



Transportation Science Society of the Philippines

c/o National Center for Transportation Studies

University of the Philippines, Diliman, Quezon City, Metro Manila, Philippines

Tel.: (63-2) 8981-8500 local 3554 Email: tssp.ncts@gmail.com Website: <http://ncts.upd.edu.ph/tssp>

CONFERENCE REPORT

Transportation Science Society of the Philippines (TSSP) 29th Annual Conference

in partnership with the

U.P. National Center for Transportation Studies (UP-NCTS)

*Theme: “Challenges and Opportunities for Just Transition
to Low-Carbon Transport”*

7 December 2023 (Thursday)

Face-to-Face and Virtual Conference

National Center for Transportation Studies

University of the Philippines Diliman

I. PROGRAM

CONFERENCE PROPER	
8:00 AM – 9:00 AM	Registration
9:04 AM – 10:12 AM Venue: Toyota Training Room	<u>Opening Program:</u> - Invocation - National Anthem - Welcome Remarks Dr. Ma. Sheilah G. Napalang President, TSSP <u>Keynote Lecture</u> - Introduction of the Keynote Lecturer Dr. Sandy Mae A. Gaspay Secretary, TSSP - Keynote Lecture Usec. Anneli R. Lontoc Road Transportation and Infrastructure Department of Transportation
10:12 AM – 10:28 AM	Coffee Break



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<p>10:28 AM – 12:26 PM</p> <p>Venue: Toyota Training Room</p>	<p><u>Panel Discussion:</u></p> <p>Theme: <i>“Challenges and Opportunities for Just Transition to Low-Carbon Transport Systems”</i></p> <p>Panelists:</p> <p>Engr. Riza Marie T. Paches Board Member, LTFRB</p> <p>Mr. Yuri P. Sarmiento EVEE, Inc./Federation of EV Operators, Inc.</p> <p>Dir. Patrick T. Aquino Director, EUMB, Department of Energy</p> <p>Dr. Lew Andrew R. Tria Director, Electrical & Electronics Engineering Institute, UPD</p> <p>EnP. Eldon Joshua Dionisio Program Manager, Active Transport Program Department of Transportation</p> <p>Moderator: Dr. Cresencio M. Montalbo, Jr. Professor, SURP, UP Diliman</p> <p>Open Forum</p>
<p>Lunch (NCTS Atrium)</p>	

<p>1:30 PM – 4:10 PM</p>	<p><i>Technical Sessions</i></p>	
	<p>Technical Session 1: Public Transportation [Chair: Dr. Marie Danielle V. Guillen] Venue: Toyota Training Room</p> <ul style="list-style-type: none"> Evaluating the Fuel Efficiency and Eco-Driving Potential of the EDSA Carousel using On-Board Diagnostics (OBD) and Mobile Crowdsourcing <i>presented by Erris SANCIANGCO</i> Enhancing Public Transport Planning through Participatory Action Research: The Bacolod City Simulation Exercise (SimEx) Experience <i>presented by Noriel Christopher TIGLAO</i> 	<p>Technical Session 2: Transport & Technology [Chair: Dr. Hilario Sean O. Palmiano] Venue: Seminar Room D</p> <ul style="list-style-type: none"> Towards a Roadmap to Realize the Physical Internet Vision in the Philippines: Preliminary Results from Stakeholders’ Consultation <i>presented by Varsolo SUNIO</i> Techno-Economic Study of a Solar Fast Charging Station for a Local Public E-Trike Fleet <i>presented by Rovinna Janel TAYO</i>



