



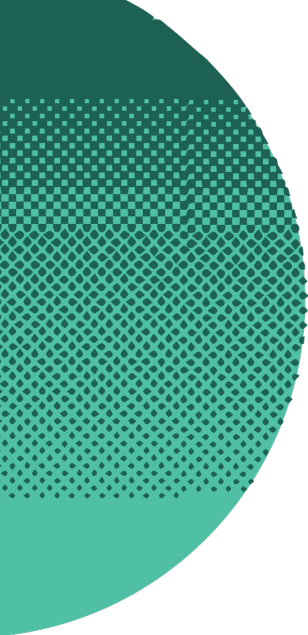
DE LA SALLE UNIVERSITY RESEARCH CONGRESS 2025

June 26-27, 2025

The Verdure, Fourth Floor,
Henry Sy Sr. Hall,
De La Salle University

June 28, 2025

Online via Zoom



ABOUT THE CONGRESS

Held every year, the **De La Salle University Research Congress (DLSU ResCon)** invites researchers, educators, and students to share and discuss their work, fostering collaboration and knowledge exchange across disciplines.

For 2025, the DLSU ResCon will be from June 26-28.

Day 1:

June 26, 2025

The Verdure, Fourth Floor of the Henry Sy Sr. Hall at DLSU Manila Campus

Day 2:

June 27, 2025

The Verdure, Fourth Floor of the Henry Sy Sr. Hall at DLSU Manila Campus

Day 3:

June 28, 2025

Online via Zoom



AI for a Green Future: Reflecting on 10 Years of Sustainable Development Goals Progress

The 17 Sustainability Development Goals (SDGs) Agenda for 2030 was established by the UN Summit back in 2015 which envisions promoting prosperity while protecting the planet.

To achieve the 17 SDGs, governments across the globe took ownership and responsibility to establish their national frameworks. To seamlessly and clearly incorporate the SDG goals in their innovation and technological activities, the 17 SDGs were embedded in their research and innovation roadmaps.

Research and innovation, in the context of the 17 SDGs, refers to the systematic investigation and creation of new knowledge and technologies that address the interconnected challenges facing humanity and the planet. This then involves a wide range of disciplines and approaches, from fundamental scientific research to applied engineering and social innovation.

These activities are all geared toward achieving a more sustainable and equitable future.

Artificial Intelligence for a Green Future provides a transformative alternative for achieving faster the 17 SDGs. With AI's analytical computing capability, complex sustainability challenges across diverse sectors can be addressed.

AI empowers scientists, engineers, and researchers to design more efficient infrastructure and optimize resource management. In addition, AI can be utilized for advanced climate modeling, biodiversity analysis, and materials discovery. Thus, accelerating the pace of scientific breakthroughs that are crucial for a green transition.

With the involvement of AI for the green future, plays a vital role in developing AI ethics frameworks and educating the next generation of researchers and scientists.

Realizing the full potential of **AI for a Green Future and reflecting on the progress of the SDGs** requires a commitment to responsible AI development, ensuring inclusivity, transparency, and ethical considerations. Thus, this collaborative, multifaceted approach will accelerate progress toward a sustainable and equitable future for all.

RESCON 2025

DAY 1 (JUNE 26)

08:00-09:00	Registration
09:00-09:15	Opening Ceremonies Ribbon Cutting Invocation National Anthem Welcome Remarks Br. Bernard Oca FSC President, De La Salle University Opening Remarks Dr. Raymond Girard Tan Vice President for Research and Innovation, De La Salle University
09:15-10:00	Keynote Address Emotional Connections: Designing Artificial Skins, Sensing, and Hands for Meaningful Human-Robot Interactions Prof. John-John Cabibihan Professor, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar Golden Jubilee Honorary Professor, De La Salle University, Philippines
10:00-10:15	2025 Questions Magazine Launch
10:15-10:30	Coffee Break
	Plenary Session 1 Prof. Dominic Foo Professor and Head, Department of Chemical and Environmental Engineering, University of Nottingham, Malaysia Golden Jubilee Honorary Professor, De La Salle University, Philippines
11:00-11:15	Health Break
11:15-12:00	Gong Show Poster Presentations
12:00-13:00	Lunch Break

13:00-15:30	University Fellow's Talks Dr. Rosemary Seva President, Society of University Fellows University Fellow, De La Salle University Dr. Susan Gallardo University Fellow and Professor, De La Salle University Prof. Raymund Sison University Fellow and Professor, De La Salle University Acd. Wilfredo Licuanan University Fellow and Professor, De La Salle University
15:30-15:45	Intermission Number
15:45-16:30	Plenary Session 2 Beyond the Traditional: Harnessing Innovative Data for Sustainable Development Dr. Macario Cordel Data Scientist, Asian Development Bank
16:30-18:00	Panel Discussion Strategies for Successful Grant Applications and Network Expansion Research Center Directors, De La Salle University

RESCON 2025

DAY 2 (JUNE 27)

AM Session: The Verdure, Fourth Floor, Henry Sy Sr. Hall, De La Salle University Manila Campus	
09:15-10:00	Plenary Session 3 AI for Good? For Better? Or For Worse? Accelerating Innovation Toward a 'Doughnut' Future Prof. Greg Foliente Professorial Fellow, Faculty of Engineering and Information Technology, University of Melbourne, Australia Golden Jubilee Honorary Professor, De La Salle University, Philippines
10:00-10:15	Coffee Break
10:15-11:00	Plenary Session 4 Sustainable Skies: Leveraging AI and Innovation in Aviation to Advance the SDGs Jeanne Rachelle Dimalanta Technical Projects Manager, Cebu Pacific Air
12:00-13:00	Lunch Break
PM Session: The Verdure (4F) and Pardo Hall (5F), Henry Sy Sr. Hall, De La Salle University Manila Campus	
13:30-16:20	Parallel Sessions AI and Digital Innovation for Resilient and Inclusive Systems in the Philippines The Verdure (4F) Henry Sy Sr. Hall 13:30-16:20 Inclusive and Innovative Pedagogies for 21st-Century Learners: Bridging Cultures, Classrooms, and Technologies The Verdure (4F), Henry Sy Sr. Hall 13:30-16:20 Work, Leadership, and Transitions: Perspectives on Organizational Behavior and Professional Wellbeing The Verdure (4F), Henry Sy Sr. Hall 13:30-16:10

