Bart van Arem

List of Publications by Year in Descending Order

183 papers	5,129 citations	34 h-index	66 g-index
194 ext. papers	6,434 ext. citations	3.7 avg, IF	6.44 L-index

#	Paper	IF	Citations
183	Behavioral adaptations of human drivers interacting with automated vehicles. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2022**, 86, 48-64	4.5	1
182	Hierarchical Optimal Maneuver Planning and Trajectory Control at On-Ramps With Multiple Mainstream Lanes. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-14	6.1	0
181	Cyclists Crossing Intentions When Interacting with Automated Vehicles: A Virtual Reality Study. *Information (Switzerland)*, **2021**, 12, 7	2.6	5
180	Optimizing Road Networks for Automated Vehicles with Dedicated Links, Dedicated Lanes, and Mixed-Traffic Subnetworks. *Journal of Advanced Transportation*, **2021**, 2021, 1-17	1.9	3
179	A structural equation modeling approach for the acceptance of driverless automated shuttles based on constructs from the Unified Theory of Acceptance and Use of Technology and the Diffusion of Innovation Theory. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2021**, 79, 58-73	4.5	16
178	On lane assignment of connected automated vehicles: strategies to improve traffic flow at diverge and weave bottlenecks. *Transportation Research Part C: Emerging Technologies*, **2021**, 127, 103126	8.4	1
177	. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 3430-3443	6.1	6
176	An Empirical Analysis to Assess the Operational Design Domain of Lane Keeping System Equipped Vehicles Combining Objective and Subjective Risk Measures. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 2589-2598	6.1	11
175	The impact of a dedicated lane for connected and automated vehicles on the behaviour of drivers of manual vehicles. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2021**, 82, 141-153	4.5	4
174	Will pedestrians cross the road before an automated vehicle? The effect of drivers attentiveness and presence on pedestrians road crossing behavior. *Transportation Research Interdisciplinary Perspectives*, **2021**, 12, 100466	7.3	2
173	Multi-stage optimal design of road networks for automated vehicles with elastic multi-class demand. *Computers and Operations Research*, **2021**, 136, 105483	4.6	
172	Deployment Scenarios for First/Last-Mile Operations With Driverless Shuttles Based on Literature Review and Stakeholder Survey. *IEEE Open Journal of Intelligent Transportation Systems*, **2021**, 2, 322-337	1.7	0
171	Lane Change Control Combined with Ramp Metering: A Strategy to Manage Delays at On-Ramp Merging Sections. *Journal of Advanced Transportation*, **2021**, 2021, 1-12	1.9	2
170	Design and operation of dedicated lanes for connected and automated vehicles on motorways: A conceptual framework and research agenda. *Transportation Research Part C: Emerging Technologies*, **2020**, 117, 102664	8.4	14
169	Gaps in the Control of Automated Vehicles on Roads. *IEEE Intelligent Transportation Systems Magazine*, **2020**, 1-1	2.6	9
168	AMSense: How Mobile Sensing Platforms Capture Pedestrian/Cyclist Spatiotemporal Properties in Cities. *IEEE Intelligent Transportation Systems Magazine*, **2020**, 0-0	2.6	3
167	Understanding ride-sourcing drivers' behaviour and preferences: Insights from focus groups analysis. *Research in Transportation Business and Management*, **2020**, 37, 100516	2.8	10