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	<ul style="list-style-type: none"> • Black Spot Cluster Analysis of Road Crash involving Public Utility Vehicles (PUV) along Commonwealth Avenue using Kernel Density Estimation <i>presented by Jerome BALLARTA</i> 	
Coffee Break		
	<p>Technical Session 3: Motorcycle Taxis [Chair: Dr. Ma. Sheilah G. Napalang] Venue: Toyota Training Room</p> <ul style="list-style-type: none"> • Out From the Cold: Unboxing “Habal-Habal” in the Philippines (and the Motorcycle-taxis in the Global South) <i>presented by Rene S. Santiago</i> • Study on the Operational Characteristics of Motorcycle Taxis in Metro Manila <i>presented by Sahid KAMID</i> 	<p>Technical Session 4: Mobility and Active Transport [Chair: Dr. Crispin Emmanuel D. Diaz] Venue: Seminar Room D</p> <ul style="list-style-type: none"> • Exploring Travel Patterns of Mobility of Care in Guiuan, Eastern Samar: Assessment of Gender and Sociodemographic Factors Using Spatial Analysis (online) <i>presented by Maria Belen VASQUEZ</i> • Proposing An Ideal Cycling Network Through Accessibility Analysis Using Isochrones: A Case Study of Two Adjacent Metro Manila Cities, Makati and Mandaluyong <i>presented by Diomel John ESCUTIN</i> • Enabling Pedestrian-related Traffic Studies through a Realistic Pedestrian Simulation Module in LocalSim (online) <i>presented by Jaymar SORIANO</i>



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4:10 PM – 5:11 PM	<i>Plenary Session (Toyota Training Room)</i>
	<p><u>Closing Program:</u></p> <ul style="list-style-type: none">- Induction of New Members Dr. Karl B. N. Vergel TSSP Membership Committee Chair - Awarding of Certificates of Appreciation- Best Paper and Best Presentation Awards Dr. Jose Regin F. Regidor 29th TSSP Scientific Committee Chair - Closing Remarks Dr. Jun T. Castro 29th TSSP Conference Chair - Group Photo



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II. CONFERENCE PROCEEDINGS

1. Enabling Pedestrian-related Traffic Studies through a Realistic Pedestrian Simulation Module in LocalSim by *Rene Lee AQUITANIA, Dennis Christian ROXAS, and Jaymar SORIANO*
2. Black Spot Cluster Analysis of Road Crash Involving Public Utility Vehicles (PUV) along Commonwealth Avenue using Kernel Density Estimation by *Jerome BALLARTA, Sheila Flor JAVIER, Carolyn MERCADER*
3. Proposing An Ideal Cycling Network Through Accessibility Analysis Using Isochrones: A Case Study of Two Adjacent Metro Manila Cities, Makati And Mandaluyong by *Diemel John ESCUTIN, Florian PANESA, Lemuel Duke Irving LIBIRAN, Jerard Emmanuel ESCALDERON, Krister Ian Daniel ROQUEL, Syrus GOMARI*
4. Study on the Operational Characteristics of Motorcycle Taxis in Metro Manila by *Raniel Abraham A. MANGCO, Justy Lucille T. MONTIVEROS, Glenn Simon LATONERO, Sahid A. KAMID, Jose Regin F. REGIDOR*
5. Evaluating the Fuel Efficiency and Eco-Driving Potential of the EDSA Carousel using On-Board Diagnostics (OBD) and Mobile Crowdsourcing by *Erris SANCIANGCO, Noriel Christopher TIGLAO, Niki Jon TOLENTINO, Gillian Kate HIDALGO, Mary Joy LEANDA, and Lester Jay OLLERO*
6. Out From the Cold: Unboxing “Habal-Habal” in the Philippines (and the Motorcycle-taxis in the Global South) by *Rene S. Santiago, Nigel Paul Villarete, Alexis M. Fillone*
7. Towards a Roadmap to Realize the Physical Internet Vision in the Philippines: Preliminary Results from Stakeholders’ Consultation by *Varsolo SUNIO, Simon Anthony LORENZO, Joel ILAO, John Anthony JOSE, Raymond Freth LAGRIA, Glenda MINGUITO, Glenn Barcelona PACLIJAN, Regine TEJADA, Rowell CASTRO, Maria Corazon OCAMPO, Lorafe LOZANO, Michelle Renee CHING, Jennalyn MINDORO, Enrique LIGOT, Greg FOLIENTE*
8. Techno-Economic Study of a Solar Fast Charging Station for a Local Public E-Trike Fleet by *Rovinna Janel C. TAYO, Brandon Jamos R. CIPRIANO, John Cyril CALUB, Lew Andrew R. TRIA, Leo Allen S. TAYO, Karl N. VERGEL*
9. Enhancing Public Transport Planning through Participatory Action Research: The Bacolod City Simulation Exercise (SimEx) Experience by *Noriel Christopher TIGLAO, Erris SANCIANGCO, Joyce RIVERA, and Sarah CHAVEZ*
10. Exploring Travel Patterns of Mobility of Care in Guiuan, Eastern Samar: Assessment of Gender and Sociodemographic Factors Using Spatial Analysis by *Maria Belen VASQUEZ, Jun T. CASTRO*