13:30-16:20

Parallel Sessions

Scientific Innovations for Health, Environment,
and Sustainability: Interdisciplinary Approaches in
Life and Physical Sciences

Pardo Hall (5F), Henry Sy Sr. Hall

13:30-16:20

Inclusive Planning and Policy: Intersections of
Economy, Environment, and Urban Development
in the Philippines

Pardo Hall (5F), Henry Sy Sr. Hall

13:30-15:55



RESCON 2025

DAY 3 (JUNE 28)

09:00-11:50

Parallel Sessions

Smart Systems and Spatial Solutions for Resilient and Data-Driven Local Governance

via Zoom
09:00-11:30

Innovative Pedagogies and Leadership in 21st-Century Learning: Technology, Inclusion, and Teacher Development

via Zoom
09:00-11:50

Human-Center AI and Machine Learning Applications: From Wellness to Ethical and Sustainable Tech

via Zoom
09:00-11:40

Sustainable Futures: Ecological Innovation, Green Technologies, and Environmental Consciousness

via Zoom
09:00-11:50

Work, Leadership, and the Emerging Workforce: Navigating Behavior, Motivation, and Organizational Resilience

via Zoom
09:00-11:50

Scientific Frontiers in Structure, Sustainability, and Bio-Innovation

via Zoom
09:00-11:50

Society, Language, and Wellbeing in a Digital and Developmental Philippine Landscape

via Zoom
09:00-11:30

Smart Systems and Spatial Solutions for Resilient and Data-Driven Local Governance

via Zoom
09:00-11:30

09:00-12:00	Workshops Greenlight Your Ideas: A Patents 101 and Search Workshop for Sustainable Innovators Paolo Luis Lozano & Theda Mae Dumali via Zoom Innovating the STEM Curriculum: Addressing Global Challenges Through AI and Data-Driven Learning Daisy Mae Bongtiwon via Zoom
12:00-13:00	Lunch Break
13:30-14:30	Closing Ceremonies Research Center Videos Awarding of Best Papers and Posters Closing Remarks Dr. Aristotle Ubando Chair, DLSU Research Congress 2025 Research Fellow, De La Salle University

**Day 3 is online only.*



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BACKGROUND AT**
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GONG SHOW PRESENTATIONS

DAY 1 (JUNE 26)

11:15-12:00

ID NO.	TITLE AND AUTHORS
131	Determinants of Asset Misappropriation in Business Process Outsourcing Industry in the Perspective of Fraud Pentagon Theory: External Operations View Jummitsu Sorimachi and Jocelyn Cruz
152	Sex Classification of Aedes aegypti Pupae Using Image-Based Morphometric Feature Extraction and Machine Learning Abigaile Mia Hila and Thaddeus Carvajal
156	Listening to Lasallians: Extracting Institutional Insights from Reddit Discourse Abraham Chen and Dr. Raphael Gonda
158	Dama at Datos: Empowering Filipino Businesses through Data-Driven Emotion Insights Dalrienne Francesca Togado and Dr. Raphael Gonda
182	Evaluating Built Environments for Quality of Life: The BUILD-QOL Rating Survey Framework Gil Oliver Ayuyao, AndresWinston Oreta, and Ronaldo Ison
187	The Green Makeover: Biotechnology 2.0 for Sustainable Fashion & Beauty in the Philippines Yannikka Bata, Helena Bermudez, Maxine Rebanal, Raissa Sison, and Zeba F. Alam
190	PUV Accessibility in an In-City Relocated Community: A Preliminary Study in LRB-Manggahan, Pasig City John Dominic Franzuela, Aeron Garon, Clair Nicole Lota, Carl Gabriel Navarro, Paolo Ian Lucero, and Maria Cecilia Paringit
198	Manganese Chloride and PEGylated Manganese Oxide Nanoparticle as Chemical Inducers for Agarwood Formation Flynn Daryl Falcon, Frances Felicity Felicen, and Dr. Joel Garcia

PARALLEL SESSIONS 1

DAY 2 (JUNE 27)

13:30-16:20

AI AND DIGITAL INNOVATION FOR RESILIENT AND INCLUSIVE SYSTEMS IN THE PHILIPPINES	
TIME	TITLE AND AUTHORS
13:30-13:40	Integrating AI-Driven Strategies for Disaster Preparedness in the Philippines: Retrofitting Old Buildings as Smart Evacuation Centers Eden Gay M. Deabanico
13:40-13:50	Application of Generative AI for Contextual and Exploratory Search in a Library Discovery Service Luis Ezra D. Cruz
13:50-14:00	PhilSys ID Data Authentication via NTRUEncrypt: A Lattice-Based and Post-Quantum Cryptographic Implementation John Trixie M. Ocampo and Romie C. Mabborang
14:00-14:10	AI-Driven Early Detection of Pediatric Pneumonia: Optimizing Convolutional Neural Networks for Chest X-Ray Analysis in Children Under 5 Adelaide Louise Naquila, Riana Lhei Almodovar, Jamiel Joy Rebueno, Elijah John Ramos, and Ronnel Agulto
14:10-14:20	Specialized System on Managing Virtual Machine with Proxmox for DLSU - College of Computer Studies Jonathan Lin, Rafael Christian Sanchez, Patrick Bennett Ong, Angeline Shi, and Gregory Cu
14:20-14:30	Clinically Online: Assessing Rural Physicians' Intention to Use Telemedicine in Philippine Healthcare through a Modified Technology Acceptance Model Kirsten Amber Estrella, Ben Paolo Macatangay, Jeremy Pocaan, and Ryan Ebardo
14:30-14:40	Enhancing Multi-Domain Pattern Recognition with Frequency-Domain and Spatially Coherent Neural Architectures Renz Aron Q. Gorre, John King, Crispo Philip II M. Marquez, and Tom Oliver C. Presado

PARALLEL SESSIONS 1

DAY 2 (JUNE 27)

