

The 12th International Exchange and Innovation Conference on Engineering & Sciences IEICES 2026



Conference Program

October 28th, 29th & 30th, 2026

❖ *The conference program time follows **Japan Standard Time (JST)***

Venue

Chikushi Campus, Kyushu University
6-1 Kasuga-Koen, Kasuga
Fukuoka, 816-8580, Japan

First Day

Oct.28th (Wednesday)

09:30	10:00	Registration (Lobby, C-Cube Building)
10:00	10:10	Welcome Speech: Prof. Osama Eljamal
10:10	10:40	Opening Remarks and Introduction to IGSES: Dean of IGSES: Prof. HATA Satoshi
10:40	11:00	Photo Session and Coffee Break

Keynote Session K1 (Chikushi Hall)

Session Chair ITAIWI Alaa

11:00	11:35	Title: Standalone Green Hybrid Charging Station for Electric and Hydrogen Vehicles in African Countries. Speaker: Professor Sameh Mohamed Abd Elwahed Nada, E-JUST University.
11:35	12:10	Title: Experimental determination of indoor and outdoor airflow around generic block arrays. Speaker: Professor Naoki Ikegaya, Kyushu University.
12:10	13:30	Break

Session 1

Venue	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
Session Chair	Wu Binsheng	Sam Bessai	Heba Mohamed
13:30 13:40	IEICES 12-022 Mineralogical Influence on the Geotechnical Properties of Alluvial Soils from Selected River Systems in Luzon, Philippines Irene Olivia Ubay-Anongphouth , Joenel Galupino, Dana Sien Abada, Daniel Royce Bracamante, Adrian Da Silva, Mark Lyndon Mengote De La Salle University, Philippines	IEICES 12-151 Development of an IoT-based Wearable Sitting Posture Monitoring System Nadiyah Hanisah Mohd-Sha’ari, Marlina Yakno , Siti Sarah Norman, Noorazliza Sulaiman, Khursiah Zainal-Mokhtar Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-012 Fiberboard Production from Vetiver Grass (Chrysopogon zizaniodes) Using Cassava Starch Adhesive Ralph Vincent M. Elorete, Marife L. Pesino Central Bicol State University of Agriculture, Philippines
13:40 13:50	IEICES 12-024 Sustainable Utilization of Demolished Pavement as Recycled Coarse and Fine Aggregates Florante D. Poso, Jr. , Danilo L. Santillan Polytechnic University of the Philippines	IEICES 12-175 Edge-Based AI Adaptive Traffic Signal Optimization for Smart Urban Mobility in Medium-Sized Cities Edgardo Ricardo B. Sajonia Jr. , Anamarie P. Sajonia, Lourence Alvizo, Kristel Jane Donan, Ralph Angelo Gonzaga, Jevan Monte Racaza, Kier Suralta Caraga State University, Philippines	IEICES 12-097 AnemoSense: An IoT-Based Ground-Level Hazardous Gas Sensing and Alert Notification System Attachable to a Ground Remotely Controlled Unmanned Vehicle for Confined Spaces Carlos Miguel S. Dimla, Wenzel E. Reyes, Ervine E Languino , Ronieto N Mendoza Caraga State University, Philippines
13:50 14:00	IEICES 12-033 Leadership Style in Construction Project Management: A Recent Systematic Review Using PRISMA Framework Mohd Anuar Mohamad, Musmuliadi Kamaruding , Mohamed Farhan Mohamed, Abang Mohd Razif Abang Muis, Muhammad Taqiyuddin Che Ab Malik Universiti Teknologi MARA, Malaysia	IEICES 12-189 Improvement of PSA Oxygen Concentrator Performance via a Proposed Adsorption Column Layout Lerson Kirasamuthranon, Thanadej Promploy , Thanyathip Prasert and Paleerat Wongchampa King Mongkut’s University of Technology North Bangkok, Thailand	IEICES 12-195 ML-BaHa: Operationalizing Surrogate Machine Learning for Real-Time Flood Hazard Mapping in Camarines Sur, Philippines Jerome P. Romero , Maurice A. Duka, Ph.D, Rubenito M. Lampayan, PhD, Ronaldo B. Saludes, PhD Institute of Agricultural and Biosystems Engineering, University of the Philippines Los Baños
14:00 14:10	IEICES 12-034 Estimating the Cost of DepEd School Buildings in the Philippines Using Regression-Based Machine Learning Nicanor R. Roxas, Jr. , Danica Mae R. Legaspi, Carl Nelson D. Libarnes, David Gerardo E. Ponio, Alyssa Winslet C. Sebastian, and Cheryl Lyne C. Roxas De La Salle University, Philippines	IEICES 12-198 Comparative Performance Evaluation of Deep Learning Architectures and Activation Functions for Breast Cancer Classification Nur Farah Alina Adzmi, Noorazliza Sulaiman , Abdul Nasir, Marlina Yakno, Waheb A. Jabbbar Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-214 Assessing the Yield–Waste Relationship in Rice Production Systems: A Comparative Spatiotemporal Analysis of Butuan City and Remedios T. Romualdez (RTR), Agusan del Norte, Philippines Lorie Cris S. Asube , Roland Emerito Otadoy Caraga State University, Philippines
14:10 14:20	IEICES 12-035 Image-based Analysis of Soil Modal Particle Size Using Convolutional Neural Networks Jose Manuel U. Subido , Erica Elice S. Uy, Joenel G. Galupino	IEICES 12-302 Field Evaluation of an RFID-Authenticated Smart Switching and Energy Monitoring System for Classroom Energy Accountability	IEICES 12-281 Characterization and Evaluation of Dami Papua New Guinea Oil Palm Empty Fruit Bunch Ash as a Potential Source of Potassium for Soil Amendment

	De La Salle University, Philippines	Jielo B. Jusay, Vince Cosares, Jaybie T. Sanjorjo, Erickson A. Tacda Caraga State University, Philippines	Jhonley Omamalin , Reah Lee P. Vasquez, Joan Jane J. Sanchez Caraga State University - Main Campus, Philippines
14:20 14:30	IEICES 12-044 Characteristic Capacity of Dowelled Mortar Infill Bamboo Q-connections Hui Fei Zhang, Maria Fe Adier, Jomari Tan, Jason Maximino Ongpeng, Daniel Nichol Valerio De La Salle University, Philippines	IEICES 12-216 Sensor-Fused Resnet-18 For Non-Destructive Lettuce Growth John Peter Baldo, Beldwin P. Lagahit, Erickson Tacda Caraga State University, Philippines	IEICES 12-287 CARBON FOOTPRINT ASSESSMENT AND VISUALIZATION FOR HIGHER EDUCATION INSTITUTIONS Nur Ain Syafiqah Binti Mohd Salleh , Ts. Dr. Roziah Binti Zailan, Dr. Suhaidah Binti Hussain Universiti Malaysia Pahang Al-Sultan Abdullah

14:30 15:00

Break

Session 2

<i>Venue</i>	3 rd floor C-cube building
<i>Session Chair</i>	<i>Ali Farvardin</i>
15:00 -16:30	Poster session

❖ Notice: The list of posters is included in the final pages of the conference program

