

Gonçalo Homem de Almeida Correia

List of Publications by Year in descending order

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103
papers

6,291
citations

94433

37
h-index

74163

75
g-index

106
all docs

106
docs citations

106
times ranked

3963
citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Cooperative Adaptive Cruise Control on Traffic-Flow Characteristics. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 429-436.	8.0	1,128
2	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.	4.2	582
3	Optimization approach to depot location and trip selection in one-way carsharing systems. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 233-247.	7.4	284
4	Acceptance of Driverless Vehicles: Results from a Large Cross-National Questionnaire Study. Journal of Advanced Transportation, 2018, 2018, 1-22.	1.7	200
5	Comparing Optimal Relocation Operations With Simulated Relocation Policies in One-Way Carsharing Systems. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1667-1675.	8.0	171
6	User acceptance of automated shuttles in Berlin-Schöneberg: A questionnaire study. Transportation Research Part F: Traffic Psychology and Behaviour, 2018, 58, 843-854.	3.7	166
7	Trip pricing of one-way station-based carsharing networks with zone and time of day price variations. Transportation Research Part B: Methodological, 2015, 81, 461-482.	5.9	153
8	Effects of Cooperative Adaptive Cruise Control on traffic flow stability. , 2010, , .		149
9	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.	4.2	141
10	Transit-oriented development: A review of research achievements and challenges. Transportation Research, Part A: Policy and Practice, 2020, 132, 110-130.	4.2	132
11	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.	5.9	128
12	A multi-level model on automated vehicle acceptance (MAVA): a review-based study. Theoretical Issues in Ergonomics Science, 2019, 20, 682-710.	1.8	119
13	Carpooling and carpool clubs: Clarifying concepts and assessing value enhancement possibilities through a Stated Preference web survey in Lisbon, Portugal. Transportation Research, Part A: Policy and Practice, 2011, 45, 81-90.	4.2	112
14	Exploring the use of automated vehicles as last mile connection of train trips through an agent-based simulation model: An application to Delft, Netherlands. International Journal of Transportation Science and Technology, 2017, 6, 28-41.	3.6	112
15	An agent-based simulation model to assess the impacts of introducing a shared-taxi system: an application to Lisbon (Portugal). Journal of Advanced Transportation, 2015, 49, 475-495.	1.7	105
16	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.	7.6	103
17	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.	7.4	101
18	Solving the station-based one-way carsharing network planning problem with relocations and non-linear demand. Transportation Research Part C: Emerging Technologies, 2018, 90, 1-17.	7.6	100

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19	A MIP model for locating slow-charging stations for electric vehicles in urban areas accounting for driver tours. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2015, 75, 188-201.	7.4	99
20	Exploring the Performance of Different On-Demand Transit Services Provided by a Fleet of Shared Automated Vehicles: An Agent-Based Model. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-16.	1.7	89
21	The Added Value of Accounting For Users' Flexibility and Information on the Potential of a Station-Based One-Way Car-Sharing System: An Application in Lisbon, Portugal. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2014, 18, 299-308.	4.2	88
22	Improving Traffic Flow Efficiency by In-Car Advice on Lane, Speed, and Headway. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 1597-1606.	8.0	70
23	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. <i>Transportation Research, Part A: Policy and Practice</i> , 2019, 119, 359-382.	4.2	69
24	Automated taxis' dial-a-ride problem with ride-sharing considering congestion-based dynamic travel times. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 112, 260-281.	7.6	69
25	Electric carsharing and micromobility: A literature review on their usage pattern, demand, and potential impacts. <i>International Journal of Sustainable Transportation</i> , 2022, 16, 269-286.	4.1	69
26	Intelligent road traffic status detection system through cellular networks handover information: An exploratory study. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 32, 76-88.	7.6	66
27	Insights into carsharing demand dynamics: Outputs of an agent-based model application to Lisbon, Portugal. <i>International Journal of Sustainable Transportation</i> , 2017, 11, 148-159.	4.1	63
28	Planning station capacity and fleet size of one-way electric carsharing systems with continuous state of charge functions. <i>European Journal of Operational Research</i> , 2020, 287, 1075-1091.	5.7	60
29	Using metro smart card data to model location choice of after-work activities: An application to Shanghai. <i>Journal of Transport Geography</i> , 2017, 63, 40-47.	5.0	58
30	Assessing the viability of enabling a round-trip carsharing system to accept one-way trips: Application to Logan Airport in Boston. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 56, 359-372.	7.6	50
31	Analysis of the effect of charging needs on battery electric vehicle drivers' route choice behaviour: A case study in the Netherlands. <i>Transportation Research, Part D: Transport and Environment</i> , 2020, 78, 102206.	6.8	50
32	Performance analysis and fleet requirements of automated demand-responsive transport systems as an urban public transport service. <i>International Journal of Transportation Science and Technology</i> , 2018, 7, 151-167.	3.6	49
33	Environmental and financial impacts of adopting alternative vehicle technologies and relocation strategies in station-based one-way carsharing: An application in the city of Lisbon, Portugal. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 57, 350-362.	6.8	46
34	Pedestrians' road crossing behaviour in front of automated vehicles: Results from a pedestrian simulation experiment using agent-based modelling. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 69, 101-119.	3.7	46
35	Impact of Automated Vehicles on Travel Mode Preference for Different Trip Purposes and Distances. <i>Transportation Research Record</i> , 2019, 2673, 607-616.	1.9	44
36	Testing the Validity of the MIP Approach for Locating Carsharing Stations in One-way Systems. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 54, 138-148.	0.5	41