13:30-16:20

AI AND DIGITAL INNOVATION FOR RESILIENT AND INCLUSIVE SYSTEMS IN THE PHILIPPINES

TIME	TITLE AND AUTHORS
14:40-14:50	FuseVault: An Application Programming Interface (API) for Enhanced Blockchain Data Storage Using InterPlanetary File System (IPFS) and MongoDB Jordyn William Anton Hay, Jeanine Marie Ignacio, John Kieffer Recato Dy, Timothy Joshua Tan, and Katrina Ysabel Solomon
14:50-15:00	Exploring Transformer-based Approaches in Sentiment Prediction of Philippine Tweets Marcus Calalang, Miguel Estaño, Jon Jacinto, Mauries Lopez, Eric Denver Co, John Matthew Gan, Jose Noel Noblefranca, Jason Jan Jabanés, and Edward Tighe
15:00-15:10	Assessment of Quality Attributes of Falconexus as a Centralized Digital Platform for Student Organizations at Adamson University Senior High School Mikaelo Mugen Alinea, Kathreena Cayabyab, Jodie Louise Dayrit, Tiffanie Joice Eclevia, Andre Venice Esguerra, Bren Enniel Landeta, Stephen David Maniau, Harold Angelo Ocampo, Daniell Zedric Ricafort, Paul Nino Sombrio, Zamza Tambio, Marianne Samantha Vicente, and Lean Andrei Waje
15:10-15:20	Development of ASR models for a Filipino healthcare chatbot Vincent Maximus Burce, Matthew Adrian Chua, Merrick Zivan Malong, and Ashley Kille Ramos
15:20-16:20	Open Forum

PARALLEL SESSIONS 2

DAY 2 (JUNE 27)

13:30-16:20

INCLUSIVE AND INNOVATIVE PEDAGOGIES FOR 21ST-CENTURY LEARNERS: BRIDGING CULTURES, CLASSROOMS, AND TECHNOLOGIES	
TIME	TITLE AND AUTHORS
13:30-13:40	Multisensory Routine Map During Classroom Transition as a Strategy for Disruptive Behavior Among Pre-Kindergartners Caterina Nicole C. Aguirre, Denisse Marielle Cerilla, and Anne Marie Ramos
13:40-13:50	Applied Literacy Skills of Grade Four Learners in MATATAG Curriculum English Carmela M. Santos and Quennie Ann Palafox
13:50-14:00	It's a wonderful line Jose Tristan Reyes
14:00-14:10	Contributing to the attainment of Sustainable Development Goals as a Service-Learning Instructor: Understanding the lived experience through transcendental phenomenology Gabriel John C. Lazaro and Anne Marie R. Ramos
14:10-14:20	Modularization: An inclusive and sustainable approach to the teaching of Differential Calculus Lea Marissa S. Domingo
14:20-14:30	Beyond the Screen: Urban-Rural Contrasts in Filipino Preschoolers' Movement Behaviors – Findings from the SUNRISE Pilot Study Marites Tiongco, Mitzie Irene Conchada, Raymund Sison, Roberto Javier Jr, and Tony Okely
14:30-14:40	NUMBO: Exploring the Collaborative Skills and Engagement of Grade 9 Students during a Mathematics Performance Task Ron Emmanuel Bernarte, Eman Cañete, Angelo Magay, Mary Carl Soriano, Abegail Udan, and Jose Mari Calamlam

PARALLEL SESSIONS 2

DAY 2 (JUNE 27)

13:30-16:20

INCLUSIVE AND INNOVATIVE PEDAGOGIES FOR 21ST-CENTURY LEARNERS: BRIDGING CULTURES, CLASSROOMS, AND TECHNOLOGIES

TIME	TITLE AND AUTHORS
14:40-14:50	Learning Styles and Retention Level in General Physics 1 of Grade 12 STEM Students at Golden Acres National High School-Senior High School Ma. Angela Esperanzate Abasta, Ma. Marites Bohol Abayare, Deanzel Flores Caliso, Rounin Natanio Cuenca, and Jay Abiera Gutlay
14:50-15:00	Design and Development of Wearable Posture Notifier (WeaPoN) and Human Body Motion Analyzer Oliver Sepnio and Alexander C. Abad
15:00-15:10	Virtual Chemistry Laboratory as a Chemistry Teaching Tool for the Mobile Platform Nathan Andrei Asnan, Rafael Joshua Diaz, Christian Dave Tordillo, Michael Hamza Mustapha, and Judith Azcarraga
15:10-15:20	In-Service Mathematics Teachers' Technology Proficiency Self-Assessment for 21st Century Learning: A Cross-Sectional Survey Maegan Asuncion, Evangeline Jamisola, Angelo Magay, Jerome Russel Mayhay, and Asher Toledo
15:20-16:20	Open Forum

PARALLEL SESSIONS 3

DAY 2 (JUNE 27)

13:30-16:10

WORK, LEADERSHIP, AND TRANSITIONS: PERSPECTIVES ON ORGANIZATIONAL BEHAVIOR AND PROFESSIONAL WELLBEING	
TIME	TITLE AND AUTHORS
13:30-13:40	The Role of Social Capital and Habitus in Facilitating Transition to University Amir A. Austria and Christine Joy A. Ballada
13:40-13:50	Work-life balance on job satisfaction among employees of a Pampanga-based BPO firm Cedric Joshua Bustos Jarcia
13:50-14:00	Impact of Israel-Hamas Conflict on Consumer Animosity Luz Suplico Jeong and Reynaldo Bautista Jr.
14:00-14:10	Comparative Analysis on the Impact of Anonymous Alternative Feedback Channels to Leadership Behavior in Selected BPO Companies Mark Jayson Escaner, Mariano Ching, Mauricio Camayra Jr., and Neil Jasper Coroza
14:10-14:20	Determinants of Asset Misappropriation in Business Process Outsourcing Industry in the Perspective of Fraud Pentagon Theory: External Operations View Jummitsu Sorimachi and Jocelyn Cruz
14:20-14:30	Green human resource management practices and employee engagement in information technology-enabled services companies in Makati City Josephine Zafra and Jayvie Guballo
14:30-14:40	Managers Decision-Making Styles Among Fine Dining Restaurants in Mandaluyong City Billie Solano, Faye Pampula, Niña Pineda, Jophet Sencida, and Jayvie Guballo

PARALLEL SESSIONS 3

DAY 2 (JUNE 27)

13:30-16:10

WORK, LEADERSHIP, AND TRANSITIONS: PERSPECTIVES ON ORGANIZATIONAL BEHAVIOR AND PROFESSIONAL WELLBEING

TIME	TITLE AND AUTHORS
14:40-14:50	Overwork By Design: Undergraduate Edition Gerardo L. Largoza
14:50-15:00	Exploring the Quality of Work Life of Civil Engineers at the DPWH Central Office: Perspectives on Workplace Conditions, Growth, and Societal Contribution Aliana Micah Glorioso, Winston Andres Oreta, Cheryl Lyne Roxas, and Arvin Sanchez
15:00-15:10	A Case Study on Engineering Leadership and Strategic Communication in the Transition from University Research to Startup Paulo Luis Lozano
15:10-16:10	Open Forum

