



University of the Philippines
LOS BAÑOS

Transportation Science Society of the Philippines (TSSP) 31st Annual Conference

TSSP in cooperation with the

**Department of Civil Engineering
College of Engineering and Agro-Industrial Technology
University of the Philippines Los Baños**



Theme: “Driving Smart Mobility Change: Innovations, Equity and Climate Resilience for a Connected Sustainable Future”

4 December 2025 (Thursday)

SEARCA Complex, U.P. Los Baños, College, Laguna

PROGRAM

Time	Activity
8:00 – 9:00 AM	Registration (Sam Arng Room)
Plenary Session (Umali Auditorium)	
9:00 – 9:30 AM	Opening Program - Invocation - National Anthem - Opening Remarks: Dr. Ma. Sheilah G. Napalang President, TSSP - Messages Hon. Neil Andrew N. Nocon Mayor, Municipality of Los Baños, Laguna Dr. Jose V. Camacho Jr. Chancellor, U.P. Los Baños
9:30 – 10:30 AM	Introduction of the Keynote Lecturer: Dr. Daniel L. Mabazza Board Member, TSSP Keynote Lecture: <i>Beyond Models: Understanding Transportation as a Complex Adaptive System in the Age of AI</i> Dr. Christopher P. Monterola Professor Aboitiz Chair in Data Science Head, Aboitiz School of Innovation, Technology, and Entrepreneurship Executive Managing Director, ACCeSs@AIM Academic Program Director, PhD in Data Science Asian Institute of Management (AIM)
10:30-10:45 AM	Picture-Taking & Coffee Break



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Time	Activity
Plenary Session (Umali Auditorium)	
10:45-11:45 AM	Panel Discussion/Presentation <i>Theme: Ensuring Equity in Pursuit of Smart Mobility</i> Mr. Wilhansen Joseph Li Co-Founder, CTO Sakay Mobility Philippines Corp. Dr. Daniel Oviedo Hernandez Associate Professor, Development Planning Unit University College London Dr. Noriel Christopher C. Tiglao Professor, National College of Public Administration and Governance, University of the Philippines Diliman Co-founder, SafeTravelPH Mobility Innovations Organization Inc. Moderator: Dr. Crispin Emmanuel D. Diaz, Secretary, TSSP
11:45 - 12:00 NN	Open Forum
12:00 - 1:30 PM	Lunch (Makiling Lounge)



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Time	Activity
1:30 – 2:30 PM	Technical Session 1: Traffic Engineering & Management 1 Session Room 1: Saguiguit Room Chair: TBA 18-Measuring the Traffic Impacts of Tactical Urbanism: A Corridor and Intersection Analysis in Quezon City [Mark Laurence MICIANO, UPD] 21-Estimation of Passenger Car Unit Values of Vehicles in Urban Arterial Roads Based on the Influence of the Neighboring Vehicles [Hamja JAAFAR, Zamboanga Peninsula Polytechnic State University] 31-Determining an Optimal Intersection Traffic Management Design Through Microsimulation [Hanzel MEJIA, Visayas State University]
	Technical Session 2: Transport Planning 1 Session Room 2: Umali Auditorium Chair: TBA 13-Modelling Airport Noise Pollution & Its Potential Impacts on Public Health: A Case Study of Tuguegarao Domestic Airport [Ralph Angelo ESTILLER, Cagayan State University] 16-Understanding Inland Water Transportation and Exploring Its Role in Tourism: the Case of Navotas – Malabon River Boats, Metro Manila, Philippines for Sustainable and Resilient Transport [Patricia Joy AMIDAO, UPD] 32-Development of a National Travel Time and Delay Survey Methodology using Smartphone-based Data Collection System [Noriel Christopher TIGLAO, UPD]
	Technical Session 3: Transport Policy Session Room 3: Drilon Hall Chair: TBA 09-Public Transport Modernization Program in Nueva Ecija: Benefits, Challenges, and Recommendations in Transitioning from Traditional to Modern Public Utility Jeepney [Francis Harvey VALDEZ, CLSU] 12-From Patchwork to Coherent Policy: Designing Fare Systems for Multimodal Transit in Developing Countries [Rene SANTIAGO, Bellweather]