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37	Incorporating the travellers' experience value in assessing the quality of transit nodes: A Rotterdam case study. <i>Case Studies on Transport Policy</i> , 2018, 6, 564-576.	2.5	40
38	Design and operation of dedicated lanes for connected and automated vehicles on motorways: A conceptual framework and research agenda. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102664.	7.6	40
39	Long-term vehicle reservations in one-way free-floating carsharing systems: A variable quality of service model. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 98, 298-322.	7.6	39
40	Understanding travellers' preferences for different types of trip destination based on mobile internet usage data. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 90, 247-259.	7.6	38
41	Using latent attitudinal variables estimated through a structural equations model for understanding carpooling propensity. <i>Transportation Planning and Technology</i> , 2013, 36, 499-519.	2.0	37
42	Designing an Automated Demand-Responsive Transport System: Fleet Size and Performance Analysis for a Campus' Train Station Service. <i>Transportation Research Record</i> , 2016, 2542, 75-83.	1.9	37
43	Opportunities for integration between Mobility as a Service (MaaS) and freight transport: A conceptual model. <i>Sustainable Cities and Society</i> , 2021, 74, 103212.	10.4	36
44	Exploring cellular network handover information for urban mobility analysis. <i>Journal of Transport Geography</i> , 2013, 31, 164-170.	5.0	34
45	Analysis of the pattern and intensity of urban activities through aggregate cellphone usage. <i>Transportmetrica A: Transport Science</i> , 2015, 11, 502-524.	2.0	33
46	An Explanatory Model Approach for the Spatial Distribution of Free-Floating Carsharing Bookings: A Case-Study of German Cities. <i>Sustainability</i> , 2017, 9, 1290.	3.2	32
47	The Impact of a Congestion Assistant on Traffic Flow Efficiency and Safety in Congested Traffic Caused by a Lane Drop. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2010, 14, 197-208.	4.2	30
48	Finding the relevance of staff-based vehicle relocations in one-way carsharing systems through the use of a simulation-based optimization tool. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2019, 23, 583-604.	4.2	30
49	Understanding ride-sourcing drivers' behaviour and preferences: Insights from focus groups analysis. <i>Research in Transportation Business and Management</i> , 2020, 37, 100516.	2.9	29
50	Assessing the impacts of shared autonomous vehicles on congestion and curb use: A traffic simulation study in The Hague, Netherlands. <i>International Journal of Transportation Science and Technology</i> , 2020, 9, 195-206.	3.6	28
51	The impact of a dedicated lane for connected and automated vehicles on the behaviour of drivers of manual vehicles. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 82, 141-153.	3.7	28
52	Continuous Traffic Flow Modeling of Driver Support Systems in Multiclass Traffic With Intervehicle Communication and Drivers in the Loop. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2009, 10, 649-657.	8.0	25
53	Simulating Carsharing Operations through Agent-based Modelling: An Application to the City of Lisbon, Portugal. <i>Transportation Research Procedia</i> , 2014, 3, 828-837.	1.5	25
54	The Deployment of Advanced Driver Assistance Systems in Europe. <i>SSRN Electronic Journal</i> , 0, , .	0.4	25