Session 3

<i>Venue</i>	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
<i>Session Chair</i>	<i>Odai Elfeghih</i>	<i>Ekrima Astari</i>	<i>May Rafat</i>
16:35 16:45	IEICES 12-083 Evaluating the Influence of Spent Coffee Grounds Biochar on the Index Properties of Clay Erica Elice S. Uy , Angelo Joshua Shin D. Gaita, Eliza Tiara Q. Garcia, Juan Miguel D. Limjoco De La Salle University, Philippines	IEICES 12-231 Low-Cost Smart Plug with Idle-Load Cut-Off and Appliance Fingerprinting Using Electrical Signatures Myrell Joy B. Reas, Demjie Y. Tolibao, Melgie Rose C. Acero , Erickson A. Tacda Caraga State University, Philippines	IEICES 12-346 Beyond Thermal Indices: A Review Integrating Microclimate Physics and Human Perception in Outdoor Thermal Comfort Assessment Pakinam Hassan , Nourhan M. Waly Egypt-Japan University of Science and Technology
16:45 16:55	IEICES 12-096 A Hydrology-Hydraulics Consistency Framework for Rating Curve Reconstruction: Application to Streamflow Data Rehabilitation in the Klang River Basin Ahmad Fakhri Bin Ishak , Lee Wei Koon, Lim Foo Hoat, Nor Eliza Binti Alias, Noraliani Binti Alias Universiti Teknologi Malaysia (UTM)	IEICES 12-272 Lightweight Deep Learning for Real-Time Face Mask and Hairnet Compliance Monitoring on Resource-Constrained Edge Device Janna Joyce Jumao-as; Francis Jann Alagon ; Earl Ryan Aleluya; Carl John Salaan Mindanao State University - Iligan Institute of Technology, Philippines	IEICES 12-349 AI-Enabled Plastic-Pollution Monitoring and Remediation Management: An Uncertainty-Aware Hotspot Framework for Andhra Pradesh Coastal and Urban Sites Kambhampati Teja, Ch. V. Murali Krishna , Nirban Laskar, K. V. Sambasiva Rao , Suneetha Davuluri, Venugopal Boppana RVR NRI Institute of Technology, Deemed to be University, India
16:55 17:05	IEICES 12-120 Experimental Assessment of Flexural Response and Serviceability Characteristics of Reinforced Concrete Bubble Deck Slabs under Four-Point Bending Shahrul Niza Mokhtatar , Hanim Sofea Harmiyn Sany, Abang Abdullah Abang Josmani, Ahmad Fahmy Kamarudin, Seyed Jamalaldin Seyed Hakim, Monthian Setkit University Tun Hussein Onn Malaysia	IEICES 12-282 Design and Evaluation of an IoT-Enabled Post-Flood Electrical Safety System for Outlet-Level Isolation and Safe Power Restoration Jun Kervie A. Esteban, Pol Jay R. Amor, Victor B. Arlan , Erickson A. Tacda Caraga State University, Philippines	IEICES 12-351 Performance, Cost, and Adoption Potential of Permeable Pavement for Sustainable Urban Stormwater Management in the Philippines Danielle Alexandrine Madriaga, Christian Orozco University of the Philippines Diliman
17:05 17:15	IEICES 12-139 Enhancing Quality Control in Philippine Flood Control Projects through a Multi-Criteria Risk Management Maturity Framework: An AHP Approach Juanito D. Cunanan	IEICES 12-307 Portable Modular Multi-Sensor Energy Audit Kit for Room-Level Monitoring and Automated Compliance Reporting Kenneth C. Tambong, Chrisitan L. Alag, Erickson A. Tacda Caraga State University, Philippines	IEICES 12-356 An Uncertainty-Aware AI Framework for Plastic Pollution Monitoring, Hotspot Prioritization, and Remediation Management in Coastal and Urban Environments K V Sambasiva Rao* , Kambhampati Teja, Nirban Laskar, Suneetha Davuluri,

	Pamantasan ng Lungsod ng Maynila, Philippines		Ch. V. Murali Krishna, Venugopal Boppana DR RVR NRI Institute of Technology (Deemed to be University), India
17:15 17:25	IEICES 12-176 IoT- Enabled Smart Forward Osmosis Systems for Chlorella Vulgaris Harvesting: A Mini Review Yang Weimin , Munira M., Aida Isma M.I., Ma. Grace Sumaria Segi University, Malaysia	IEICES 12-316 Classification of Harumanis Mango Leaf Diseases using EfficientNetB0 and ResNet50 Uswatul Wahida Mohd Sharif* , Fathinul Syahir Ahmad Saad, Muhammad Khairul Ali Hassan, Sukhairi Sudin, Shafriza Nisha Basah, Haniza Yazid Universiti Malaysia Perlis	IEICES 12-403 GIS-Based Assessment of Groundwater Potential for Shallow Tube Well Suitability for Small-Scale Irrigation in the Municipality of Banga, Aklan Sheanne Anne V. Candari, Kynt Angelo N. Antigo, John John C. Florencio, Melba L. Raga-as , and Floramae P. Robes Aklan State University, Philippines
17:25 17:35	IEICES 12-196 A Sustainable Approach for Slope Stabilization Using Magnesium Rich Synthetic Gypsum (MRSG) and Fly-Ash Modified Cement Grout Muhammad Shafiq Danial Eizmeer Johar , Nurmunira Muhammad, Mohd Fakhrurrazi Ishak, Solahuddin Daud Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-412 Breast Cancer Classification via Federated CNN-GRU-Attention Learning with Explainability Md Sadi Al Huda, Md. Shamsul Alam, Sadia Tadriss, Neyamul Islam, Md. Asraf Ali, Syamimi Mardiah Shaharum Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-416 Automatic Object Detection From UAV Orthophotos Using Fast R-CNN For Geospatial Mapping Applications Mohd Khairul Bazli Bin Mohd Aziz , Aiman Fithri Bin Tharmizi, Wan Rozaimi Bin Wan Mustafa Universiti Malaysia Pahang Al-Sultan Abdullah
17:35 17:45	IEICES 12-206 Decoding Liquefaction-Induced Lateral Spreading on Gently Sloping Ground: An Interpretable Machine Learning Approach Jonathan R. Dungca and Emerzon S. Torres De La Salle University, Philippines	IEICES 12-419 ARAN: Attention-Residual Adaptive Network for Federated Melanoma Detection with Gradient-Based Explainability Md Sadi Al Huda, Onamika Sarker Ritu, Neyamul Islam, Md. Shamsul Alam, Md. Asraf Ali, Syamimi Mardiah Shaharum Khwaja Yunus Ali University, Bangladesh	IEICES 12-433 Effects of Aromatic Scents on Thermal Comfort and Fragrance Perception under Different Indoor Temperatures in a Tropical Office Environment Gousineyah Nageswara Rao, Sheikh Ahmad Zaki , Manoj Kumar Singh, Hom Bahadur Rijal Malaysia-Japan International Institute of Technology (MJIIIT)
17:45 17:55	IEICES 12-207 Assessment of SME-Based Construction Firms' Awareness and Readiness in Adopting Project Management Tools to Enhance Project Efficiency Rochelle Mae H. Aglibot , Rodelle C. Lavarrias, Joseph Berlin P. Juanzon, Vien Carlo M. Amora, and Jared Aaron R. Cruz Pamantasan ng Lungsod ng Maynila, Philippines	IEICES 12-428 Kidney Stone Detection via Urinalysis: A Federated Explainable Machine Learning Approach Md Sadi Al Huda, Md. Shamsul Alam, Anika Sarker Emo, Md. Asraf Ali, Syamimi Mardiah Shaharum American International University-Bangladesh(AIUB)	IEICES 12-452 Bayesian Mixture Modeling for Analyzing an Annual Rainfall Pattern: A Case Study in Indonesia Suci Astutik , Eni Sumarminingsih, Risma Hartanti Putri Yulianing Damayanti Department of Statistics, Faculty of Science, Technology, and Mathematics, Universitas Brawijaya, Indonesia
17:55 18:00	Closing Remarks		

Keynote Session K2 (Chikushi Hall)

Session Chair ITAIWI Alaa

09:30 10:05 Title: Non-covalent Interaction-Controlled Site-selective C–H Transformations.
Speaker: Professor Yoichiro Kuninobu, Kyushu University.

10:05 10:40 Title: Powering the Future: New Materials for Clean Energy and Sustainability.
Speaker: Professor Ahsan Ul Haq Qurashi, Khalifa University.