166	Automated taxi dial-a-ride problem with ride-sharing considering congestion-based dynamic travel times. *Transportation Research Part C: Emerging Technologies*, **2020**, 112, 260-281	8.4	31
165	Travel times in quasi-dynamic traffic assignment. *Transportmetrica A: Transport Science*, **2020**, 16, 865-891	1.5	
164	A human centric framework for the analysis of automated driving systems based on meaningful human control. *Theoretical Issues in Ergonomics Science*, **2020**, 21, 478-506	2.2	6
163	Adaptations in driver behaviour characteristics during control transitions from full-range Adaptive Cruise Control to manual driving: an on-road study. *Transportmetrica A: Transport Science*, **2020**, 16, 776-806	2.5	8
162	. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-14	6.1	3
161	Cooperative adaptive cruise control and intelligent traffic signal interaction: a field operational test with platooning on a suburban arterial in real traffic. *IET Intelligent Transport Systems*, **2020**, 14, 1665-1672	2.4	2
160	A bi-level model to optimize road networks for a mixture of manual and automated driving: An evolutionary local search algorithm. *Computer-Aided Civil and Infrastructure Engineering*, **2020**, 35, 80-96	8.4	8
159	Analysis of the effect of charging needs on battery electric vehicle drivers route choice behaviour: A case study in the Netherlands. *Transportation Research, Part D: Transport and Environment*, **2020**, 78, 102206	6.4	22
158	A generic multi-level framework for microscopic traffic simulation with automated vehicles in mixed traffic. *Transportation Research Part C: Emerging Technologies*, **2020**, 110, 291-311	8.4	17
157	Traffic Flow Impacts of Converting an HOV Lane Into a Dedicated CACC Lane on a Freeway Corridor. *IEEE Intelligent Transportation Systems Magazine*, **2020**, 12, 60-73	2.6	11
156	Probabilistic field approach for motorway driving risk assessment. *Transportation Research Part C: Emerging Technologies*, **2020**, 118, 102716	8.4	13
155	Spatial impact of automated driving in urban areas. *Journal of Simulation*, **2020**, 14, 295-303	1.9	6
154	Passenger opinions of the perceived safety and interaction with automated shuttles: A test ride study with hidden safety steward. *Transportation Research, Part A: Policy and Practice*, **2020**, 138, 508-524	3.7	8
153	Interrelationships among predictors of automated vehicle acceptance: a structural equation modelling approach. *Theoretical Issues in Ergonomics Science*, **2020**, 1-26	2.2	3
152	. *IEEE Open Journal of Intelligent Transportation Systems*, **2020**, 1, 187-200	1.7	6
151	The Persuasive Automobile: Design and Evaluation of a Persuasive Lane-Specific Advice Human Machine Interface. *IEEE Open Journal of Intelligent Transportation Systems*, **2020**, 1, 93-108	1.7	0
150	Improving Traffic Flow Efficiency at Motorway Lane Drops by Influencing Lateral Flows. *Transportation Research Record*, **2020**, 2674, 367-378	1.7	3
149	A Hierarchical Model-Based Optimization Control Approach for Cooperative Merging by Connected Automated Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-14	6.1	15

148	Operational Design Domain Requirements for Improved Performance of Lane Assistance Systems: A Field Test Study in The Netherlands. *IEEE Open Journal of Intelligent Transportation Systems*, **2020**, 1, 237-252	1.7	5
147	Crowding valuation in urban tram and bus transportation based on smart card data. *Transportmetrica A: Transport Science*, **2020**, 16, 23-42	2.5	47
146	Studying pedestrians crossing behavior when interacting with automated vehicles using virtual reality. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2019**, 66, 1-14	4.5	37
145	A multi-level model on automated vehicle acceptance (MAVA): a review-based study. *Theoretical Issues in Ergonomics Science*, **2019**, 20, 682-710	2.2	55
144	Acclimatizing to automation: Driver workload and stress during partially automated car following in real traffic. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2019**, 65, 503-517	4.5	19
143	What impressions do users have after a ride in an automated shuttle? An interview study. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2019**, 63, 252-269	4.5	59
142	Building Automation into Urban and Metropolitan Mobility Planning. *Lecture Notes in Mobility*, **2019**, 123-136	0.5	4
141	Evaluation and modelling of the traffic flow effects of truck platooning. *Transportation Research Part C: Emerging Technologies*, **2019**, 105, 1-22	8.4	27
140	Benefits and Risks of Truck Platooning on Freeway Operations Near Entrance Ramp. *Transportation Research Record*, **2019**, 2673, 588-602	1.7	20
139	Cross-Comparison and Calibration of Two Microscopic Traffic Simulation Models for Complex Freeway Corridors with Dedicated Lanes. *Journal of Advanced Transportation*, **2019**, 2019, 1-14	1.9	7
138	Design analysis of a decentralized equilibrium-routing strategy for intelligent vehicles. *Transportation Research Part C: Emerging Technologies*, **2019**, 103, 308-327	8.4	6
137	Human behaviour with automated driving systems: a quantitative framework for meaningful human control. *Theoretical Issues in Ergonomics Science*, **2019**, 20, 711-730	2.2	10
136	Using advanced adaptive cruise control systems to reduce congestion at sags: An evaluation based on microscopic traffic simulation. *Transportation Research Part C: Emerging Technologies*, **2019**, 102, 411-426	8.4	21
135	Impact of Automated Vehicles on Travel Mode Preference for Different Trip Purposes and Distances. *Transportation Research Record*, **2019**, 2673, 607-616	1.7	23
134	HeartPy: A novel heart rate algorithm for the analysis of noisy signals. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2019**, 66, 368-378	4.5	34
133	Relationships between mobile phone usage and activity-travel behavior: A review of the literature and an example. *Advances in Transport Policy and Planning*, **2019**, 3, 81-105	1.9	2
132	Analysing Noisy Driver Physiology Real-Time Using Off-the-Shelf Sensors: Heart Rate Analysis Software from the Taking the Fast Lane Project. *Journal of Open Research Software*, **2019**, 7,	2.3	15
131	First order multi-lane traffic flow model an incentive based macroscopic model to represent lane change dynamics. *Transportmetrica B*, **2019**, 7, 1758-1779	1.8	6