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55	Relocating shared automated vehicles under parking constraints: assessing the impact of different strategies for on-street parking. <i>Transportation</i> , 2021, 48, 1931-1965.	4.0	25
56	A MIP Model to Optimize Real Time Maintenance and Relocation Operations in One-way Carsharing Systems. <i>Transportation Research Procedia</i> , 2015, 10, 384-392.	1.5	22
57	Passenger opinions of the perceived safety and interaction with automated shuttles: A test ride study with a "hidden" safety steward. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 138, 508-524.	4.2	22
58	An innovative approach to solve the carsharing demand-supply imbalance problem under demand uncertainty. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 132, 103369.	7.6	22
59	Valuation of Travel Attributes for Using Automated Vehicles as Egress Transport of Multimodal Train Trips. <i>Transportation Research Procedia</i> , 2015, 10, 462-471.	1.5	21
60	A conceptual model for carpooling systems simulation. <i>Journal of Simulation</i> , 2009, 3, 61-68.	1.5	19
61	The Reversible Lane Network Design Problem (RL-NDP) for Smart Cities with Automated Traffic. <i>Sustainability</i> , 2020, 12, 1226.	3.2	19
62	Descriptive modeling of freight tour formation: A shipment-based approach. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2020, 140, 101989.	7.4	19
63	Evaluation Methods for the Impacts of Shared Mobility: Classification and Critical Review. <i>Sustainability</i> , 2020, 12, 10504.	3.2	18
64	Longitudinal macro-analysis of car-use changes resulting from a TOD-type project: The case of Metro do Porto (Portugal). <i>Journal of Transport Geography</i> , 2021, 92, 103036.	5.0	18
65	Dynamic planning for simultaneous recharging and relocation of shared electric taxis: A sequential MILP approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 125, 102933.	7.6	18
66	Applying a Model for Trip Assignment and Dynamic Routing of Automated Taxis with Congestion: System Performance in the City of Delft, The Netherlands. <i>Transportation Research Record</i> , 2018, 2672, 588-598.	1.9	17
67	Fixed-Route vs. Demand-Responsive Transport Feeder Services: An Exploratory Study Using an Agent-Based Model. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-20.	1.7	17
68	Applying a structured simulation-based methodology to assess carpooling time-space potential. <i>Transportation Planning and Technology</i> , 2010, 33, 515-540.	2.0	16
69	Interrelationships among predictors of automated vehicle acceptance: a structural equation modelling approach. <i>Theoretical Issues in Ergonomics Science</i> , 0, , 1-26.	1.8	16
70	Performance of one-way carsharing systems under combined strategy of pricing and relocations. <i>Transportmetrica B</i> , 2021, 9, 134-152.	2.3	16
71	A cooperative strategy for optimizing vehicle relocations and staff movements in cities where several carsharing companies operate simultaneously. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2022, 161, 102711.	7.4	16
72	Review of Whole System Simulation Methodologies for Assessing Mobility as a Service (MaaS) as an Enabler for Sustainable Urban Mobility. <i>Sustainability</i> , 2021, 13, 5591.	3.2	15