10:40 11:00

Break

Session 4

Venue	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
Session Chair	Ahmed Mady Ahmed Ismail	Rizwan Ul Haq Qurashi	Safaa Amer Abbas Mahmoud
11:00 11:10	IEICES 12-209 Stochastic Evaluation of a Reference Bamboo Structural Model under Load and Material Uncertainty Nurwin Adam G. Muhammad , Jerson N. Orejudos, Mary Joanne C. Aniñon, Lessandro Estelito O. Garciano Mindanao State University - Iligan Institute of Technology, Philippines	IEICES 12-434 Beyond Binary: A Federated, Explainable Stacking Framework for Thirteen-Class Diabetes Subtype Classification Md Sadi Al Huda, Md. Shamsul Alam, Shimanto Kumar, Md. Asraf Ali, Syamimi Mardiah Shaharum Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-555 Biologically active compounds of <i>Thymus incertus</i> L. growing in the southern region of Kyrgyzstan Kalipa Salieva , Nurbek Aldayarov, Emil Omurzak, Elina Karimova, Akinai Muhammad kyzy, Bakyt Borkoev, Ziyadat Salieva, Aigul Bechelova Kyrgyz-Turkish Manas University, Kyrgyzstan
11:10 11:20	IEICES 12-211 Optimization of Aerated Coagulation for Ammonia Nitrogen Removal for Matured Leachate using Response Surface Methodology Nurul Izzati Jamil, Nur Shaylinda Mohd Zin , Laila Wahidah Mohamad Zailani, Nur Ain Natasha Abdul Rasid, Nur Syuhadah Mohd Samsul Arif, Siti Nor Aishah Mohd Salleh Universiti Tun Hussein Onn Malaysia	IEICES 12-439 Design and Development of a LoRa-Based Tracking System with IoT-Based Performance Evaluation for Dump Truck Monitoring in Surface Mining Operations Kian John M. Besin, Alexander T. Demetillo , Lovely Mae Dagsa, Alfred Dennis B. Balamad Caraga State University, Philippines	IEICES 12-561 Design and Optimization of a Multi-Layer Ag-GAC Filter for Decentralized Emergency Water Supply Hans Xavier R. Cleofe, Karla Mae A. Estrada, Kier A. Platero, Marvin L. Samaniego University of Santo Tomas, Philippines
11:20 11:30	IEICES 12-240 Xanthan Gum Biopolymer as a Soil Additive for Improving Shear Strength of High-Plasticity Silty Sand Jhennica Louise S. Batario, Keith Alec C. Go, Alexander S. Leyva, Samantha Rose L. Santos, Jomari F. Tan , Erica Elice S. Uy De La Salle University, Philippines	IEICES 12-441 LeukoBench-Transformer: Morphology-Guided Patch Tokenization with Calibrated Uncertainty Referral for Four-Class ALL Subtype Classification Md Sadi Al Huda, Shimanto Kumar, Romana Rahman, Md. Asraf Ali, Syamimi Mardiah Shaharum Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-592 AI-Driven Infographic Systems for Communicating Environmental Awareness Through Digital Media Campaigns Yomna M. Yakout Egypt-Japan University of Science & Technology (E-JUST)
11:30 11:40	IEICES 12-260 Seismic Fragility Assessment of Cold-Formed Steel Building with Vertical Geometric Non-regularity Yiesha Kyra N. Estrada , Mary Joanne C. Aniñon, Randy B. Salazar, Lessandro Estelito O. Garciano De La Salle University, Philippines	IEICES 12-474 Integrating Computer Vision into Hospitality Education: Development of an AI-Based Glassware Learning Tool Welfredo F. Cabelite Jr. , Jolitte A. Villaruz, Dennis M. Barrios II, Miquel Von R. Oquendo Aklan State University, Philippines	IEICES 12-600 Phycoremediation of analgesic-contaminated wastewater: A 10-Year Bibliometric Analysis May Rafat , Reda A. Elkhyat, Mohamed A. Ghazy, Osama Eljamal Kyushu University, Japan
11:40 11:50	IEICES 12-261 Seismic Fragility Assessment of a Cold-Formed Steel Building with Reentrant Corner Non-regularity Victor Ruben B. Yu , Mary Joanne C. Aniñon, Randy B. Salazar, Lessandro Estelito O. Garciano De La Salle University, Philippines	IEICES 12-476 Design and Development of a Windowed Watchdog Timer for Safety-Critical Embedded Systems Jonel P. Perlado, Lovely Mae Dagsa, Jeffrey T. Dellosa , Alfred Dennis B. Balamad Caraga State University, Philippines	IEICES 12-531 Towards a Data-Driven Framework for Integrating and Analyzing Microplastic Pollution Data Erish T. Daranciang , Paul Rossener D. Regonia, Adrian Roy L. Valdez, Lance Oliver C. Licnahan, Paul Samuel P. Ignacio, Deo Florence L. Onda University of the Philippines Diliman
11:50 12:00	IEICES 12-269 Productivity Performance of an Automated Precast Concrete Fabrication Line: An Industrial Case Study in Malaysia Rozana Zakaria Universiti Teknologi Malaysia	IEICES 12-202 A Hybrid GWO–WOA Framework for BERTopic Hyperparameter Optimization in Teacher Attrition Topic Modeling Roldan Santiago V. Ferrer, Junrie B. Matias , Evelyn B. Ballenas Caraga State University, Philippines	IEICES 12-226 Remediation of Antibiotic Contaminants in Aquatic Systems: A Critical Mini Review of Current Methodologies and Future Trajectories Juliana G. Moussa, Tamer Nasr

			Faculty of Pharmacy, Egypt-Japan University of Science and Technology (EJUST)
12:00 12:10	IEICES 12-270 Sustainable Concrete Paver Blocks Using Cement Board Waste Dust Norwati Jamaluddin Universiti Tun Hussein Onn Malaysia	IEICES 12-327 Plan-Act-Reflect: A Reinforcement Learning Framework Using Vision-Language Models for Mental Modeling and Feedback Jerson Carin, Ricajean Baguhin, Rudolph Joshua Candare Caraga State University, Philippines	IEICES 12-114 Stacked XGBoost–LightGBM Ensemble for Refrigerant Screening: Accurate Prediction of Coefficient of Performance and Cooling Capacity in Vapor Compression Systems Koushiki Devi Agarwalla, Nusrat Jahan Mithila, Mst. Sonia Akter Hira, Md. Amirul Islam , Md. Sazzadur Rahman, Bidyut Baran Saha Jahangirnagar University, Dhaka, Bangladesh
12:10 12:20	IEICES 12-283 Understanding the Role of Access and Egress Modes in Inter-City Bus Travel: A Case Study of Bus Terminals in Metro Manila and Pampanga, Philippines Jefferson Abad, Lance Mamuyac, Riches Bacero , Alexis Fillone De La Salle University, Philippines	IEICES 12-236 Optimizing OpenAI's Custom GPT's Efficiency in Handling Higher Education Admission Queries Carolyn F. Salazar , Juvy M. Casimero, Walter P. Toriano, Jess Z. Masula Aklan State University, Philippines	IEICES 12-284 Enhancing Coir Geotextiles With RC-RHA Blend Blased Geopolymer Reinforced With Bacterial Nanocellulose for Slope Stabilization Haphis S. Hairulla , Allia D. Hadji Ali, Justine F. Orcales, Maria Shiela K. Ramos, Glen A. Lorenzo, Kristine Sanchez-Companion Mindanao State University - Iligan Institute of Technology (MSU-IIT), Philippines
12:20 12:30	IEICES 12-288 Material Suitability and Quality-Control Framework for Cabadbaran Aggregates and Class C Fly Ash for Roller-Compacted Concrete Carmel S. Burlat , Ramelito C. Agapay, Joenel Galupino University of San Carlos, Philippines	IEICES 12-299 A Multi-Head Attention-Integrated Tacotron2 Approach for Speech Synthesis: Developing a Natural-Sounding TTS for Ata, Manobo Language Preservation Ronald V. Musico, Rhenmark Rey A. Obedencio, Cristopher C. Abalorio Caraga State University, Philippines	IEICES 12-328 Sleep Quality Responses to Oxygen-Enriched Room Condition Naja Aqilah , Sheikh Ahmad Zaki, Muhammad Faiz, Mohamad Faizal, Fitri Yakub, Pawel Wargocki Tropical Indoor Environment Research Laboratory, Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia
12:30 12:40	IEICES 12-304 Toward Optimized Polymeric Cementitious Composite Strengthening of RC T-Beams: A Parametric Investigation under Negative Bending Banu Ardi Hidayat , Gathot Heri Sudibyo, Nanang Gunawan Wariyatno, Hsuan-Teh Hu, Fu-Pei Hsiao, Laurencius Nugroho, Eva Priyanti, Bobby Rio Indriyantho, Mhd. Rony Asshidiqie, Yanuar Haryanto National Cheng Kung University, Taiwan	IEICES 12-517 Development of a Data Governance Maturity Model (DGMM) for Student Data in Hybrid IT Infrastructures of Higher Education Daisa O. Gupit, Jaymer M. Jayoma Caraga State University, Philippines	IEICES 12-177 Evaluation of the Wound-Healing Activity of Ointments Containing Silver and Copper Nanoparticles Emil Omurzak, Abduraym Satyvaldiev, Momun Arzybaev, Fatima Emil kyzy Kyrgyz-Turkish Manas University, Kyrgyzstan

