

**103rd Annual Meeting of the Transportation Research Board
Standing Committee on Transportation in Developing Countries | AME40**

Poster Session 2223

**Advanced Analytical Techniques Used to Address the Unique
Transport Issues of Developing Countries**

Date: Monday, January 8, 2024

Time: 3:45 AM - 5:30 PM ET

Location: Walter E. Washington Convention Center, Hall A

Co-sponsored by:

- AME40(1) Subcommittee on Roadway System Management, Operations, Safety, and Resilience
- AME40(2) Subcommittee on Sustainable and Equitable Access and Mobility for All

Presiding officer: Sam Zimmerman - Chair, AME40

Session details:

- “Effect of built environment characteristics on the relationship between shared e-bikes and public transit” (TRBAM-24-00634) – Yu-Qian Zhang (Southeast University) and Yanjie Ji
- “Evaluation of safety based on extreme value approach at unsignalized T intersections in India” (TRBAM-24-01794) – Jino Therattil, Prathamesh More, and Nipjyoti Bharadwaj (Indian Institute of Technology, Guwahati)
- “Composite accessibility index: A novel and holistic measure for evaluating transit accessibility” (TRBAM-24-01817) – Rohit Rathod, Gaurang Joshi, and Shriniwas Arkatkar (Sardar Vallabhbhai National Institute of Technology, Surat)
- “Analysis of heterogenous motorcycle risk perception and crash exposure in developing country’s urban driving environment: Precursors and policy implications using structural equation modeling” (TRBAM-24-02246) – Md. Mushtaque Tahmid, Md. Asif Raihan (Bangladesh University of Engineering and Technology), Sadia Salam, Asif Muktadir, and Md. Shamsul Hoque
- “Exploring the spatial-temporal heterogeneity of determinants on the usage efficiency of electric bike-sharing: A case study of Kunming, China” (TRBAM-24-02320) – Zhuangbin Shi, Jiaxian Wang, and Yang Liu (Kunming University of Science & Technology)
- “Battery-swapping services in electric micro-mobility: Assessing user preferences and willingness to pay” (TRBAM-24-03238) – Chenchen Kuai (University of California, Los Angeles), Fan Zhang, Southeast University, and Huitao Lv

- “Optimization of highway service areas' development directions: A case study of Guizhou Province” (TRBAM-24-03506) – Mingwei He, Kaibiao Song, Qingwen Zhao, and Jie Liu (Kunming University of Science and Technology)
- “Quantifying drivers' dilemma at unsignalized intersections in developing economies: Case study from India” (TRBAM-24-04157) – Aninda Bijoy Paul (Sardar Vallabhbhai National Institute of Technology, Surat), Vishal Patel, and Shriniwas Arkatkar
- “Examining driver injury severity in motor vehicle crashes: A Copula-based approach considering temporal heterogeneity in a developing country context” (TRBAM-24-04512) – Shahriar Pervaz (University of Central Florida), Tanmoy Bhowmik, and Naveen Eluru
- “Analysis of injury severity levels and contributory factors in traffic crashes at signalized intersections under mixed traffic conditions in a developing country” (TRBAM-24-04704) – John Kodi (HNTB Corporation), Evans Msaki, Angela Kitale, Henrick Haule, and Md. Sultan Ali
- “Integration of ridesourcing and metro transit: A spatiotemporal analysis in Shanghai considering heterogeneity” (TRBAM-24-05361) – Xinghua Liu, Ye Li, Jing Fan (Tongji University), Kaidi Yang, Xuan Shao, Ziliang Lai, and Qiumeng Li
- “Investigating the determinants of commuting efficiency in young families of childbearing age considering household activity constraints: A case study in Guiyang, China” (TRBAM-24-05444) – Yang Liu, Feng Chen, Baohong He, Mingwei He, Zhuangbin Shi (Kunming University of Science and Technology)
- “Estimation of potential user's willingness to pay for electric two-wheelers in Pune, India” (TRBAM-24-05964) – Pravin Telang (Indian Institute of Technology, Bombay) and Perumal Vedagiri
- “Investigating the effects of underreporting on traffic accident severity in Cambodia” (TRBAM-24-05974) – Chamnab Sreang, Varun Varghese, and Makoto Chikaraishi (Hiroshima University)
- “Managing transit-oriented development: A comparative analysis of expert groups and multi-criteria decision-making methods” (TRBAM-24-06413) – Reza Abdullah (Hiroshima University), Blessy Xavier, Hyewon Namgung, Varun Varghese, and Akimasa Fujiwara