PARALLEL SESSIONS 4

DAY 2 (JUNE 27)

13:30-16:20

SCIENTIFIC INNOVATIONS FOR HEALTH, ENVIRONMENT, AND SUSTAINABILITY: INTERDISCIPLINARY APPROACHES IN LIFE AND PHYSICAL STUDIES	
TIME	TITLE AND AUTHORS
13:30-13:40	Exploring Potential Molecular Targets of Ginkgo biloba Related to Alzheimer's Disease Pathology Michael Josh Ramirez, Lyka Porras, Marion Jacildo, and Jane Abigail Santiago
13:40-13:50	Exploring Mycobacterium tuberculosis Virulence Factor Interactions through In Silico Methods: Contributions to Sustainable Disease Control in the Philippines Mary Emmanuelle Castañeda, Francis Paul Nicdao, Dyanne Jasmine Rafael, and Jane Abigail Santiago
13:50-14:00	Where Mood Meets Microbes: In silico Analysis of Dysbiosis and Its Metabolic Involvements in Major Depressive Disorder Alyssa Nicole Cabarrubias, Julliehanna Rita Dadios, Dwaine Ira Larano, and Jane Abigail Santiago
14:00-14:10	Screening of surfactants and glycols for polyphenol extraction from cacao bean shell Lawrence Belo, Jennivee Chua, and Cynthia Madrazo
14:10-14:20	Designing of a LAMP-based sensor in detecting nitrogen-starvation in Oryza sativa L. spp. indica Yokimiko D. Torrejos, and Mark Christian Redillas
14:20-14:30	Electropolymerization of Polypyrrole on Carbon Electrodes: Effect of Pyrrole Concentration on Film Growth and Morphology Gwen Castillon, Wilfred Espulgar, and Carla Manzano
14:30-14:40	Vapor-Liquid Equilibria of Isopropanol-Water Mixtures in the presence of Tetrasodium Ethylenediaminetetraacetic Acid Juanito Fuellas, Luther King Jardin, Joseph Ronald Roque, Arianne Joy Melendres, Nathaniel Dugos, Allan Soriano, and Vergel Bungay

PARALLEL SESSIONS 4

DAY 2 (JUNE 27)

13:30-16:20

SCIENTIFIC INNOVATIONS FOR HEALTH, ENVIRONMENT, AND SUSTAINABILITY: INTERDISCIPLINARY APPROACHES IN LIFE AND PHYSICAL STUDIES

TIME	TITLE AND AUTHORS
14:40-14:50	Fabrication and Characterization of the Oxidation Process for 940 nm VCSEL Wafers Yu Ma and Gil Nonato C. Santos
14:50-15:00	Cross-Instrument Transfer Learning for Geographic Origin Classification of Ubi “Kinampay” Variety (<i>Dioscorea alata</i> L.): Adapting Bench-Top ED XRF Models to Portable XRF Data Jerald Bongalos, Angel Bautista VII, Dennis Jomoc, Roland Rallos, Grace Backian, Teresita Masangcay, and Remjohn Aron Magtaas
15:00-15:10	<i>Ganoderma lucidum</i> hot water extract attenuates quorum sensing in extended-spectrum beta-lactamase producing <i>Escherichia coli</i> Troy Vincent Tan, Kevin Smith Cabuhat, and Rich Milton Dulay
15:10-15:20	Comparative metagenomic analysis of <i>Chanos chanos</i> gut metagenome in brackish and marine environments from selected aquacultures in the Philippines Antonio Miguel Imperial, Marc Lenard Merlin, Biena Marie Joaquin, Raymond Vincent Castillo, Maria Rowena Romana-Eguia, and Ma. Carmen Lagman
15:20-16:20	Open Forum

PARALLEL SESSIONS 5

DAY 2 (JUNE 27)

13:30-15:50

INCLUSIVE PLANNING AND POLICY: INTERSECTIONS OF ECONOMY, ENVIRONMENT, AND URBAN DEVELOPMENT IN THE PHILIPPINES	
TIME	TITLE AND AUTHORS
13:30-13:40	Decomposition of Wage Differentials Across the Philippine Wage Distribution and The Role of Post-Secondary Educational Attainment Maria Francesca Tomaliwan and Dr. Mariel Monica Sauler
13:40-13:50	Assessment of Soil Erosion in the Bangon and Binahaan River Basins in Leyte Through GIS-Based RUSLE Modeling Kent San Pedro, Sergi Garbanzos, and Marla Maniquiz-Redillas
13:50-14:00	Roots to Revenue: Upholding Economy and Humanistic Values Anton Joaquin Baruelo, Gilliane Mckenzie Ong, Justine Rachel Siyang, and Alexandra Bernice So
14:00-14:10	Auto-Priority Classification Of Road Segments For Repair For The Mandaluyong LGU Geanne Ross Franco, Siefer Rija Boado, Julia Cyrille Coronel, Ziv Matthew Rodriguez, and Syrel Elyssa Santiago
14:10-14:20	Innovative Approaches to Aquaponics: A Review of Current Practices, Strategies, and Impact Assessment Sean Leenon S. Acuzar, Nathaniel James Estavillo, Sebastian M. Garino, Lawrence Belo, and Ira Valenzuela
14:20-14:30	Dismantling Arguments that Promote Inflation and Malign Deflation Roberto B. Raymundo

PARALLEL SESSIONS 5

DAY 2 (JUNE 27)

13:30-15:50

INCLUSIVE PLANNING AND POLICY: INTERSECTIONS OF ECONOMY, ENVIRONMENT, AND URBAN DEVELOPMENT IN THE PHILIPPINES

TIME	TITLE AND AUTHORS
14:30-14:40	<p>PUV Accessibility in an In-City Relocated Community: A Preliminary Study in LRB-Manggahan, Pasig City</p> <p>John Dominic Franzuela, Aeron Garon, Clair Nicole Lota, Carl Gabriel Navarro, Paolo Ian Lucero, and Maria Cecilia Paringit</p>
14:40-14:50	<p>Typo-Morphology Approach: A Strategy for Upholding Cultural Continuity in Architectural Design</p> <p>Melissa Ann Patano, Charles Darwin Aduca, Christian Atuban, Justine Anne Briones, Andrea Rose Casiño, Charlize Azzlei Comia, Genial Domagas, Jercey Maxene Edaño, James Isaac Gramaje, and Cassandra Pimentel</p>
14:50-15:50	Open Forum