12:40 13:00

Break

Session 5

Venue

3rd floor C-cube building

Session Chair

Ali Farvardin

13:00 -14:30

Poster session

❖ Notice: The list of posters is included in the final pages of the conference program

Session 6

Venue	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
-------	----------------------	----------------------	---------------------------

<i>Session Chair</i> <i>Luo Yi</i>		<i>Mawufemor ZIGAH</i>	<i>Md. Amjad Hossain</i>
14:35 14:45	IEICES 12-336 Preliminary Experimental Study on the Flexural Response of Steel Fiber-Reinforced Mortar Beams Anggun Tri Atmajayanti, Habib Raihan Suryanto , Hsuan-Teh Hu, Fu-Pei Hsiao, Laurencius Nugroho, Banu Ardi Hidayat, Mhd Rony Asshidique, Yanuar Haryanto National Cheng Kung University, Taiwan	IEICES 12-262 Edge-Optimized YOLOv8n for Resource-Constrained Environments: A 97.7% Memory Reduction Case Study in Industrial Hardware Detection Erwin Carlo I. Gonzales , Vicente A. Pitogo De La Salle University, Caraga State University, Philippines	IEICES 12-335 Composition and Properties of Technical Ceramics Based on Kara Korum Wollastonite Bakyt Borkoev, Emil Omurzak, Altynai Abdurashit kyzy Kyrgyz-Turkish Manas University, Kyrgyzstan
14:45 14:55	IEICES 12-350 Mechanical Properties of Class B Concrete Incorporating Alkali-Treated Banana Leaf Sheath Fibers Samantha Mae T. Domingo, Kyla Mae A. Maisling, John Rey Q. Elardo Caraga State University, Philippines	IEICES 12-094 Hybrid Path Planning for Autonomous Systems Using a Half-Sweep Modified TOR Algorithm A'Qilah Ahmad Dahalan , Azali Saudi Universiti Pertahanan Nasional Malaysia	IEICES 12-375 Khellin ameliorates ischemic brain damage in mice through downregulation of inflammation and apoptosis: evidence from network pharmacology, molecular docking, and in vivo modeling. Waleed Barakat , Nader E. Abo-Dya, Ebaa Mohammed Zagazig University, Egypt
14:55 15:05	IEICES 12-497 Performance of Abaca (Musa textilis Nee)-Based Concrete Confinement Systems: Fiber-Reinforced Engineered Cementitious Composite Incorporating Banana Leaf Ash and Textile-Reinforced Mortar Earl Gerald L. Gregorio National University, Philippines	IEICES 12-324 Performance of a One-Stage Object Detection Model for Dried Cacao Bean Quality Under Different Background Colors Arnold G. Apdohan , Rossana Marie C. Amongo, Arthur L. Fajardo, Fernando O. Paras Jr., Arnold R. Elepaño Caraga State University, Philippines	IEICES 12-376 Development of a smartphone-based colorimetric sensor using citrate-capped gold nanoparticles for the detection of Trichuris trichiura ova Jon Christian Dela Torre, Dayle Jewel Mallari, Kristine Kyla Mapacpac, Cristina Tiangco University of Santo Tomas, Philippines
15:05 15:15	IEICES 12-588 Bioretention Swales as Green Infrastructure for Urban Drainage Retrofit: A Case Study of Pahlawan Street, Bandung, Indonesia A.Andini Radisya Pratiwi , Abdul Chalid, Adriadi, Rosadi, Djoko Pitoyo, Muhammad Syukri, Dea Yunita Sari, Poppy Indrayani, Heba Hassan Ismail, Muhammad Ikram Ulman Idris Universitas Sangga Buana, Indonesia	IEICES 12-369 Enhanced DenseNet-121 with Adaptive Weight Regularization for Robust Dental Disease Classification Daryl John C. Ragadio , Roy N. Villalobos, Gerry DG. Oraya Jr., Danilo V. Rogayan President Ramon Magsaysay State University, Philippines	IEICES 12-093 Comparative Performance of Soap and Non-Soap Waste Cooking Oil-Based Greases for Sustainable Lubrication Applications Mohd Aiudin Bin Abd Aziz Universiti Malaysia Pahang Al Sultan Abdullah
15:15 15:25	IEICES 12-590 Drone Implementation in Malaysian Construction Projects for Digital Project Delivery Siti Rashidah Mohd Nasir and Nurul Husna Baharudin Advanced Sociotechnical Construction Management, Faculty of Civil Engineering, Universiti Teknologi MARA Shah Alam, Malaysia	IEICES 12-380 Enhancing Access to Islamic Theology through an AI-Powered Mobile Dictionary with Semantic Search and Speech-Based Retrieval Mohd Hasrul Shuhari , Mohd Kamir Yusof, Wan Mohd Amir Fazamin Wan Hamzah, Nurul Husna Mohd Pidrus Universiti Sultan Zainal Abidin (UniSZA), Malaysia	IEICES 12-108 Copper-Containing MOFs as Promising Adsorbents for Industrial Wastewater Treatment: A Review of Mechanisms and Applications Daurzhan Zhumabekov, Yerkebulan Raiymbekov , Ulzhalgas Nazarbek, Perizat Abdurazova, Galiya Kambarova M.Auezov South Kazakhstan University

15:25 15:35	IEICES 12-598 A Deep Learning Framework for Interpretable Identity Extraction in Historic Urban Landscapes Rami Derbel , Nobuo Mishima Saga University, Japan	IEICES 12-589 Development of RAG for OpenCTI Threat Feeds using LLMA3.18B Model Almira Damia Syahnizam, Ku Muhammad Naim Ku Khalif, Mohamad Zaharuddin Ahmad Darus, Tay Chai Jian, Mohd Khairul Bazli Mohd Aziz , Alexander Gegov Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-137 Comparative Alkali Treatment Optimization for Cellulose Extraction and Dielectric Performance of Sugarcane Waste and Pineapple Leaf Syazana Aimuni Ayub, Norazwina Zainol , Aisya Nabila Norisam, Nor Hazwani Aziz, Gema Fitriyano, Sunarti Abd Rahman, Nur Sofia Idayu Didik Aprianto, Mohamad Shaiful Abdul Karim Universiti Malaysia Pahang Al-Sultan Abdullah
15:35 15:45	IEICES 12-125 A Network-Based Framework for Cascading Risk Assessment of Climate Change Impacts on Interdependent Infrastructure Systems: A Case Study of Metro Manila Gecille R. Mallillin, Joseph Berlin P. Juanzon, Randy B. Salazar and Juanito D. Cunanan Graduate School of Engineering, Pamantasan ng Lungsod ng Maynila, Philippines	IEICES 12-092 Predictive Maintenance Framework for Public Bus Fleets: Integrating Isolation Forest for Early Anomaly Detection and Performance Visualization Zahin Zikri Zawawi, Muhammad Afiq Abdul Rahim, Mohd Azri Rosli, Nor Azuana Ramli Universiti Malaysia Pahang Al-Sultan Abdullah	IEICES 12-190 Phosphate Removal from Simulated Wastewater Using Nile Tilapia (<i>Oreochromis niloticus</i>) Fish Scale-Derived Activated Carbon Jessica R. Aguinaldo, Zheena Jane B. Brazil, Prince Clifford Cedric B. Ruiz, Eric R. Halabaso, Sharona Q. Barroga, Khyle Glainmer N. Quiton, Aileen Grace M. Fronda . Mariano Marcos State University; Mapúa University; Tokyo University of Agriculture and Technology, Philippines

