 93 | First steps towards a state-of-the-art parking simulator. Procedia Computer Science, 2018, 130, 779-784. | 2.0 | 1 |
| 94 | Optimizing copious activity type classes based on classification accuracy and entropy retention. Future Generation Computer Systems, 2020, 110, 338-349. | 7.5 | 1 |
| 95 | A Matching Framework for Employees to Support Carpooling in the Context of Large Companies. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1159-1170. | 8.0 | 1 |
| 96 | Decision-Making under Time Pressure when Rescheduling Daily Activities. Procedia Computer Science, 2020, 170, 281-288. | 2.0 | 1 |
| 97 | A Study on Data Preprocessing for the Activity-Travel Simulator: A Case of FEATHERS Seoul. Journal of Korean Society of Transportation, 2014, 32, 531-543. | 0.3 | 1 |
| 98 | Is Driving 1 km to Work Worse for the Environment Than Driving 1 km for Shopping?. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 79-83. | 0.2 | 1 |
| 99 | Activity-Based Travel Demand Forecasting Using Micro-Simulation. Advances in Data Mining and Database Management Book Series, 2014, , 167-181. | 0.5 | 1 |
| 100 | Agent-Based Modeling for Carpooling. , 2015, , 662-688. | | 1 |
| 101 | Traffic Safety Implications of Travel Demand Management Policies. , 2015, , 1082-1107. | | 1 |
| 102 | Modeling and Structuring of Activity Scheduling Choices with Consideration of Intrazonal Tours: A Case Study of Motorcycle-Based Cities. Sustainability, 2022, 14, 6367. | 3.2 | 1 |
| 103 | Exploiting Graph-theoretic Tools for Matching and Partitioning of Agent Population in an Agent-based Model for Traffic and Transportation Applications. Procedia Computer Science, 2012, 10, 833-839. | 2.0 | 0 |
| 104 | Research on Restrained Study Areas for Effective Activity-Based Travel Demand Forecasting. , 2014, , . | | 0 |
| 105 | A Bottom up Approach to Estimate Production-consumption Matrices from a Synthetic Firm Population Generated by Iterative Proportional Updating. Transportation Research Procedia, 2014, 1, 49-56. | 1.5 | 0 |
| 106 | Relationship Between Spatio-temporal Electricity Cost Variability and E-mobility. Procedia Computer Science, 2015, 52, 772-779. | 2.0 | 0 |
| 107 | Estimating Incoming Cross-border Trips Through Land Use data Resources – A Case of Karachi City. Procedia Computer Science, 2016, 83, 270-277 | 2.0 | 0 |
| 108 | Modelling Value of Time for Trip Chains in Daily Schedules. Procedia Computer Science, 2016, 83, 615-620. | 2.0 | 0 |

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| 109 | Modeling value of time for trip chains using sigmoid utility. Personal and Ubiquitous Computing, 2017, 21, 1041-1053. | 2.8 | 0 |
| 110 | Special issue of the international journal of urban sciences on â€~activity-based modeling in urban sciences'. International Journal of Urban Sciences, 2018, 22, 145-146. | 2.8 | 0 |
| 111 | Comprehensive Modeling Framework to Integrate External Trips in a Travel Demand Model. Journal of Computing in Civil Engineering, 2019, 33, 04019011. | 4.7 | 0 |
| 112 | Agent-Based Modeling for Carpooling. Advances in Data Mining and Database Management Book Series, 2014, , 232-258. | 0.5 | 0 |
| 113 | Traffic Safety Implications of Travel Demand Management Policies. Advances in Data Mining and Database Management Book Series, 2014, , 115-140. | 0.5 | 0 |
| 114 | Activity Sequence Generation Using Universal Mobility Patterns. Transportation Research Record, 0, , 036119812110624. | 1.9 | 0 |