130	The link transmission model with variable fundamental diagrams and initial conditions. *Transportmetrica B*, **2019**, 7, 834-864	1.8	
129	On the impact of vehicle automation on the value of travel time while performing work and leisure activities in a car: Theoretical insights and results from a stated preference survey. *Transportation Research, Part A: Policy and Practice*, **2019**, 119, 359-382	3.7	44
128	A conceptual model for persuasive in-vehicle technology to influence tactical level driver behaviour. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2019**, 60, 202-216	4.5	5
127	Assessing the travel impacts of subnetworks for automated driving: An exploratory study. *Case Studies on Transport Policy*, **2019**, 7, 48-56	2.7	14
126	A human factors perspective on automated driving. *Theoretical Issues in Ergonomics Science*, **2019**, 20, 223-249	2.2	103
125	Mobility impacts of early forms of automated driving A system dynamic approach. *Transport Policy*, **2018**, 72, 171-179	5.7	16
124	Understanding travellers preferences for different types of trip destination based on mobile internet usage data. *Transportation Research Part C: Emerging Technologies*, **2018**, 90, 247-259	8.4	34
123	Delay-compensating strategy to enhance string stability of adaptive cruise controlled vehicles. *Transportmetrica B*, **2018**, 6, 211-229	1.8	40
122	User acceptance of automated shuttles in Berlin-Sch eberg: A questionnaire study. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2018**, 58, 843-854	4.5	110
121	Performance analysis and fleet requirements of automated demand-responsive transport systems as an urban public transport service. *International Journal of Transportation Science and Technology*, **2018**, 7, 151-167	3.3	25
120	Infrastructure for Automated and Connected Driving: State of the Art and Future Research Directions. *Lecture Notes in Mobility*, **2018**, 187-197	0.5	18
119	Towards a quantitative method to analyze the long-term innovation diffusion of automated vehicles technology using system dynamics. *Transportation Research Part C: Emerging Technologies*, **2018**, 86, 300-327	8.4	68
118	Multi-Level Driver Workload Prediction using Machine Learning and Off-the-Shelf Sensors. *Transportation Research Record*, **2018**, 2672, 141-152	1.7	13
117	A Flexible Strategy for Efficient Merging Maneuvers of Connected Automated Vehicles **2018**,		3
116	Application of Driverless Electric Automated Shuttles for Public Transport in Villages: The Case of Appelscha. *World Electric Vehicle Journal*, **2018**, 9, 15	2.5	8
115	Rule based control for merges: Assessment and case study **2018**,		3
114	Unravelling effects of cooperative adaptive cruise control deactivation on traffic flow characteristics at merging bottlenecks. *Transportation Research Part C: Emerging Technologies*, **2018** , 96, 380-397	8.4	78
113	Modelling decisions of control transitions and target speed regulations in full-range Adaptive Cruise Control based on Risk Allostasis Theory. *Transportation Research Part B: Methodological*, **2018**, 117, 318-341	7.2	17