15:45 16:15

Break

Session 7

Venue	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
Session Chair	Wu Binsheng	May Rafat	Sam Bessai
16:15 16:25	IEICES 12-457 Valorization of Waste Plastic Bottles as Cement Replacement in Optimized Concrete Blocks: Towards Circular Construction Hatem Mahmoud , Ewald Kuoribo, Aya Essa Egypt Japan University of Science and Technology, Egypt	IEICES 12-138 AIoT-Based Mobile Application for Real-Time Monitoring of YOLOv8n Egg Fertility Detection and IoT Incubator Management Alger S. Bucag Jr, Junar A. Landicho Camiguin Polytechnic State College, University of Science and Technology of Southern Philippines	IEICES 12-341 Effects of Thermal Processing and Pretreatments on the Microbial Load of Watermelon Peels and Rinds from Three Cultivars Using Principal Component Analysis (PCA) Danica Marie B. Aposaga , Jessebel V. Gadot, and Jemaica S. Labus University of Antique, Philippines
16:25 16:35	IEICES 12-565 First Flush Characteristics of Lead (Pb) in Parking Lot Stormwater Runoff Following Short Antecedent Dry Days Zerick Lee M. Adang, Jay Manzano Navaluna College of Engineering and Information Technology/ University of Southern Mindanao, Philippines	IEICES 12-127 HAPSAY: A Retrieval-Augmented Generation System of Multi-Agency Regulation Compliance for State Universities and Colleges in the Philippines Melbert R. Bonotan, Nathan Kit A. Berro Caraga State University, Philippines	IEICES 12-002 Development and Performance Evaluation of Low-Cost Construction Materials for Developing and Disaster-Resilient Communities Muhammad Hidayat Tugiman, Siti Mariam Norrulashikin , Nur Arina Bazilah Kamisan, Siti Rohani Mohd Nor, Nur Syazwin Mansor, Rahmah Mohd Lokoman, Aimi Athirah Ahmad, Evellin Dewi Lusiana Universiti Teknologi Malaysia (UTM), Malaysian Agricultural Research and Development Institute (MARDI), and Universitas Brawijaya Indonesia (UB)
16:35 16:45	IEICES 12-028 Evaluation of Engineering and Microstructural Properties of Philippine Quarry Waste Limestone for Road Base Course Application Emerzon S. Torres , Mary Ann Q. Adajar De La Salle University, Philippines	IEICES 12-315 Load-Adaptive Control with TTC Safety for LiDAR-Based AGV Braking Systems Irin Wanthong, Akkharachai Kosiyanurak, Nattachai Pothei, Natthawut Prasoetkarn, Sorada Khaengkarn and Jiraphon Srisertpol	IEICES 12-171 Competing Optical and Colloidal Effects on Gold Nanoparticle Yield During Pulsed Laser Ablation in Tetrahydrofuran Noor Zirwatul Ahlam Binti Naharuddin , Goh Dick Xuan, Nor Hadzfizah Mohd Radi, Mohd Hisham

		Suranaree University of Technology, Thailand	Mohd Ariff, Amir Murad, Maisarah Mansor Universiti Malaysia Pahang Al-Sultan Abdullah
16:45 16:55	IEICES 12-121 Effect of Varying OCR on the Shear Strength Properties of Cohesive Soils: A Case of Red Clays from Laguna, Philippines Jonyle T. Suriaga , Erica Elice S. Uy, and Jonathan R. Dungca De La Salle University, Philippines	IEICES 12-145 Fuel Consumption Optimization on Varying Terrain Using Genetic Algorithm: A Grid-Based Approach Shaun Patrick B. Calumba National University, Philippines	IEICES 12-292 Molecular Docking Investigation of Piperazine–Indole– Based Amidine Derivatives Targeting PBP2a in MRSA Asmaa’ Zainal Abidin, Jahwarhar Izuan Abdul Rashid, Norli Abdullah, Siti Hasnawati Jamal, Noor Aisyah Ahmad Shah Universiti Pertahanan Nasional Malaysia
16:55 17:05	IEICES 12-229 Multi-label Distress Classification for Asphalt and Concrete Pavement Slabs from UAV Imagery Earl Ryan Aleluya , Francis Jann Alagon, Carl John Salaan, Edward Rowe Aleluya Mindanao State University - Iligan Institute of Technology, Philippines	IEICES 12-212 Region-Specific SARIMA Parameterization for Short-Term Electricity Demand Forecasting in Japan: A Mechanistic Analysis of Structural and Climatic Demand Drivers Dalia Rabie Kyushu University, Japan	IEICES 12-312 Surface Roughness and Corrosion Behavior of Flame-Sprayed HA-ZrO ₂ Coatings on Ti-6Al-4V Biomaterial Khairul Anam , Djibriel Frits Sualang Menalang, Ari Wahjudi, Chin Wei Lai Brawijaya University, Indonesia
17:05 17:15	IEICES 12-178 FPGA-BASED STRUCTURAL HEALTH MONITORING DEVICE WITH INTEGRATED ALARM SYSTEM FOR BRIDGE SAFETY Jhoanna Lyka C. Amor, K S. Dela Rama, Marc Macbeth M. Toledo University of Southern Mindanao, Philippines	IEICES 12-444 Comprehensive Energy Performance Analysis of Selected Audited Buildings in the University of the Philippines Diliman Jansel Neil Navarro , Jhud Mikhail Aberilla, Carl Michael Odulio University of the Philippines Diliman	IEICES 12-599 Hydrogen Bond- Controlled Site-Selective C–H Borylation at the Remote-Position of Naphthalene Derivatives Safaa A. A. Mahmoud , Xu Lu, Genki Yoshino and Yoichiro Kuninobu Interdisciplinary Graduate School of Engineering Sciences, Japan
17:15 17:25	IEICES 12-461 Performance Evaluation of Eco-Material-Based Biopore Technology as a Nature-Based Solution for Sustainable Urban Drainage Ritnawati , Poppy Indrayani, Ibrahim Djamaluddin, Muhammad Isya Arrumi Anshari Universitas Muslim Indonesia	IEICES 12-263 Interaction of Resistive Torque and Aerodynamic Forces During VAWT Start-up Attakarn Jansasithorn , Usa Boonbumrung, Patamaporn Sripadungtham Pilot Plant Development and Training Institute, King Mongkut's University of Technology Thonburi, Thailand	IEICES 12-130 A Scientometric Review of Intelligent Packaging Technologies for Food Applications Marjun C. Alvarado , Mary Amor Figueroa, Mae Ann O. Salem, Renerio I. Duallo Jr, Jan Darvine Ojeda, Carmela Buiquil, Arsenio D. Bulfa Jr., Romy Jun A. Sunico Surigao del Norte State University; Silliman University, Philippines
17:25 17:30	Closing Remarks		

Keynote Session K3 (Chikushi Hall)

Session Chair ITAIWI Alaa

09:30 10:05 Title: Robust Disposable Electrochemical Printed Sensor (DEPSOR) for Water and Environmental Monitoring.

Speaker: Professor Manish Biyani, Kwansei Gakuin University.

10:05 10:40 Title: Optimisation of coated Mg-Zn alloys reinforced Carbon Nanofibers for Biodegradable Orthopaedic Implant Application.

Speaker: Associate Professor Muhammad Hanif Ramlee, Universiti Teknologi Malaysia (UTM).