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III. AWARDS

Best Paper Award

Exploring Travel Patterns of Mobility of Care in Guiuan, Eastern Samar: Assessment of Gender and Sociodemographic Factors Using Spatial Analysis

Maria Belen VASQUEZ and Jun T. CASTRO

Best Presentation Award

Exploring Travel Patterns of Mobility of Care in Guiuan, Eastern Samar: Assessment of Gender and Sociodemographic Factors Using Spatial Analysis

Maria Belen VASQUEZ (presenter) and Jun T. CASTRO

Evaluating the Fuel Efficiency and Eco-Driving Potential of the EDSA Carousel using On-Board Diagnostics (OBD) and Mobile Crowdsourcing

Erris SANCIANGCO (presenter), Noriel Christopher TIGLAO, Niki Jon TOLENTINO, Gillian Kate HIDALGO, Mary Joy LEANDA, and Lester Jay OLLERO

IV. CONFERENCE ATTENDANCE

Attendance by Membership Category

(From the Registration Committee and TSSP Secretariat)

Face-to-Face	Membership Category	Number
	Lifetime Members	7
	Regular Members	21
	Associate Members	26
	Corporate Members	2
	Student Members	2
	Guests	3
	Non-Members	5
	Non-Members (Students)	18
	Conference Committee/Staff	24
Sub-Total (Face-to-Face)		108
Online	Membership Category	Number
	Lifetime Members	2
	Regular Members	4
	Associate Members	7
	Corporate Members	6
	Guests	1
	Non-Members	3
	Non-Members (Students)	6
	Conference Committee/Staff	
Sub-Total (Online)		29
TOTAL PARTICIPANTS		137



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Morning Session

Face-to-Face	83 participants
Zoom	18 participants
Total	101 participants

Afternoon Session

Technical Session	1 and 2	3 and 4
Face-to-Face	72 participants	61 participants
Zoom	16 participants	13 participants
Total	88 participants	74 participants



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V. CONFERENCE PHOTOS



Fig 1. Plenary Session



Fig 2. Welcome Remarks, Dr. Ma. Sheilah G. Napalang, President, TSSP



Fig 3. Keynote Lecture, Usec. Anneli R. Lontoc, Department of Transportation



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Fig 4. Dr. Napalang and Usec. Lontoc with Dr. Jun T. Castro, Director, UP National Center for Transportation Studies and Chair of TSSP 29th Conference Committee



Fig 5. Panel Discussants with Dr. Castro and Dr. Napalang. From Left to Right: Dr. Castro; Dr. Cresencio Montalbo, Jr., SURP-UPD (Moderator); Mr. Yuri Sarmiento, EVEC, Inc./Federation of EV Operators, Inc.; Dr. Napalang; Dr. Lew Andrew Tria, Electrical & Electronics Engineering Institute, UPD; Engr. Riza Marie Paches, LTRFB; EnP. Eldon Joshua Dionisio, Department of Transportation



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Fig 6. Technical Session at Toyota Training Room



Fig 7. Technical Session at Seminar Room D



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Fig 8. Induction of New Members, Dr. Karl B. N. Vergel, TSSP Membership Committee Chair



Fig 9. Induction of New Student Member



Fig 10. Induction of New Regular Members



Fig 11. Induction of New Associate Members with Dr. Napalang



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Fig 12. Best Paper Awardee and one of the Best Presentation Awardees (Ms. Vasquez) with Dr. Napalang and Dr. Castro



Fig 13. Group photo for the 29th Annual Conference of the Transportation Science Society of the Philippines