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73	Relocating operational and damaged bikes in free-floating systems: A data-driven modeling framework for level of service enhancement. <i>Transportation Research, Part A: Policy and Practice</i> , 2021, 153, 235-260.	4.2	15
74	Operationalizing an indicator of sufficient accessibility – a case study for the city of Rotterdam. <i>Case Studies on Transport Policy</i> , 2020, 8, 1360-1370.	2.5	14
75	Freight Transport Decarbonization: A Systematic Literature Review of System Dynamics Models. <i>Sustainability</i> , 2022, 14, 3625.	3.2	14
76	Spatial impact of automated driving in urban areas. <i>Journal of Simulation</i> , 2020, 14, 295-303.	1.5	13
77	Optimizing Road Networks for Automated Vehicles with Dedicated Links, Dedicated Lanes, and Mixed-Traffic Subnetworks. <i>Journal of Advanced Transportation</i> , 2021, 2021, 1-17.	1.7	12
78	Designing a Network of Electric Charging Stations to Mitigate Vehicle Emissions. , 2020, , .		12
79	A mathematical programming model for optimal fleet management of electric car-sharing systems with Vehicle-to-Grid operations. <i>Journal of Cleaner Production</i> , 2022, 368, 133147.	9.3	12
80	Setting Speed Limits on Rural Two-Lane Highways by Modeling the Relationship between Expert Judgment and Measurable Roadside Characteristics. <i>Journal of Transportation Engineering</i> , 2011, 137, 184-192.	0.9	11
81	Optimizing the Use of Electric Vehicles in a Regional Car Rental Fleet. <i>Transportation Research Record</i> , 2014, 2454, 76-83.	1.9	11
82	Effects of Coordinated Formation of Vehicle Platooning in a Fleet of Shared Automated Vehicles: An Agent-based model. <i>Transportation Research Procedia</i> , 2020, 47, 377-384.	1.5	11
83	Modeling Location Choice of Taxi Drivers for Passenger Pickup Using GPS Data. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2021, 13, 70-90.	3.8	11
84	A flow-based integer programming approach to design an interurban shared automated vehicle system and assess its financial viability. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 128, 103092.	7.6	11
85	Life cycle assessment of shared and private use of automated and electric vehicles on interurban mobility. <i>Applied Energy</i> , 2022, 310, 118589.	10.1	11
86	eHUBs – Identifying the potential early and late adopters of shared electric mobility hubs. <i>International Journal of Sustainable Transportation</i> , 2023, 17, 199-218.	4.1	11
87	Electric Vehicles Charging Network Planning. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 85-100.	0.6	10
88	The deployment of automated vehicles in urban transport systems: a methodology to design dedicated zones. <i>Transportation Research Procedia</i> , 2017, 27, 230-237.	1.5	10
89	A Network-Based Model of Passenger Transfer Flow between Bus and Metro: An Application to the Public Transport System of Beijing. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-12.	1.7	8
90	Exact Formulation and Comparison Between the User Optimum and System Optimum Solution for Routing Privately Owned Automated Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 4567-4578.	8.0	7

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91	Road Network Design in a Developing Country Using Mobile Phone Data: An Application to Senegal. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 36-49.	3.8	7
92	Building Automation into Urban and Metropolitan Mobility Planning. Lecture Notes in Mobility, 2019, , 123-136.	0.2	6
93	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 “ A comment. Transportation Research, Part A: Policy and Practice, 2020, 132, 324-328.	4.2	6
94	An optimization model for vehicle routing of automated taxi trips with dynamic travel times. Transportation Research Procedia, 2017, 27, 736-743.	1.5	5
95	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.	1.5	4
96	Explanatory and Causal Analysis of the MIBEL Electricity Market Spot Price. , 2019, , .		4
97	Multi-stage optimal design of road networks for automated vehicles with elastic multi-class demand. Computers and Operations Research, 2021, 136, 105483.	4.0	4
98	Potential of peer-to-peer bike sharing for relieving bike parking capacity shortage at train stations: an explorative analysis for the Netherlands. , 2018, 18, .		4
99	Adoption of Shared Automated Vehicles as Access and Egress Mode of Public Transport: A Research Agenda. , 2020, , .		2
100	Automated vehicles (AV) dedicated networks and their effects on the traveling of conventional vehicle drivers. Transportation Research Procedia, 2021, 52, 653-660.	1.5	1
101	An optimal charging location model of an automated electric taxi system considering two types of charging. , 2020, , .		1
102	Stochastic and dynamic routing with flexible deliveries for an e-grocer. , 2021, , .		0
103	The Multi-period Petrol Station Replenishment Problem: Formulation and Solution Methods. Lecture Notes in Computer Science, 2020, , 600-615.	1.3	0