PARALLEL SESSIONS 6

DAY 3 (JUNE 28)

09:00-11:30 via Zoom

SMART SYSTEMS AND SPATIAL SOLUTIONS FOR RESILIENT AND DATA-DRIVEN LOCAL GOVERNANCE	
TIME	TITLE AND AUTHORS
09:00-09:10	Franchisee Management System for 11 Nevada Management Group Julia Bettina Dalipe, Matthew Rafael Florendo, Felipe Matteo Locsin, Brian Neil Salangsang, and Marivic Tangkeko
09:10-09:20	Communext: The NU Dasmariñas Community Extension Volunteer and File Management System Elcanah Maria Costelo, Jasper Saldeo Javier, Fernando Daniel Cruz, Christian Dale Gabriel, and Elmer Alino
09:20-09:30	Barangay Disaster Response Support System (BDRSS) with Fingerprint Identification Technology for Barangay San Antonio Lissa Andrea Magpantay, Archie Alquiros, Aleck Jas- per Lim, Jan Daniel Lee Ng, and Jeff Alison Wang
09:30-09:40	Design and Implementation of a Quasi Real-Time Air Quality Monitoring and Control System for Swine Production Christian Deniel Tang, Renzi Jay Camansa, John Philip Gaas, Amier-Haqq Guerzon, Alvin Viola, and Anamie Rabongue
09:40-09:50	EQual: Egg Quality Grading Using YOLOv5 Gerald Arthur S. Gabatan, Shahannah B. Siguin, Francis Gene T. Ersando, and Maylyn D. Angeles
09:50-10:00	Predicting Flood Occurrences in Caloocan City Using Select Machine Learning Models Alyana Joy De Leon, Samira Allyson Fortuno, Andrea Nicole Madolora, Michaela Lynn Santos, and Shirley Chu

PARALLEL SESSIONS 6

DAY 3 (JUNE 28)

09:00-11:30 via Zoom

SMART SYSTEMS AND SPATIAL SOLUTIONS FOR RESILIENT AND DATA-DRIVEN LOCAL GOVERNANCE

TIME	TITLE AND AUTHORS
10:00-10:10	Evaluating the Performance of RegCM5 in Simulating the Near-Surface Air Temperature in Select Cities of Luzon, Philippines John Ericson Domingo, Floro Junior Roque, Jazzie Jao, and Edgar Vallar
10:10-10:20	Assessing Spatial Cognition in Level-1 Hospitals using Space Syntax Theory Hannah Gayle Sannadan, Patrick Ivan Gabuyo, Mark August Derilon, Shinette Beth Bateg, Shaina Crell Lumsod, Ralph Elison Ramones, Vincent Ivan Bersabe, Leoncio Mayo, Adrian Balatero, Patrisha Beatrice Santos, and Ar. Myric Fagyan
10:20-10:30	Trips Generation of College Students in Fairview Quezon City, Philippines Eric John Laron, Napoleon Solo Dela Cruz, and Maria Cecilia Paringit
10:30-11:30	Open Forum

PARALLEL SESSIONS 7

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

INCLUSIVE AND INNOVATIVE PEDAGOGIES FOR 21ST-CENTURY LEARNERS: BRIDGING CULTURES, CLASSROOMS, AND TECHNOLOGIES	
TIME	TITLE AND AUTHORS
09:00-09:10	<p>Understanding the Perceptions and Intentions of Pre-Service ECE Teachers in using GenAI</p> <p>Arianne Rosewell Maling, Rhea Valera, Norman Dave Albo, and Dhana Canoy</p>
09:10-09:20	<p>A Unified Approach: Testing the Effect of a Co-Teaching System in an Inclusive Classroom</p> <p>Ana Janina Buenafior, Ricci Mae Manzano, and Jasper Vincent Alontaga</p>
09:20-09:30	<p>Development of English Skills Practice Test Website for Omani Foundation Students: An ADDIE-Based Approach</p> <p>Arnel C. Cornelio</p>
09:30-09:40	<p>GenAI in learning: How students' self-efficacy, access, attitude, and social influence affect their intent to adopt the technology</p> <p>Violeta C. Valladolid and Rene S. Valladolid</p>
09:40-09:50	<p>Using Multisensory Strategies to Increase Student Engagement during Story Time Among Three-Year-Old Preschoolers</p> <p>Maria Viktoria Q. Yaoto and Martina Leana R. Lucas</p>
09:50-10:00	<p>Tutees' Perceptions on Rural Farm School (RFS) Curriculum Implementation</p> <p>Arnel G. Mangrobang</p>
10:00-10:10	<p>Perceived Organizational Support and Role Conflict Towards Organizational Commitment of Teachers in Selected Private High Schools in the Fourth and Fifth District of Cavite</p> <p>Shiela Mae G. Dogoy, Josua R. Ferrer, Bryan H. Supat, Jhunnel Kenneth R. Turla, Maria Andrea C. Francia, and Cristina M. Signo</p>

PARALLEL SESSIONS 7

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

INCLUSIVE AND INNOVATIVE PEDAGOGIES FOR 21ST-CENTURY LEARNERS: BRIDGING CULTURES, CLASSROOMS, AND TECHNOLOGIES

TIME	TITLE AND AUTHORS
10:10-10:20	E-Journey: A Self-Regulation Tool for Students' Academic Achievement in Select Grade 8 Mathematics Topics Ruffa Mae C. Ediezca, Mikaela Victoria P. Pascua, Elaine Joy E. Salen, Asher B. Toledo, Angeline D. Vales, Denny Vincent M. Vergel, and Jose Mari M. Calamlam
10:20-10:30	The Effect of Mastery Learning Approach (MLA) on Filipino Grade 5 Students' Numeracy Achievement Camela Mae Nayre, Samantha Mae Lumapak, Daisy Rey Magcanta, Rosel Marbella, Venus Mirador, Veronica Rosario, Mharrie Lei Toling, and Jose Mari Calamlam
10:30-10:40	Gender and Leadership Styles in Philippine Public Schools: A Case Study of School Leaders in the Schools Division Office of Manila Karl Eddie T. Malabanan
10:40-10:50	More Than Words: Gen Z Students Reimagine Writing Through Video Essays Gina Ugalingan
10:50-11:50	Open Forum