112	Applying a Model for Trip Assignment and Dynamic Routing of Automated Taxis with Congestion: System Performance in the City of Delft, The Netherlands. *Transportation Research Record*, **2018**, 2672, 588-598	1.7	14
111	Acceptance of Driverless Vehicles: Results from a Large Cross-National Questionnaire Study. *Journal of Advanced Transportation*, **2018**, 2018, 1-22	1.9	127
110	A Robust Longitudinal Control Strategy of Platoons under Model Uncertainties and Time Delays. *Journal of Advanced Transportation*, **2018**, 2018, 1-13	1.9	35
109	Effects of mental demands on situation awareness during platooning: A driving simulator study. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2018**, 58, 193-209	4.5	21
108	Policy and society related implications of automated driving: A review of literature and directions for future research. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2017**, 21, 324-348	3.2	399
107	Assessment of transport performance index for urban transport development strategies Incorporating residents' preferences. *Environmental Impact Assessment Review*, **2017**, 63, 107-115	5.3	10
106	. *IEEE Transactions on Intelligent Transportation Systems*, **2017**, 18, 2503-2513	6.1	30
105	Evaluating the robustness effects of infrastructure projects based on their topological and geometrical roadway designs. *Transport Policy*, **2017**, 57, 20-30	5.7	
104	Driving Characteristics and Adaptive Cruise Control ? A Naturalistic Driving Study. *IEEE Intelligent Transportation Systems Magazine*, **2017**, 9, 17-24	2.6	20
103	Extending the Link Transmission Model with non-triangular fundamental diagrams and capacity drops. *Transportation Research Part B: Methodological*, **2017**, 98, 154-178	7.2	10
102	Optimizing Traffic Flow Efficiency by Controlling Lane Changes: Collective, Group, and User Optima. *Transportation Research Record*, **2017**, 2622, 96-104	1.7	9
101	The impact of route guidance, departure time advice and alternative routes on door-to-door travel time reliability: Two data-driven assessment methods. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2017**, 21, 465-477	3.2	4
100	Realistic Car-Following Models for Microscopic Simulation of Adaptive and Cooperative Adaptive Cruise Control Vehicles. *Transportation Research Record*, **2017**, 2623, 1-9	1.7	54
99	Effects of platooning on signal-detection performance, workload, and stress: A driving simulator study. *Applied Ergonomics*, **2017**, 60, 116-127	4.2	34
98	Comparative Assessment of Safety Indicators for Vehicle Trajectories on Highways. *Transportation Research Record*, **2017**, 2659, 127-136	1.7	21
97	Resuming Manual Control or Not?: Modeling Choices of Control Transitions in Full-Range Adaptive Cruise Control. *Transportation Research Record*, **2017**, 2622, 38-47	1.7	7
96	An optimization model for vehicle routing of automated taxi trips with dynamic travel times. *Transportation Research Procedia*, **2017**, 27, 736-743	2.4	5
95	Preferences of travellers for using automated vehicles as last mile public transport of multimodal train trips. *Transportation Research, Part A: Policy and Practice*, **2016**, 94, 1-16	3.7	84