10:40 11:00

Break

Session 8

Venue	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
Session Chair	Ekrima Astari	Liu Jiaxu	Odai Elfeghih
11:00 11:10	IEICES 12-036 Evaluation of Strength of Clay Stabilized with Philippine Quarry Dust-based Geopolymer Against Wetting and Drying Cycles John Henry Escoto , Erica Elice Uy De La Salle University, Philippines	IEICES 12-265 Microclimate and Spectral Characteristics beneath Blue and Bifacial Photovoltaic Panels: A Case Study in Algae Cultivation Thatree mamee , Usa Boonbumrung, Patamaporn Sripadungtham Pilot Plant Development and Training Institute, King Mongkut's University of Technology Thonburi, Thailand	IEICES 12-560 Comprehensive Review of Conductive Nanocomposites in Inkjet-Printed Flexible Antennas for Wearable and Wireless Applications Amir Farhan bin Asri , Nor Hadzfizah Mohd Radi, Mohd Hisyam Mohd Ariff, Noor Zirwatul Ahlam Naharuddin, Norazian Subari, Muzafar Ismail Universiti Malaysia Pahang Al-Sultan Abdullah
11:10 11:20	IEICES 12-276 Strategic Action Plan for Construction Waste Management: A Study on Practices in the Adaptive Reuse of Residential Buildings in Urbanized Areas Lance Marco M. Bandiling, Joselinda M. Golpeo Polytechnic University of the Philippines - Sta. Mesa, Manila	IEICES 12-331 Design and Development of an AIoT Energy-Saving System with Weather Data Integration for Predictive Demand Response in Off-Grid Photovoltaic Systems Keanu Dominic P. Ortiz , Jemel P. Polangco, Lovely Mae Dagsa, Alfred Dennis B. Balamad, Edgardo Ricardo B. Sajonia Jr. Caraga State University, Philippines	IEICES 12-322 Rheological Behaviour and Preliminary Pullout Strength of Mg-Zn/CNF Composite Screw Produced by Metal Injection Moulding (MIM) for Biomedical Applications Nurin Tihani Nazemi, Siti Adawiyah Zulkefli, Fuziaton Baharudin, Amir Putra Md Saad, Ng Bing Wui, Norzaidahwati Zaidin, Abdul Halim Abdullah, Mohammed Rafiq Abdul Kadir, Muhammad Hanif Ramlee Universiti Teknologi Malaysia (UTM)
11:20 11:30	IEICES 12-128 A Simulation-Based Auditing Framework for Flood Mitigation and CLUP Resilience Assessment Using Cellular Automata and Multiple Flow Direction Algorithm MELBERT R. BONOTAN, NATHAN KIT A. BERRO Caraga State University, Philippines	IEICES 12-174 Simulation and Optimization of a Four-Bed Adsorption Chiller with Heat and Mass Transfer HUIYUAN BAO , SIXU ZHANG, YUETUO LU, SAHA BIDYUT BARAN Kyushu University, Japan	IEICES 12-088 Bioengineering Telomere-Aware Therapies in Cardiometabolic Disease: From Mechanisms to Nanomedicine Yasser H. Habib, Mennatallah A. Ali Egypt-Japan University of Science and Technology
11:30 11:40	IEICES 12-026 Latitudinal Variations in Geomagnetic Responses During the May 2024 Superstorm Roslan Umar , Nur Aisyah Maisarah Al Hisham, Sharifah Nurul Aisyah Syed Zafar, Nor Hazmin Sabri, Zulaikha Mohd Afandi, Akimasa Yoshikawa Universiti Sultan Zainal Abidin (UniSZA), Malaysia	IEICES 12-377 Comparative Carbon Intensity Assessment of Waste-to-Energy Technologies in Cebu Province: A Hybrid Monte Carlo–Entropy–TOPSIS Framework Ray Malonjao , Juvy Malonjao, Jeonel Lumbab, Joecyn Archival, Lorafe Lozano University of San Carlos, Philippines	IEICES 12-169 3D Bioprinting and Artificial Intelligence: A Promising Synergy Asyikin Sasha Mohd Hanif, Aryanny Nasir, Mohamad Ikhwan Kori, Muhammad Faiz Md Shakhiah, Muhammad Hanif Ramlee, Mohamad Ikhwan Jamaludin Universiti Teknologi Malaysia (UTM)
11:40 11:50	IEICES 12-126 Detecting land cover changes in mangrove forests in Prieto Diaz, Philippines using Geographic Information Systems and Google Earth Engine	IEICES 12-373 Technical Feasibility, Cost Analysis, Ergonomics, and Stakeholder Acceptability of a Solar-Powered Tartanilla Lighting System for Sustainable Heritage Mobility in Cebu City	IEICES 12-205 A Systematic Review of Comparison Between 3D Printing and Conventional Method in Fabrication of Passive Transtibial Prosthetic Leg Faiha Nur Qaisara Azman, Maylorna Yusof, Muhammad Hanif Baharuddin, Mohammad Ikhwan Jamaludin,

	<u>Carlo Gabriel Abante</u> , Rosechel Labilles, Jeffrey Bejison, Kenneth Robrigado Central Bicol State University of Agriculture, Philippines	<u>Juvy Malonjao</u> , Ray Malonjao, Naomi Bajao, Mario Rebucas Jr., Jeonel Lumbab, Joecyn Archival, Adrian Ybañez Cebu Technological University, Philippines	Muhammad Faiz Md Shakhih, <u>Mohammad Ikhwan Kori</u> , Muhammad Hanif Ramlee Universiti Teknologi Malaysia (UTM)
11:50 12:00	IEICES 12-309 Evaluation of Sky Brightness Conditions at KUSZA Observatory Based on Hilal and Night-Time using the Sky Quality Meter <u>Muhammad Mustaqim bin Zawawi</u> Universiti Sultan Zainal Abidin, Malaysia	IEICES 12-159 Catalytic Role of Ni–Mn–Co in Modifying Product Yields during Biomass Pyrolysis <u>Widya Wijayanti</u> , Dzulfikar Johan Akbar, Mega Nur Sasongko, Purbo Suwandono Brawijaya University, Indonesia	IEICES 12-466 Point-of-Care Insulin Monitoring in Diabetes Management: Clinical Necessity and Barriers to Translation <u>Muhammad Faiz Md Shakhih</u> , Bhuwaneswaran Vijayam, Mohamad Ikhwan Kori, Mohd Jamil Mohamed Mokhtarudin, Mohamad Ikhwan Jamaludin, Muhammad Hanif Ramlee Universiti Teknologi Malaysia
12:00 13:30	Break		

Session 9

Venue	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
Session Chair	Heba Mohamed	Ahmed Mady Ahmed Ismail	Rizwan Ul Haq Qurashi
13:30 13:40	IEICES 12-332 A Comparative Study of CLAH- Based Two-Stage Enhancement Combinations: Improving New Crescent Moon Image Quality <u>Aisyah Tajuddin</u> , Ahmad Lutfi Afifi Mohd Nasir, Roslan Umar East Coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin, Malaysia	IEICES 12-049 Biomimetic Aerogels Fuel Cells: Advancing Sustainable Energy Materials <u>Norazlianie Sazal</u> , Siti Aida Ibrahim, Nor Mazlana Main, Rosniza Hussin, Noor Azizah Sidek, Azli Nawawi, Oka Shinta Sekar Kirana Faculty of Manufacturing and Mechatronic Engineering Technology, University Malaysia Pahang Al-Sultan	IEICES 12-106 Evaluating Kinematic Performance in Transtibial Prosthetics Leg: 3D-printed versus Conventional Designs Nor Liyana Safura Hashim, <u>Muhammad Hanif Baharuddin</u> , Aizreena Azaman, Syafiq Redzuan Abdullah, Nur Syakirah Abdullah, Maylorna Yusof, Abdul Halim Abdullah, Mohamad Ikhwan Kori, Muhammad Hanif Ramlee Universiti Teknologi Malaysia (UTM)
13:40 13:50	IEICES 12-363 Solar Wind Influence on Magnetospheric Stability: Analysis of Equatorial Geomagnetic Disturbances using MAGDAS Network Observations <u>Nor Hazmin Sabri</u> , Kavinesh Ganesan, Sharifah Nurul Aisyah Syed Zafar, Ahmad Hariz Bely, Akimasa Yoshikawa, Roslan Umar Universiti Malaysia Terengganu	IEICES 12-009 Mobile Robotic Car with Robotic Arm and Vision-Based Sorting Conveyor <u>Amal Nassar</u> , Eman Nassar Mechanical engineering department Higher technological institute 10th of Ramadan city, Egypt	IEICES 12-313 Hemodynamic Evaluation of Iliofemoral Venous Stent Design Enhancements for Post-Treatment Management of Deep Vein Thrombosis Using Computational Fluid Dynamics Kong Yee Ling, Nadia Shaira Shafii, Muhammad Hanif Ramlee, Mohamad Ikhwan Jamaludin, Muhamad Amin Abd Wahab, Muhammad Faiz Md. Shakhih, <u>Mohamad Ikhwan Kori</u> Universiti Teknologi Malaysia
13:50 14:00	IEICES 12-387 Climate–Growth Relationships of Swietenia macrophylla King Revealed Through Tree-Ring Analysis in Mindanao, Philippines Charlemagne A. Dapetilla, Nickee Jean A. Prieto, Jovelyn A. Paler, Cornelio S. Casilac Jr., Wilfredo D. Villacorta, and <u>Roger T. Sarmiento</u> Department of Forestry, College of Forestry and Environmental Science, Caraga State University, Philippines	IEICES 12-100 Development of a 3D-Printed Adaptive Shoulder Support for Hemiplegic Subluxation Rehabilitation Ahmad Faris Mohd Amran, Natiara Mohamad Hashim, Muhammad Hanif Ramlee, Mohammad Azeeb Mazlan, Abdul Manaf Abdullah, <u>Abdul Halim Abdullah</u> Universiti Teknologi MARA, Malaysia	IEICES 12-330 Modeling Land Cover Impacts on Rainfall-Runoff and Sediment Transport Dynamics for Soil and Water Conservation Planning in a Tropical Watershed <u>Glaiza J. Visitacion</u> , Menglu Qin, Dhoz E. Arizobal, Rubenito M. Lampayan, Joan Cecilia C. Casila, Patricia Ann J. Sanchez and Roger A. Luyun, Jr. Central Bicol State University of Agriculture, International Centre for Water Hazard and Risk Management, Visayas State University, University of the Philippines Los Baños
14:00 14:10	IEICES 12-471 The Influence of Weather Factors on New Crescent	IEICES 12-140 Computational Design and Optimization of Anisotropic TPMS	IEICES 12-104 Influence of Processing Conditions on the Techno-functional and Microstructural Properties of