PARALLEL SESSIONS 8

DAY 3 (JUNE 28)

09:00-11:40 via Zoom

HUMAN-CENTERED AI AND MACHINE LEARNING APPLICATIONS: FROM WELLNESS TO ETHICAL AND SUSTAINABLE TECH	
TIME	TITLE AND AUTHORS
09:00-09:10	CrowdNotate: An Approach to Crowdsourcing the Annotation of Image Data in an Iterative Pipeline Joel Ilao, Vincent Ilagan, Rayvenh Mico Rosima, and Ralph Matthew Sanson
09:10-09:20	Developing a Language Maintenance Program for the Hanunoo Mangyan Language: Strategies in Sustaining Heritage Rochelle Irene Lucas
09:20-09:30	Leveraging Machine Learning for Emotion Detection and Real-Time Implementation of Calming Techniques to Enhance Mental Well-Being Raphael Karlo Santiago, Lawrence Kerwin Amar, Ej Garrett Sosa, Adrienne Josh Sianghio, and Alexander Abad
09:30-09:40	Automated Classification of Course Outcome–Program Outcome Alignment Using Transformer-Based Language Models Gilfred Allen M. Madrigal and Melvin K. Cabatuan
09:40-09:50	Driver Attention Monitoring System with AI-Based Assistant for Fleet Operations Henson Adrian Lee, Michael Judrick Aringo, Gabriel Alexis Ocampo, Jared Craig Ong, and Melvin Cabatuan
09:50-10:00	Smart Recognition of Seven-Segment Displays Using CNN for Sustainable Monitoring in Green Technologies Ronnel Agulto, Harish Chawla, Julius Alvin Librando, and Carlos Miguel Castro

PARALLEL SESSIONS 8

DAY 3 (JUNE 28)

09:00-11:40 via Zoom

HUMAN-CENTERED AI AND MACHINE LEARNING APPLICATIONS: FROM WELLNESS TO ETHICAL AND SUSTAINABLE TECH

TIME	TITLE AND AUTHORS
10:00-10:10	<p>The ArchHive: A Linux-Based Monitoring Platform with Provisions for Future AI Integration in Equitable Learning Environments</p> <p>John Ray Cardeno, John Willter Lagapa, Alexis Mae Yano, and Ronnel Agulto</p>
10:10-10:20	<p>BiasX: A Feature-Based Framework for Explaining and Quantifying Gender Bias in Face Classification</p> <p>Rixdon Niño Mape, Jerwin Glen Lucero, and Jan Wilhelm Sy</p>
10:20-10:30	<p>MASID: Mobile Artificial Intelligence System for Image-Based Dish Generation: A Computer Vision and Prompt Engineering Application for Filipino Recipe Generation</p> <p>Andrei Vincent Collado, Joackim Pether Agno, Vince Craig Buenaventura, Robert Patrick Francisco, and Melvin Kong Cabatuan</p>
10:30-10:40	<p>Development of a Symptom Checker Application Utilizing a Large Language Model with Prompt Engineering in Providing Clinical Impressions</p> <p>Calvin Edward Coronado, Ghrazielle Rei de Ramos, Bruce Mercado, and Erica Bernardo</p>
10:40-11:40	Open Forum

PARALLEL SESSIONS 9

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

SUSTAINABLE FUTURES: ECOLOGICAL INNOVATION, GREEN TECHNOLOGIES, AND ENVIRONMENTAL CONSCIOUSNESS	
TIME	TITLE AND AUTHORS
09:00-09:10	Deep Ecological Analysis on the Imminent Application of Artificial Intelligence in achieving UN Sustainable Development Goals for the Environment Francis A. Villamora
09:10-09:20	First Report on the Leaf Ultrastructures of <i>Ficus ulmifolia</i> Lam. (Is-is) Nesse Grace Resurreccion and Mariquit De Los Reyes
09:20-09:30	Direct and Indirect Evaporative Cooling Using a Flat Plate Heat Exchanger Sherard Gilbert Ballon, Joseph Nathan Baluyot, Krisha Macalisang, and Raphael John Pruto
09:30-09:40	Perceptions and Behavioral Intentions Regarding Composting Among Students and Staff of Metro Manila Universities Using the Theory of Planned Behavior and Norm Activation Model Kharmella Nathasha De Guia Ngo, Julianne Katrina Yutankin So, Seth Samuel Kwong Villanueva, Trisha Gabrielle Castillo Villas, and Angelique Blasa Cheng
09:40-09:50	Analyzing the Water Quality Variation of Physicochemical Parameters in Bangon River in Palo, Leyte During Wet and Dry Weather Gessel Abordo, Arvel Alde, Jaren Larraga, Sergi Garbanzos, and Marla Maniquiz-Redillas
09:50-10:00	Exploring Spiritual Values and Environmental Consciousness for Awakening Ecological Sustainability in Youth Kavita Kumar and Shivani Gautam

PARALLEL SESSIONS 9

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

SUSTAINABLE FUTURES: ECOLOGICAL INNOVATION, GREEN TECHNOLOGIES, AND ENVIRONMENTAL CONSCIOUSNESS

TIME	TITLE AND AUTHORS
10:00-10:10	Real-Time Vegetable Detector with Freshness Detector and Nutritional Value Display Faith Shareine Teves, Louie Que, Jana Johannes Valenzuela, Alvin Josh Valenciano, and Samantha Louise Aldaba
10:10-10:20	Graphene Oxide/Indium Tin Oxide based Triboelectric nanogenerator (GiTO-TENG) for self-powering small-scale devices Mitzi Ramiah Garcia and Virgilio Ebajo
10:20-10:30	Optimized Synthesis of Titania–Cobalt Phthalocyanine (TiO₂-CoPc)-Coated Geopolymer Spheres for Efficient Visible-Light Photodegradation of Methylene Blue Renee Ordoña, Brenth John Infante, Derrick Ethelbherth Yu, and Eiza Shimizu
10:30-10:40	Legitimacy of Energy Development Corporation as the Green Bond Issuers towards achieving the SDGs Nathanne Rafaielle Acosta, Charlie Matthew Cantos, Jessica Maye Tillas, Raphael Hari-Ong, Dra. Maria Victoria Tibon, and Earl Eascareal
10:40-10:50	The Green Makeover: Biotechnology 2.0 for Sustainable Fashion & Beauty in the Philippines Yannikka Bata, Helena Bermudez, and Maxine Rebanal
10:50-11:50	Open Forum