94	Optimizing the service area and trip selection of an electric automated taxi system used for the last mile of train trips. *Transportation Research, Part E: Logistics and Transportation Review*, **2016**, 93, 115-129	9	69
93	Optimization of traffic flow at freeway sags by controlling the acceleration of vehicles equipped with in-car systems. *Transportation Research Part C: Emerging Technologies*, **2016**, 71, 1-18	8.4	16
92	Solving the User Optimum Privately Owned Automated Vehicles Assignment Problem (UO-POAVAP): A model to explore the impacts of self-driving vehicles on urban mobility. *Transportation Research Part B: Methodological*, **2016**, 87, 64-88	7.2	100
91	Modeling Traffic at Sags. *International Journal of Intelligent Transportation Systems Research*, **2016**, 14, 64-74	1.4	15
90	Cooperative Car-Following Control: Distributed Algorithm and Impact on Moving Jam Features. *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 17, 1459-1471	6.1	87
89	The influence of integrated spaceÐransport development strategies on air pollution in urban areas. *Transportation Research, Part D: Transport and Environment*, **2016**, 44, 134-146	6.4	19
88	Psychological constructs in driving automation: a consensus model and critical comment on construct proliferation. *Theoretical Issues in Ergonomics Science*, **2016**, 17, 284-303	2.2	28
87	Integrated Traffic Flow Models and Analysis for Automated Vehicles. *Lecture Notes in Mobility*, **2016**, 249-258	0.5	0
86	Designing an Automated Demand-Responsive Transport System: Fleet Size and Performance Analysis for a CampusÐTrain Station Service. *Transportation Research Record*, **2016**, 2542, 75-83	1.7	29
85	Design and analysis of Full Range Adaptive Cruise Control with integrated collision a voidance strategy **2016**,		13
84	Conceptual Model to Explain, Predict, and Improve User Acceptance of Driverless Podlike Vehicles. *Transportation Research Record*, **2016**, 2602, 60-67	1.7	91
83	Propagating Agents with Macroscopic Dynamic Network Loading: Challenges and Possible Solutions. *Procedia Computer Science*, **2016**, 83, 914-920	1.6	2
82	Connected variable speed limits control and car-following control with vehicle-infrastructure communication to resolve stop-and-go waves. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2016**, 20, 559-572	3.2	72
81	Game theoretic approach for predictive lane-changing and car-following control. *Transportation Research Part C: Emerging Technologies*, **2015**, 58, 73-92	8.4	162
80	Mitigating Congestion at Sags with Adaptive Cruise Control Systems **2015**,		9
79	Empirical Longitudinal Driving Behavior in Authority Transitions between Adaptive Cruise Control and Manual Driving. *Transportation Research Record*, **2015**, 2489, 105-114	1.7	19
78	Valuation of Travel Attributes for Using Automated Vehicles as Egress Transport of Multimodal Train Trips. *Transportation Research Procedia*, **2015**, 10, 462-471	2.4	13
77	The Deployment of Advanced Driver Assistance Systems in Europe. *SSRN Electronic Journal*, **2015**,	1	17

76	Evaluating Awareness and Perception of Waiting Time at Signalized Intersections: Field Study. *Transportation Research Record*, **2015**, 2518, 86-94	1.7	2
75	Improving the road network performance with dynamic route guidance by considering the indifference band of road users. *IET Intelligent Transport Systems*, **2015**, 9, 897-906	2.4	9
74	A family of macroscopic node models. *Transportation Research Part B: Methodological*, **2015**, 74, 20-39	7.2	21
73	Rolling horizon control framework for driver assistance systems. Part II: Cooperative sensing and cooperative control. *Transportation Research Part C: Emerging Technologies*, **2014**, 40, 290-311	8.4	163
72	Empirical analysis of heterogeneous traffic flow and calibration of porous flow model. *Transportation Research Part C: Emerging Technologies*, **2014**, 48, 418-436	8.4	22
71	Perception bias in route choice. *Transportation*, **2014**, 41, 1305-1321	4	13
70	Improving Traffic Flow Efficiency by In-Car Advice on Lane, Speed, and Headway. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 15, 1597-1606	6.1	59
69	Rolling horizon control framework for driver assistance systems. Part I: Mathematical formulation and non-cooperative systems. *Transportation Research Part C: Emerging Technologies*, **2014**, 40, 271-289	8.4	118
68	Mainstream Traffic Flow Control at Sags. *Transportation Research Record*, **2014**, 2470, 57-64	1.7	15
67	Potential impacts of ecological adaptive cruise control systems on traffic and environment. *IET Intelligent Transport Systems*, **2014**, 8, 77-86	2.4	30
66	Empirical analysis of the causes of stop-and-go waves at sags. *IET Intelligent Transport Systems*, **2014**, 8, 499-506	2.4	17
65	Investigating the effects of improving public transport system linkage to spatial strategy on controlling urban sprawl: evidence from Surabaya City, Indonesia **2014**,		3
64	Modelling Supported Driving as an Optimal Control Cycle: Framework and Model Characteristics. *Procedia, Social and Behavioral Sciences*, **2013**, 80, 491-511		10
63	Microscopic Traffic Flow Properties in Emergency Situations. *Transportation Research Record*, **2013**, 2391, 124-132	1.7	2
62	A modular approach for exchangeable driving task models in a microscopic simulation framework **2013**,		4
61	Longitudinal driving behavior in case of emergency situations: An empirically underpinned theoretical framework. *Transportation Research Part C: Emerging Technologies*, **2013**, 36, 581-603	8.4	7
60	Modelling supported driving as an optimal control cycle: Framework and model characteristics. *Transportation Research Part C: Emerging Technologies*, **2013**, 36, 547-563	8.4	28
59	Driver workload classification through neural network modeling using physiological indicators **2013** ,		1

