

Spoke 9 – Digital Society & Smart Cities

Publication list

[1]

2023 Mariaelena Berlotti, Sarah Di Grande, Salvatore Cavalieri, Vincenza Torrisi, and Giuseppe Inturri, **Proposal of an AI-based approach for Urban Traffic Prediction from Mobility Data**, IEEE International Conference on Big Data (IEEE BigData 2023), Sorrento, Italy, December 15-18 2023, DOI: <https://ieeexplore.ieee.org/document/10386509>

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2023 Yaqoob, S.; Cafiso, S.; Morabito, G.; Pappalardo, G., **Anomalous Driver Behaviour Detection through Deep Transfer Learning**, 35th ICTCT Conference “Challenges and actual opportunities offered by new technologies to improve traffic safety”, Catania, 26-27 October 2023 (award as best poster presentation), https://www.ictct.net/wp-content/uploads/35-Catania-2023/ICTCT_Catania_2023_abstract_53.pdf

[3]

2023 Pappalardo, G.; Kchour, F.; Giudice, O.; Leotta, R.; Battiato, S. Cafiso, S.; Wachnicka, J., **Visual attention and riding behaviour of e-scooter and cyclist users in shared paths – system development and in field experiment**, 11th International Cycling Safety Conference, 15-17 November 2023, The Hague, the Netherlands, <https://hdl.handle.net/20.500.11769/643232>

[4]

2024 Mariaelena Berlotti, Sarah Di Grande, Salvatore Cavalieri, **AI-Powered Urban Mobility Analysis for Advanced Traffic Flow Forecasting**, International Conference on Smart Cities and Green ICT Systems, SMARTGREENS, <https://www.scitepress.org/PublicationsDetail.aspx?ID=A1t4fzh3Pjo=&t=1>

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2024 Mariaelena Berlotti, Sarah Di Grande, Salvatore Cavalieri, **Proposal of a Machine Learning Approach for Traffic Flow Prediction**, Sensors, 2024, 24(7), 2348, DOI: <https://doi.org/10.3390/s24072348>

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2024 Thamires De Souza Oliveira, Sarah Di Grande, Mariaelena Berlotti, Salvatore Cavalieri, Vincenza Torrisi, Giovanni Calabrò, Giuseppe Inturri, **Enhancing Urban Traffic Management through Machine Learning Prediction Models for Sensor-less Roads**, 2024 8th International Conference on Intelligent Traffic and Transportation (ICITT), https://www.researchgate.net/publication/387043146_Enhancing_Urban_Traffic_Management_Through_Machine_Learning_Prediction_Models_for_Sensor-Less_Roads

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2024 Calabrò G., Le Pira M., Inturri G., Cavalieri S. and Ignaccolo M., **Measuring the readiness to become a “30 km/h city**, TIS Roma 2024, <https://hdl.handle.net/20.500.11769/642394>



2024 Torrisi V., Calabrò G., Inturri G., Cavalieri S., **Exploring the reliability of Floating Car Data (FCD) for traffic prediction application**, TIS Roma 2024, <https://hdl.handle.net/20.500.11769/642395>

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2024 Yaqoob, S.; Cafiso, S.; Morabito, G.; Pappalardo, G., A. Ullah, **AI-Driven Driver Behavior Assessment Through Vehicle and Health Monitoring for Safe Driving—A Survey**, IEEE AccessOpen AccessVolume 12, Pages 48044 – 48056, <https://ieeexplore.ieee.org/document/10486888/metrics#metrics>

[9]

2024 Pappalardo, G.; Kchour, F., Yaghoobloo, Z., Ghaderi, O., Cafiso, S.; Giudice, O.; Leotta, R.; Battiato, S., **Understanding Urban Environmental Impact on Cyclist Visual Load: A Machine Learning Application**, 36th ICTCT Conference “Inclusive and interdisciplinary road safety research”, The Hague, 17-18 October 2024, https://www.ictct.net/wp-content/uploads/36-Hague-2024/ICTCT2024_paper_100.pdf

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2024 D. Krishnan *et al.*, "Driving Style Profiling Using Deep Autoencoders for Safety Applications in Urban and Highway Scenarios," 2024 *IEEE International Symposium on Measurements & Networking (M&N)*, Rome, Italy, 2024, pp. 1-6, <https://ieeexplore.ieee.org/document/10615387>

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2024 J.S. Mertens, S. Cafiso, L. Galluccio, G. Morabito, G. Pappalardo, **Cooperative learning by knowledge transfer in vehicular networks for applications with user-environment interactions**, 7th International Balkan Conference on Communications and Networking, BalkanCom, Ljubljana 3-6 June 2024, https://www.researchgate.net/publication/381534927_Cooperative_learning_by_knowledge_transfer_in_vehicular_networks_for_applications_with_user-environment_interactions

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2024 O. Ghaderi, S. Cafiso, R. Caponnetto, G. Pappalardo, **Sensitivity analysis of bicycle characteristics for pavement roughness monitoring by vibration data**, Science & Cycling, Florence 26-27 June 2024, <https://science-cycling.org/wp-content/uploads/2024/07/Giuseppa-Pappalardo-ppt.pdf>

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2024 Z. Yaghoobloo, G. Pappalardo, S. Cafiso, F. Kchour, M. Mangiameli, G. Mussumeci, **Utilizing Spatial Analysis, How Can Data On Urban And Environmental Elements Be Extracted To Assess Their Impact On Bicycle User Behavior?**, Geomatics Approaches for environmental surveying and modelling, ICNAAM 2024, 22nd International Conference of Numerical Analysis and Applied Mathematics, Heraklion (Crete), 11-17 September 2024, <https://hdl.handle.net/20.500.11769/643230>

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2024 Pappalardo, G.; Kchour, F., Yaghoobloo, Z., Ghaderi, O., Cafiso, S.; Giudice, O.; Leotta, R.; Battiato, S., **Cyclist Visual Workload in Real Traffic – Analysis of the Urban Environment**



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Factors Using Machine Learning, 12th International Cycling Safety Conference, 5-7 November 2024, Imabari, Japan, <https://hdl.handle.net/20.500.11769/643231>