PARALLEL SESSIONS 10

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

WORK, LEADERSHIP, AND THE EMERGING WORKFORCE: NAVIGATING BEHAVIOR, MOTIVATION, AND ORGANIZATIONAL RESILIENCE	
TIME	TITLE AND AUTHORS
09:00-09:10	Female Directors in Family- Controlled Firms: Does Family Affiliation Influence Performance? Madeleine Estabillo, Andrae Tecson, and Angelo Unite
09:10-09:20	Organizational Climate, Workplace Incivility, Employee Job Satisfaction and Intention To Stay In Business Process Outsourcing Companies Trixia Vivien Avengoza, Ma. Julia Balaguer, Rona Calvez, Alleah Joey Pat, Carlo Emil Mañabo, and Mary Rose De Mesa
09:20-09:30	Driven by the Norm: Investigating 'Internmaxxing' Intentions Through a Mixed Methods Approach Among Philippine Universities Shannen Dominique Go, Remil Angeline Plazuela, and Gwyneth Sy
09:30-09:40	Analyzing Non-Monetary Factors' Influence on Interns' Job Conversion Intent in Philippine SMEs Chynna Mandela Bondoc, Robert Joshua Enriquez, Carlos Vicente Lozano, Lois Sebastian Peralta, and Maria Adiel Aguilung
09:40-09:50	When Gen Zs 'quiet quit': Role of Leader-Member Social Exchange and Resilience Aceford Chua, Daniela Regina Jacinto, Nathalie May Libres, Lance Patrick Tiu, and Maria Victoria Tibon
09:50-10:00	Muted Potential: The Workplace Impacts of Perceived Introversion Mistreatment Stephanie Lim, Krizzia Anne Marie Tan, Tijmie Anne Tan, and Maricel Balatbat
10:00-10:10	Decoding Work-Life Balance: Dimensionality Reduction and Predictive Classification Lance Heinrich S. Lim, Lance Y. Natividad, and Shirlee R. Ocampo

PARALLEL SESSIONS 10

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

WORK, LEADERSHIP, AND THE EMERGING WORKFORCE: NAVIGATING BEHAVIOR, MOTIVATION, AND ORGANIZATIONAL RESILIENCE

TIME	TITLE AND AUTHORS
10:10-10:20	<p>Leading Through Chaos: Tackling Turnover in Philippine Start-ups with Transformational Leadership</p> <p>Erin Mikaela Ng, Sky Alecbryant Porras, Alleana Sotera Ranillo, Vahn Oswell Tan, Retchell Morales, and Maria Paquita Diongon-Bonnet</p>
10:20-10:30	<p>Understanding the Triple Helix of ESG Activities and Purchase Intention—A Mixed Methods Cross-Case Investigation of Consumer Response Mechanisms</p> <p>Madeleine Astrid Ang, Angeline Cristel Pua, Beal Cynric Sy, Justine Amanda Villacorta, Adrian Mabalay, and Liza Mae Fumar</p>
10:30-10:40	<p>Exploring How Filipino Nanoentrepreneurs Survive—Nay, Thrive—Through Resilient Reintegration</p> <p>Keindyll Maxine C. Bongado, Rica Francine F. Liqueste, Derrick P. Ong, and Levin C. Salac</p>
10:40-10:50	<p>Gen-Z Adaptation in FMCG: Critical Realist Study on Coping and Job Embeddedness</p> <p>Julianne Martina C. Dy, Cathrina Rae U. Salazar, Caryl Justine T. Tiu, Alyana Olivia I. Yu, and Shieradel V. Jimenez</p>
10:50-11:50	Open Forum

PARALLEL SESSIONS 11

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

SCIENTIFIC FRONTIERS IN STRUCTURE, SUSTAINABILITY, AND BIO-INNOVATION	
TIME	TITLE AND AUTHORS
09:00-09:10	Volcanic ash characterization and impact assessment during the 2024 Mt. Kanlaon Eruption Reilly Bautista, Jumar Cadondon, Jose Jr. Esmeria, Edgar Vallar, and Maria Cecilia Galvez
09:10-09:20	Root Tensile Strength of Bermuda Grass (<i>Cynodon dactylon</i>) Joel Galupino, Erica Elice Uy, Ram Voltaire Gonzaga, and Geofferson Montemayor
09:20-09:30	Comparative Study of Hole Stiffeners for Improved Compressive Strength of Cold-Formed Steel C-Section Members Bernardo Lejano, Mica Embuscado, Felicity Amoroso, John Vincent Limsico, and Miguel Carlos Panganiban
09:30-09:40	Utilization of Water Hyacinth Ash and Fly Ash Reinforced with Water Hyacinth Fibers in the Enhancement of Compressive and Split Tensile Strength of Concrete Bernardo Lejano, Liezel Rioflorido, Bernard Basilan, Lemuel James Oliva, and Rei Mari Gabriel Untiveros
09:40-09:50	Deciphering Dengue: A Bioinformatic Quest for TLR7/8-Recognized RNA Signals across Serotypes Alexi Nicole Angala, Lance Elizabeth Magat, Elaine Jan Mendoza, and Jane Abigail Santiago
09:50-10:00	Development of Robotics-Assisted Acid-Base Titration Setup and Laboratory Activity for Grade 11 STEM Learners Jupiter O. Yap, Johannes L. Remotigue, Ellen J. Castro, Aldrine A. Cagang, Sotero Jr O. Malayao, Joy R. Magsayo, and Joan Rose T. Luib

PARALLEL SESSIONS 11

DAY 3 (JUNE 28)