58	Effective traffic management based on bounded rationality and indifference bands. *IET Intelligent Transport Systems*, **2013**, 7, 265-274	2.4	5
57	Single Frequency Precise Point Positioning: Obtaining a map accurate to lane-level **2013**,		4
56	Incorporating driver distraction in car-following models: Applying the TCI to the IDM **2013**,		5
55	A cooperative system based variable speed limit control algorithm against jam waves - an extension of the SPECIALIST algorithm **2013**,		11
54	Reducing local traffic emissions at urban intersection using ITS countermeasures. *IET Intelligent Transport Systems*, **2013**, 7, 78-86	2.4	11
53	Delays Caused by Incidents: Data-Driven Approach. *Transportation Research Record*, **2013**, 2333, 1-8	1.7	15
52	Drivers' Perception of Route Alternatives as Indicator for the Indifference Band. *Transportation Research Record*, **2013**, 2383, 10-17	1.7	9
51	Lane Change and Overtaking Collisions: Causes and Avoidance Techniques **2013**, 143-187		6
50	User Needs in Green ITS: Results of a Questionnaire Survey and Proposal for Green ITS Design. *International Journal of Intelligent Transportation Systems Research*, **2012**, 10, 47-55	1.4	3
49	. *IEEE Transactions on Intelligent Transportation Systems*, **2012**, 13, 1525-1534	6.1	7
48	Driver support and cooperative systems control design: Framework and preliminary results **2012**,		4
47	Reducing congestion at uphill freeway sections by means of a Gradient Compensation System **2012** ,		4
46	The effect of vehicle acceleration near traffic congestion fronts **2012**,		1
45	Automated lane identification using precise point positioning an affordable and accurate GPS technique **2012**,		10
44	A Context Aware Intelligent Speed Adaptation system: A Field Operational Test **2012**,		2
43	Driver assistance systems modeling by model predictive control **2012**,		13
42	Analytically Derived versus Numerically Derived Urban Transit Guidelines: Case Study of Utrecht, Netherlands. *Transportation Research Record*, **2012**, 2274, 93-99	1.7	
41	Integrated Lane Change Model with Relaxation and Synchronization. *Transportation Research Record*, **2012**, 2316, 47-57	1.7	108

40	A Neurofuzzy Approach to Modeling Longitudinal Driving Behavior and Driving Task Complexity. *International Journal of Vehicular Technology*, **2012**, 2012, 1-12		2
39	Simulation Approaches to Intelligent Vehicles **2012**, 139-163		
38	A Strategic Approach to Intelligent Functions in Vehicles **2012**, 17-29		5
37	Estimating Acceleration, Fuel Consumption, and Emissions from Macroscopic Traffic Flow Data. *Transportation Research Record*, **2011**, 2260, 123-132	1.7	11
36	Microscopic dynamic traffic management: Simulation of two typical situations **2011**,		12
35	Eco-routing: Comparing the fuel consumption of different routes between an origin and destination using field test speed profiles and synthetic speed profiles **2011**,		38
34	Reducing time delays on congested road networks using social navigation **2011**,		7
33	Toward effective strategies for energy efficient network management **2010**,		1
32	MOBYSIM: An integrated traffic simulation platform **2010**,		6
31	Energy efficient traffic management and control - the eCoMove approach and expected benefits **2010**,		21
30	The accuracy and timing of pedestrian warnings at intersections: The acceptance from drivers and their preferences **2010**,		6
29	The Impact of a Congestion Assistant on Traffic Flow Efficiency and Safety in Congested Traffic Caused by a Lane Drop. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*, **2010**, 14, 197-208	3.2	26
28	Driver and Vehicle Characteristics and Platoon and Traffic Flow Stability: Understanding the Relationship for Design and Assessment of Cooperative Adaptive Cruise Control. *Transportation Research Record*, **2010**, 2189, 89-97	1.7	44
27	Demand modeling of innovative transport system PRT at the Rotterdam port area **2010**,		1
26	Effects of Cooperative Adaptive Cruise Control on traffic flow stability **2010**,		108
25	The impacts of a communication based merging assistant on traffic flows of manual and equipped vehicles at an on-ramp using traffic flow simulation **2010**,		37
24	Lane distribution of traffic near merging zones influence of variable speed limits **2010**,		45
23	Assessment of safety levels and an innovative design for the Lane Change Assistant **2010**,		8

