



Editorial

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The present issue of Transactions on Transport Sciences reflects the rich diversity and the evolving priorities of contemporary transport research. As cities worldwide strive to address the pressing challenges of urban mobility, safety, congestion, and sustainability, researchers are continuously expanding the boundaries of knowledge, offering novel insights and practical solutions. The studies presented in this issue span a broad thematic spectrum, addressing traditional and emerging transport modes, behavioural aspects, and infrastructural challenges, with a remarkable geographic variety ranging from Europe to Asia.

Understanding urban mobility patterns remains a key concern, as demonstrated by the paper by Bertrand Jouve, Paul Rochet, and Mohamadou Salifou, who offer a comparative study of gravity models for urban bicycle mobility, emphasizing methodological robustness in the context of bike-sharing systems. Rizka Dimas Fitriani and Agus Darmawan explore the impact of countdown timers with running text at signalized intersections, providing new empirical insights into their influence on driving behaviour and intersection efficiency. In a complementary study, Supiyono, Ludfi Djakfar, and Achmad Wicaksono further investigate drivers' behavioural responses to countdown timers in Indonesia, highlighting the complexity of driver decision-making and the potential risks associated with timer installations.

Public transport satisfaction, a crucial factor in modal shift and sustainable urban development, is the subject of Rupas Kumar Meesala and M.V. Raju's comprehensive study across three major Indian megacities. Their findings offer valuable guidance for enhancing public transport systems to better meet user expectations. Similarly, traffic congestion related to infrastructure design is addressed by Malaya Mohanty, Satya Ranjan Samal, and J. Cyril Santhosh, who propose a novel congestion severity index for speed humps based on travel time reliability metrics and clustering techniques, offering practical implications for traffic management.

Micromobility, a rising phenomenon in urban transport ecosystems, is critically examined by Tiziana Campisi and colleagues, who assess youth awareness of e-scooter regulations in Sicily. Their findings underline the importance of targeted educational campaigns to support the safe integration of new mobility modes. Complementarily, the study by Raju Bhele and Bishnu Prasad Devkota on dwell time variability at bus bays in Nepal highlights the influence of passenger characteristics on transit efficiency, providing actionable insights for operational improvements. Finally, Elisabeta Drimlová and Matúš Šucha contribute a unique perspective by examining how traffic education is implemented in Czech primary schools, advocating for a stronger integration of environmental and experiential learning components.

We are pleased to present this collection of studies that together highlight critical aspects of transportation science: from behavioural patterns and infrastructure impacts to educational strategies and regulatory frameworks. We thank all the authors for their valuable contributions and the reviewers

for their meticulous work in ensuring the high quality of this issue. We hope that the findings and discussions presented here will inspire further research and foster collaboration across disciplines and borders.