09:00-11:50 via Zoom

SCIENTIFIC FRONTIERS IN STRUCTURE, SUSTAINABILITY, AND BIO-INNOVATION	
TIME	TITLE AND AUTHORS
10:00-10:10	The Overturning Response of Rigid Blocks to Increasing Amplitudes of Sinusoidal Accelerations Daniel Christopher Jugno, Erich Alessandra Ignacio, Jannah Victoria Mendoza, Sean Anthony Zabala, and Lessandro Estelito Garciano
10:10-10:20	An Analysis of the Determinants Influencing Modular Construction in the Philippines: A Case Study in Bulacan Graciela Anne Marie Aloit, Dave Eugene Casangcapan, Natalie Kraut, Lessandro Estelito Garciano, and Allyanah Sofia Soriano
10:20-10:30	Virtual Screening Of Esculetin From Aloe vera (<i>Aloe barbadensis</i>) as a Potential VEGF Inhibitor Against Angiogenesis And Excessive DNA Replication Jeffrey Carlo Belmonte, Mac Rigel Gellego, Franco Alexis Balmoris, Jose Miguel Palitog, Bienvenido Amiel Delos Reyes, Mary Daphne Gail Ruiz, Jianah Chriselle Pondanera, Juriz Grace San Pedro, and Jane Abigail Santiago
10:30-10:40	Phenotypic Characterization and Molecular Identification of Leaf Litter Fungi from Mango Orchard at Central Luzon, Philippines Kristine Grace Waing, Llwelyn Espiritu, and Rich Milton Dulay
10:40-10:50	Evaluation of the Antioxidant Property and Total Phenolic Content of Wooly Joint Prickly Pear <i>Nopalea cochenillifera</i> (Linn.) Salm-Dyck Alyson Kathleen Aldas, Neil Aldrich Salarda, and Raymond Malabed
10:50-11:50	Open Forum

PARALLEL SESSIONS 12

DAY 3 (JUNE 28)

09:00-11:30 via Zoom

SOCIETY, LANGUAGE, AND WELLBEING IN A DIGITAL AND DEVELOPMENTAL PHILIPPINE LANDSCAPE	
TIME	TITLE AND AUTHORS
09:00-09:10	Say It Right: Generational Shifts in Kapampangan and the Language of Legal Rights Gina Ugalingan
09:10-09:20	Faith and Facebook: Religious Emotions and Divorce Discourse in the Philippines Gina Ugalingan
09:20-09:30	Philippine openness to trade determinants revisited Paulynn J. Castillo
09:30-09:40	Probing technostress factors in social media using the Techno Stressor-Techno Strain-Techno Outcome model: An examination of Filipino Facebook users Joel Andrew B. Cruz Jr
09:40-09:50	Physical Health Management of 4P's Learners in Calibungan High School Mylene R. Tan
09:50-10:00	Introducing a QOL Provider-Receiver Model for Assessing Disciplinary Contributions to Quality of Life: A Civil Engineering Perspective Andres Winston Oreta
10:00-10:10	The Effect of Well-Being on Savings Behavior: Evidence from the World Values Survey Madeleine Estabillo
10:10-10:20	Kapwa in Action: Entanglement of Relational Filipino Virtues with Dynamic Capabilities in Agri-Social Enterprises Alexa Andrea Abary, Jose Alessandro Roxas, Melka Pearl Antipolo, Hannah Sharmae Prado, and Patrick Adriel Aure

PARALLEL SESSIONS 12

DAY 3 (JUNE 28)

09:00-11:30 via Zoom

SOCIETY, LANGUAGE, AND WELLBEING IN A DIGITAL AND DEVELOPMENTAL PHILIPPINE LANDSCAPE

TIME	TITLE AND AUTHORS
10:20-10:30	Analyzing the Influence of Language Use on Sentiment Analyzers Using Reviews Gathered From Internet Platforms Patrick Kyle Ang Ngo Ching, Constantine Juris Chico, Darrin Lipardo, Miguel Anton Pedraja, and Charibeth Cheng
10:30-11:30	Open Forum



INSTRUCTIONS FOR ONSITE PAPER PRESENTATIONS GONG SHOW PRESENTATIONS

June 26, 2025

1. Your poster that you uploaded to EasyChair will be flashed on the screen during your presentation.
2. The presenter will be given two (2) minutes on stage to promote their poster during the Gong Show. Our session moderator will strictly impose the two-minute time limit.
3. Focus on the main problem, significance, main method, and important findings (if any).
4. Please be at the venue five (5) minutes before the start of the Gong Show. The moderator may give additional instructions or announcements before the start of the poster session. The poster session is expected to start on time.
5. You may speak in Filipino or English.

INSTRUCTIONS FOR ONSITE PAPER PRESENTATIONS

PARALLEL SESSIONS 1-5

June 27, 2025

1. We will not be using the projectors and slide presentations. Our format is huddle and conversation.
2. You may bring your flipcharts for the too-technical portions of your paper.
3. Each presentation should be about 10 minutes long. Our moderators will strictly impose the 10-minute time limit.
4. Focus on the main problem, significance, main method, important findings, and conclusion of your paper.
5. The Open Forum will be at the tail end of the panel session. No questions will be accommodated until all presenters in the session have presented their papers.
6. Presenters should stay until the end of the session's Open Forum so they may be able to respond to questions addressed to them.
7. Please be at the venue five (5) minutes before the start of the session. The moderator may give additional instructions or announcements before the start of the session. The sessions are expected to start on time as there are a large number of presentations for each session.
8. You may speak in Filipino or English. But for panels with international participants, please use the English language.



INSTRUCTIONS FOR ONSITE PAPER PRESENTATIONS

PARALLEL SESSIONS 6-12

June 28, 2025

1. Please prepare your presentation slides.
2. Each presentation should be about 10 minutes long. Our moderators will strictly impose the 10-minute time limit.
3. Focus on the main problem, significance, main method, important findings, and conclusion of your papers.
4. You may pre-record your presentations and play the recording during your time slot.
5. Please make sure that your internet connection is strong and steady. If your internet connection is unreliable, ask a friend somewhere to play your recorded presentation for you.
6. The Open Forum will be at the tail end of each panel session. No questions will be accommodated until all presenters in the session have presented their papers.
7. Presenters should stay until the end of the session's Open Forum, so they may be able to respond to questions addressed to them.
8. Please be at the Zoom Meeting room five (5) minutes before the start of the session. The moderator may give additional instructions or announcements before the start of the session. The sessions are expected to start on time as there are a large number of presentations for each session.
9. You may speak in Filipino or English. But for panels with international participants, please use the English language.

HAVE CONCERNS?

Contact the DLSU Research Congress Secretariat via the following emails:

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