	Moon Visibility at KUSZA Observatory: A Preliminary Study Hilman Shahmeer Mohamed Azmi , Ahmad Lutfi Afifi Mohd Nasir, Ahmad Hariz Bely, Sharifah Nurul Aisyah Syed Zafar, Nor Hazmin Sabri, Amirul Hazim Kamarulzaman, Roslan Umar Universiti Sultan Zainal Abidin, Malaysia	Scaffold for Mandibular Reconstruction Applications Alif Asyraf , Abdul Hakim Yusop, Farrahnoor Ahmad, Ardiyansyah Syahrom, and Fatin Hazwani Universiti Teknologi Malaysia	Cacao Bean Shells (CBS) and Cacao Bean Shells Powder (CBSP): A Comparative Evaluation Philip Donald C. Sanchez , Norhashila Hashim, Mohd Salahuddin Mohd Basri, Nazamid Bin Saari, Dimas Rahadian Aji Muhammad Universiti Putra Malaysia
14:10 14:20	IEICES 12-562 Statistical Properties of High-Frequency Metric Type II Radio Bursts During the Maximum Phase of Solar Cycle 25 Nur Zulaikha Mohd Afandi, Ahmad Hariz Bely , Sharifah Nurul Aishah Syed Zafar, Roslan Umar, Farahana Kamarudin, Christian Monstein East Coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin, Terengganu, Malaysia	IEICES 12-193 Numerical Investigation of Water Mist Suppression Characteristics in Methane Counterflow Diffusion Flames under Various Droplet Diameters Mega Nur Sasongko , Reymon Sahat Pangihutan Manik, Widya Wijayanti Brawijaya University, Indonesia	IEICES 12-271 Tolerance of Bacillus Isolates to Heavy Metal Stress and Their Potential as Stress-Resilient Biofertilizers Yazid Abdur Rahman , Reginawanti Hindersah, Rara Rahmatika Risanti, Mieke Rochimi Setiawati, Betty Natalie Fitriatin, Pujawati Suryatmana Universitas Padjadjaran and Pupuk Indonesia Holding Company
14:20 14:30	IEICES 12-213 Land Use Dynamics, Water Quality Index, and Ecological Health of Riparian zones in Cluster I Sub-Watersheds, Butuan City, Philippines Sherry Mae V. Apatan, John Michael A. Bunga, Marne G. Origenes, Shiella Lynn D. Goyo , Roger T. Sarmiento Caraga State University, Philippines	IEICES 12-215 Development of Mechanical Dryer with Solar Heat Collector for Small-Scale Rice Farming in San Antonio, Zambales Feliciano, John Michael P., Maglaya, Yana R., Caracas, Lloyd D., Ubanos, Julius Christian B., Canlapan, Christian Aldwin D. National University, Philippines	IEICES 12-244 Effect of Additional Light on Growth, Nutrient Uptake, and Yield Response in the Japanese Strawberry Reginawanti Hindersah , Mazakazu Nakayama, Syariful Mubarak, Oviyanti Mulyani, Meira Oktaviani, Febby Fitriyani, Kenji Endo, Yasunaga Iwasaki Universitas Padjadjaran, Indonesia

14:30 15:00

Break

Session 10

Venue	3 rd floor C-cube building
Session Chair	Prof. K V Sambasivarao
15:00 -16:30	Poster session

❖ Notice: The list of posters is included in the final pages of the conference program

Session 11

Venue	C-Cube Chikushi Hall	E-Building, Room 104	G-Building, WEEL Room 310
Session Chair	Mawufemor ZIGAH	Safaa Amer Abbas Mahmoud	Md. Amjad Hossain
16:35 16:45	IEICES 12-383 Evaluating CNN-Based Deep Learning Methods for Building Footprint Extraction From Remotely-Sensed Imagery in the Philippine Context Baby Rucelle B. Cogal, Mariel M. Dueñas, Jojene R. Santillan, Meriam Makinano - Santillan Caraga State University, Philippines	IEICES 12-354 Portable Dual-Hose Oil Skimmer Ginno L. Andres Polytechnic University of the Philippines	IEICES 12-168 Household Raids by Long-Tailed Macaques Macaca fascicularis (Raffles 1821): Patterns, Socioeconomic Impacts and Conflict Mitigation in a Rural Philippine Community Sherryl L. Paz , Maria Theresa F. Paas, Analie G. Benocilla, Krathyl M. Bagaipo, Frinces Mary Gold A. Alegre, Jed Lubang, & Charise Jalique Caraga State University, Philippines
16:45 16:55	IEICES 12-587 Spatially Distributed Land-Use Efficiency Assessment under SDG Indicator 11.3.1: The Case of Greater Manila Area, Philippines Jojene R. Santillan , Meriam Makinano-Santillan Leibniz University Hannover, Germany	IEICES 12-314 Direct Transformation of a Normal Distribution Data to Weibull's Three Parameters Equation Djarot B. Darmadi , Indra Nur Yahya Brawijaya University, Indonesia	IEICES 12-334 Non-Destructive Postharvest Prediction of Estimated Microbial Plate Count in Philippine Red Onion (Allium cepa L. cv. Red Pinoy) Bulbs Using Near Infrared Spectroscopy Roland C. Aquino, Jr. , Ma. Cristine Concepcion D. Ignacio, Floirendo P. Flores, Melissa P. Montecalvo

			University of the Philippines Los Baños
16:55 17:05	IEICES 12-201 Spatiotemporal Analysis of Rainfall Variability in Magat Watershed, Philippines <u>Melanie A. Baguio</u> , Janice D. Aquino, Lanie A. Alejo, Roger A. Luyun, Jr. University of the Philippines Los Baños	IEICES 12-321 Development of a Wearable Sensor System for Real-Time Muscle Activity Monitoring in Children with Motor Skill Disorder Siti Nur Thahirah Fahmi Amir, Nadia Shaira Shafii, Muhammad Faiz Md Shakhii, <u>Mohd Jamil Mohamed Mokhtardin</u> , Nur Azah Hamzaid Universiti Teknologi Malaysia	IEICES 12-420 Evaluation of the Process and Quality Parameters of Kaong (Arenga Pinnata Wumbb Merr.) Sugar Cyrene R. Mojica, Jasmine Claire C. Pelle, <u>Richelle Mae D. Mendoza-Olpot</u> Cavite State University, Philippines
17:05 17:15	IEICES 12-382 Assessing Climate Vulnerability of Residential Energy Demand across Indonesian Provinces Using Present and Future Climate Scenarios <u>Solli Murtyas</u> , Rayhan Rusyd Bandung Institute of Technology, Indonesia	IEICES 12-378 CFD-Assisted Design, Fabrication, and Performance Evaluation of a Cabinet Dryer for Temperature-Sensitive Agricultural Materials Monalyn L. Oloroso, <u>Efren L. Linan</u> , Elman C. Torres, John Bert Mariano, Angeline P. Vista, And Joe Rey M. Frac Capiz State University, Philippines	IEICES 12-233 Design and Numerical Simulation of a Cylindrical Sago (Metroxylon sagu Rottb.) Starch Extractor Machine Chariss Barba, Ramella A. Llamera & <u>Aljon E. Bocobo</u> Caraga State University, Philippines
17:15 17:25	IEICES 12-224 Development of an Air Quality Monitoring System with Integrated Dust Collection <u>Engr. Ronieto N. Mendoza</u> /Bruce L. Villa Caraga State University- main campus, College of Engineering and Geosciences, Philippines	IEICES 12-296 Modal-Based Structural Assessment of the Taguibo Parallel Bridge in Butuan City using Low-Cost MEMS Accelerometers Jilbert B. Lascuña, Isaias V. Saludes Jr., <u>Sicenio D. Abera Jr.</u> , Alfred Dennis B. Balamad Caraga State University, Philippines	
17:25 17:45	Closing Remarks & Best Presentation certificates		

List of posters (Session 2)