22	Economic Incentives to Influence Drivers' Route Choices for Safety Enhancement: A Win□Win Situation. *Transportation Research Record*, **2010**, 2187, 76-84	1.7	3
21	A new scenario based approach for designing driver support systems applied to the design of a lane change support system. *Transportation Research Part C: Emerging Technologies*, **2010**, 18, 247-258	8.4	19
20	Driving with a Congestion Assistant; mental workload and acceptance. *Applied Ergonomics*, **2009**, 40, 1019-25	4.2	66
19	Continuous Traffic Flow Modeling of Driver Support Systems in Multiclass Traffic With Intervehicle Communication and Drivers in the Loop. *IEEE Transactions on Intelligent Transportation Systems*, **2009**, 10, 649-657	6.1	18
18	Drivers' reactions to sudden braking by lead car under varying workload conditions; towards a driver support system. *IET Intelligent Transport Systems*, **2008**, 2, 249	2.4	7
17	Speed and acceleration distributions at a traffic signal analyzed from microscopic real and simulated data **2008**,		11
16	A Review of Lateral Driver Support Systems **2007**,		28
15	Drivers□Preferences for Traffic Information for Nonrecurrent Traffic Situations. *Transportation Research Record*, **2007**, 2018, 72-79	1.7	9
14	Impacts of a Congestion Assistant on driving behaviour and acceptance using a driving simulator. *Transportation Research Part F: Traffic Psychology and Behaviour*, **2007**, 10, 139-152	4.5	48
13	Traffic flow effects of Integrated full-Range Speed Assistance (IRSA). *Intelligent Vehicles Symposium, 2009 IEEE*, **2007**,		22
12	The Impact of Cooperative Adaptive Cruise Control on Traffic-Flow Characteristics. *IEEE Transactions on Intelligent Transportation Systems*, **2006**, 7, 429-436	6.1	832
11	Gas-Kinetic Traffic Flow Modeling Including Continuous Driver Behavior Models. *Transportation Research Record*, **2003**, 1852, 231-238	1.7	18
10	The Development of Automated Vehicle Guidance Systems - Commonalities and Differences Between the State of California and the Netherlands **1997**,		2
9	Analysis of a queuing model for slotted ring networks. *Computer Networks*, **1990**, 20, 309-314		4
8	Queueing analysis of a discrete closed-loop conveyor with service facilities. *Queueing Systems*, **1989** , 4, 95-114	1.7	4
7	Discrete time analysis of a slotted transmission system. *Computers and Operations Research*, **1989**, 16, 101-111	4.6	4
6	Modelling traffic flows with intelligent cars and intelligent roads		13
5	Traffic flow theory and its applications in automated vehicle control: a review		3

4	Vehicle automation and transport system performance498-516		4
3	Simulating Cooperative Vehicle-to-Infrastructure Systems: A Multi-Aspect Assessment Tool Suite203-226		
2	A flock-like two-dimensional cooperative vehicle formation model based on potential functions. *Transportmetrica B*,1-22	1.8	2
1	Herd immunity for traffic safety in mixed automated traffic: what if cars could not crash!?. *Transportation Letters*,1-12	2.1	