# Marcello Montanino

List of Publications by Year
in descending order

| 24 papers | 1,335 citations | 430843<br>18 h-index | 713444<br>21 g-index |
|---|---|---|---|
| 24 all docs | 24 docs citations | 24 times ranked | 949 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Trajectory data reconstruction and simulation-based validation against macroscopic traffic patterns. Transportation Research Part B: Methodological, 2015, 80, 82-106. | 5.9 | 212 |
| 2 | A new look at planning and designing transportation systems: A decision-making model based on cognitive rationality, stakeholder engagement and quantitative methods. Transport Policy, 2015, 38, 27-39. | 6.6 | 149 |
| 3 | Making NGSIM Data Usable for Studies on Traffic Flow Theory. Transportation Research Record, 2013, 2390, 99-111. | 1.9 | 127 |
| 4 | Can Results of car-following Model Calibration Based on Trajectory Data be Trusted?. Transportation Research Record, 2012, 2315, 11-24. | 1.9 | 95 |
| 5 | Do We Really Need to Calibrate All the Parameters? Variance-Based Sensitivity Analysis to Simplify Microscopic Traffic Flow Models. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 184-193. | 8.0 | 88 |
| 6 | A behavioral model of accessibility based on the number of available opportunities. Journal of Transport Geography, 2016, 51, 45-58. | 5.0 | 69 |
| 7 | Thirty Years of Gipps' Car-Following Model. Transportation Research Record, 2012, 2315, 89-99. | 1.9 | 66 |
| 8 | On string stability of a mixed and heterogeneous traffic flow: A unifying modelling framework. Transportation Research Part B: Methodological, 2021, 144, 133-154. | 5.9 | 64 |
| 9 | About calibration of car-following dynamics of automated and human-driven vehicles: Methodology, guidelines and codes. Transportation Research Part C: Emerging Technologies, 2021, 128, 103165. | 7.6 | 63 |
| 10 | Speed or spacing? Cumulative variables, and convolution of model errors and time in traffic flow models validation and calibration. Transportation Research Part B: Methodological, 2016, 91, 21-33. | 5.9 | 59 |
| 11 | A New Measure of Accessibility based on Perceived Opportunities. Procedia, Social and Behavioral Sciences, 2013, 87, 117-132. | 0.5 | 47 |
| 12 | From homogeneous to heterogeneous traffic flows: $\mathcal{L}\mathbf{p}$ String stability under uncertain model parameters. Transportation Research Part B: Methodological, 2021, 146, 136-154. | 5.9 | 46 |
| 13 | Does traffic-related calibration of car-following models provide accurate estimations of vehicle emissions?. Transportation Research, Part D: Transport and Environment, 2015, 34, 267-280. | 6.8 | 43 |
| 14 | Point-to-point speed enforcement systems: Speed limits design criteria and analysis of drivers' compliance. Transportation Research Part C: Emerging Technologies, 2015, 53, 1-18. | 7.6 | 37 |
| 15 | Gaussian Process Metamodels for Sensitivity Analysis of Traffic Simulation Models. Transportation Research Record, 2013, 2390, 87-98. | 1.9 | 33 |
| 16 | Global sensitivity analysis techniques to simplify the calibration of traffic simulation models. Methodology and application to the IDM car-following model. IET Intelligent Transport Systems, 2014, 8, 479-489. | 3.0 | 29 |
| 17 | A two-level probabilistic approach for validation of stochastic traffic simulations: impact of drivers' heterogeneity models. Transportation Research Part C: Emerging Technologies, 2020, 121, 102843. | 7.6 | 27 |
| 18 | Energy Consumption Modeling in Presence of Uncertainty. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6330-6341. | 8.0 | 20 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Physics-augmented models to simulate commercial adaptive cruise control (ACC) systems. Transportation Research Part C: Emerging Technologies, 2022, 139, 103692. | 7.6 | 16 |
| 20 | Empirical Analysis of Effects of Automated Section Speed Enforcement System on Traffic Flow at Freeway Bottlenecks. Transportation Research Record, 2011, 2260, 83-93. | 1.9 | 15 |
| 21 | Microscopic energy consumption modelling of electric buses: model development, calibration, and validation. Transportation Research, Part D: Transport and Environment, 2021, 98, 102978. | 6.8 | 15 |
| 22 | Calibration of microscopic traffic flow models against time-series data. , 2012, , . | | 10 |
| 23 | CoNL route choice model: numerical assessment on a real dataset of trajectories. , 2019, , . | | 4 |
| 24 | Notice of Removal: Parameter sampling strategies in traffic microsimulation. , 2015, , . | | 1 |