Time	Activity
	14-Assessing PUV Modernization Program Industry Consolidation and Financing Towards Just Transition for Transport Workers [Ramir Seraphim ANGELES, Move As One Coalition]
2:30 - 3:30 PM	Technical Session 4: Traffic and Weather Session Room 1: Saguiguit Room Chair: TBA 22-Impacts of Extreme Flooding Event on the Volume-to-Capacity Ratio of Major Road Networks: The Case of Tuguegarao City [Ralph Angelo ESTILLER, Cagayan State University] 28-Calibration and Validation of a Weather-responsive Estimation and Prediction System of a Macroscopic Traffic Flow Model [Hanzel MEJIA, Visayas State University] 29-Empirical Proof of the Characteristics of the Queue Discharge Rate under Different Rainfall Conditions on an Active On-Ramp Bottleneck [Hanzel MEJIA, Visayas State University] Technical Session 5: Transport Planning 2 Session Room 2: Umali Auditorium Chair: TBA 23-Comparative Analysis of Transportation Mode Choices Between Students of the University of the Philippines Diliman (UPD) and the Ateneo de Manila University (ADMU) [Marloe SUNDO, UPLB] 27-Life On Two Wheels: Assessing the Coping Mechanisms of Motorcycle Taxi Drivers Within Novaliches' Underground Economy [James Patrick GONZALES, PUP] 33-Exploring the Role of UP Campus as a Living Lab for Sustainable and Resilient Transport [Noriel Christopher TIGLAO, UPD] 34-The Influence of School Travel Conditions on Academic Achievement and Well-Being of Schoolchildren: A Multi-Method Approach [Karen Joyce SANTIAGO, DLSU] Technical Session 6: Public Transport 1 Session Room 3: Drilon Hall Chair: TBA 01-Enhancement and Application of the Mode Transfer Quality Index (MTQI): The Case of MRT-3 [Adrian DAYON, UPD] 02-Optimizing Route-based Fleet Size Computation through Network-Based Modeling for Puerto Princesa City, Philippines [Ann Camille FAJARDO, SafeTravelPH] 25-Improving Rural Accessibility through PUV Route Optimization: A Case Study of the Island Province of Guimaras [Lance Kenneth MAMUYAC, DLSU]
3:30 - 3:15 PM	Coffee Break
3:15 - 4:15 PM	Technical Session 7: Traffic Engineering & Management 2 Session Room 1 Saguiguit Room Chair: TBA Technical Session 8: Public Transport 2 Session Room 2: Drilon Hall Chair: TBA Technical Session 9: Road Safety Session Room 3: Umali Auditorium Chair: TBA



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Time	Activity
	• 03-Prevalence of Risky Riding Behaviors and Their Association with Traffic Rule Knowledge Among Occupational Motorcycle Riders in Metro Manila [Samantha Emmanuelle DIMAYUGA, DLSU] • 17-Analyzing Real-World Road Traffic Incident Data Collection and Management [Maywadee SOYTONG, UPD]



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Plenary Session (Umali Auditorium)	
4:30 – 5:30 PM	Concluding Program Report on Conference Paper Submissions Awarding for Best Presentation and Best Paper – Dr. Jose Regin F. Regidor , Chair, TSSP Scientific Committee Induction of New Members – Dr. Karl B. N. Vergel , Chair, TSSP Membership Committee Closing Remarks – Dr. Marloe B. Sundo , Chair, TSSP 31st Conference Committee

Program Facilitators:

Mr. Julshabar U. Halil and Mr. Junievin R. Ramillano
Associate Members, TSSP