Oct.28th (Wednesday, 15:00 -16:30), 3rd floor C-cube building

Poster 1 IEICES 12-032	Material Characterization of Bamboo Leaf Ash from Bambusa Vulgaris Charles Stephen Cai, Francis Lawrence Lim, <u>Gabrielle Keziah Lim</u> , Therese May Quilaneta, Nicanor R. Roxas Jr., Marion Ryan Vicencio, Cheryl Lyne C. Roxas De La Salle University, Philippines
Poster 2 IEICES 12-042	Determination of Critical Span-to-Depth Ratio Governing Buckling Mode Transition in Cold-Formed Steel C-Sections <u>Mary Joanne C. Aniñon</u> , Nurwin Adam G. Muhammad, Bernardo A. Lejano, Lessandro Estelito O. Garciano De La Salle University / Western Mindanao State University, Philippines
Poster 3 IEICES 12-046	Finite Element Analysis of Waste Glass Powder Concrete for Slab Track Systems Using Abaqus LE: A Serviceability Evaluation <u>Kevin Chua</u> , Joenel Galupino, Gabriel Baluyot, Kyle Lam, Jessen Ong, Cielo Frianeza, Irene Ubay-Anongphouth, Daniel Valerio, Maria Sevilla, Miller Cutora, Rainier Valdez De La Salle University - Integrated School, Philippines
Poster 4 IEICES 12-047	A Bibliometric Analysis of Algae-Based Soil Stabilization <u>Julian Andrei A. Gaffud</u> , Lourd Alexander P. Baysa, Mary Antoinette Rein S. Mendoza, Mary Ann Q. Adajar, and Joenel G. Galupino De La Salle University - Manila, Philippines
Poster 5 IEICES 12-050	Evaluating Machine Learning Models for Groundwater Depth Estimation under Right-Censored Borehole Conditions: A Case of Benguet, Philippines <u>Francine Mae Reyes</u> , Joenel Galupino, Miller Cutora De La Salle University Manila, Philippines
Poster 6 IEICES 12-051	Permeability Characteristics of Poorly Graded Sand from a Quarry <u>Mary Antoinette Rein S. Mendoza</u> , Julian Andrei A. Gaffud, Lourd Alexander P. Baysa, Mary Ann Q. Adajar, Joenel G. Galupino De La Salle University - Manila, Philippines
Poster 7 IEICES 12-052	A Methodological Evaluation of a Neuro-Fuzzy-based Cohesion Prediction Model <u>Fred Gabriel M. Bracamonte</u> , Joenel G. Galupino, Jonathan R. Dungca, Miller D. Cutora, Cielo D. Frianeza, and Irene Olivia M. Ubay-Anongphouth De La Salle University - Manila, Philippines
Poster 8 IEICES 12-063	Sustainable Railway Infrastructure: A Bibliometric Analysis of Industrial and Bio-Based Concrete Materials for Philippine Slab Tracks <u>Kyle Lam</u> , Joenel Galupino, Gabriel Baluyot, Kevin Chua, Jessen Ong, Cielo Frianeza, Irene Ubay-Anongphouth, Daniel Valerio, Maria Sevilla, Miller Cutora, Rainier Valdez De La Salle University, Philippines
Poster 9 IEICES 12-115	Seismic Performance Assessment of a One-Storey Reinforced Concrete Building Using Incremental Dynamic Analysis <u>Donna Ville L. Gante</u> , Lessandro Estelito O. Garciano De La Salle University, Philippines
Poster 10 IEICES 12-118	Evaluating Vetiver Grass as a Nature-Based Solution for Soil Stabilization: A Comprehensive Bibliometric Analysis <u>Marcus Tyrojne Ongjuco</u> , Abriel Jean Beriña, Joshua Emmanuel Chua, Joshua Miguel Entice, Joenel Galupino, Erica Elice Uy De La Salle University, Philippines
Poster 11 IEICES 12-132	PSHA-Based Fragility Assessment of Historical and Modern University Infrastructures in the National Capital Region. Reyes, <u>Luis V. B. M.</u> , Salamera Joaquin Sebastian , Co, Kyzer Cedrick A., Fortuno, John Faramir R., Joenel Galupino, Erica Elice Uy, Raymond Albert Ng, Miller Cutora, Lawrence Valdez, Daniel Valerio, Samantha Jarde, Lessandro Garciano De La Salle University Manila, Philippines
Poster 12 IEICES 12-133	Assessing the Seismic Vulnerability of Churches in Bicol: A Site-Specific PSHA. Salamera, <u>Joaquin Sebastian</u> , Reyes, Luis Vicente Baltazar M., Co, Kyzer Cedrick A., Fortuno, John Faramir R. De La Salle University, Philippines

Poster 13 IEICES 12-286	Seismic Vulnerability Assessment of Hinang Hall in Caraga State University - Main Campus Using Fragility Curves Rogelim I. Gallo Jr., Kenneth Rei C. Montilla, Erwin D. Mendoza, Sicenio D. Abera Jr., Michael B. Baylon, <u>Mary Hazel B. Abera</u> Caraga State University, Philippines
Poster 14 IEICES 12-298	Seismic Response Analysis of Multi-Storey Building with Different Base Isolation Techniques using ETABS Jason Calledo, Kenneth Bryan A. Formilles, <u>Erwin D. Mendoza</u> , Sicenio D. Abera Jr. Caraga State University, Philippines
Poster 15 IEICES 12-342	Dynamic Seismic Evaluation of the Commission on Higher Education Regional Office XIII using Response Spectrum Analysis in ETABS <u>Sherwin B. Padogdog</u> , Yhanna Channelle A. Padua, Sicenio D. Abera Jr. Caraga State University, Philippines
Poster 16 IEICES 12-365	Evaluation of Alkali-Treated Coconut Husk Fibers on the Durability of Compressed Earth Blocks <u>Marc Angelo Del Fonso</u> , John Allen Villanueva, Irene Olivia Ubay-Anongphouth, Joenel Galupino De La Salle University, Philippines
Poster 17 IEICES 12-389	Synergistic Utilization of Post-Consumer Glass Waste in Lightweight Geopolymer Concrete <u>Jemaimah Panggoy</u> , Glen Lorenzo, Maria Sheila Ramos, Brian Christian Magalong, Kristine Sanchez-Companion Mindanao State University - Iligan Institute of Technology, Philippines
Poster 18 IEICES 12-417	Detection of Localized Ground Deformation in Cagayan de Oro City and Opol, Philippines Using Sentinel-1 InSAR Time-Series Analysis <u>Neil Marvin L. Barbon</u> , Joel G. Opon, Elizabeth Edan M. Albiento MSU - Iligan Institute of Technology, 9200 Iligan City, Philippines
Poster 19 IEICES 12-432	Assessing the Suitability of Selected National Roads in Butuan City Cher Nathalee L. Gaylawan, <u>Jobilene Ten Turaja</u> , Shelah Grace C. Hebra Caraga State University, Philippines
Poster 20 IEICES 12-435	Assessment of Microbiologically Induced Concrete Corrosion (MICC) of Concrete Water Tanks in Malinan, Kidapawan City <u>Jomar Clarence C. Cambal</u> , Jay M. Navaluna, Maria Elena N. Tanabe University of Southern Mindanao, Philippines
Poster 21 IEICES 12-449	Effectiveness of Alkali-Treated Coconut Husk Fibers on the Compressive Strength of Compressed Lateritic Soil Blocks John Allen Villanueva, <u>Marc Angelo Del Fonso</u> , Irene Olivia Ubay-Anongphouth, Joenel Galupino De La Salle University, Philippines
Poster 22 IEICES 12-479	A Comparative Analysis, Ramifications, and Recommended Policies for Construction Material Price Volatility in the Philippines Amidst the Current Geopolitical Crisis in the Middle East Joseph Raniel A. Bianes, <u>Armando N. Victoria Jr.</u> , Christoper F. Sasot, Ginno L. Andres, Manuel M. Muhi Polytechnic University of the Philippines
Poster 23 IEICES 12-486	Traffic Mitigation Measures at the Butuan City-Malaybalay Road and Mayor Democrito D. Plaza II Avenue Intersection Jaceel Diane C. Burnea, <u>Jessa Ruth A. Claro</u> , Shelah Grace C. Hebra Caraga State University - Main Campus, Philippines
Poster 24 IEICES 12-498	Modeling the Impact of Construction Material Price Escalation on Labor Productivity: Evidence from Contractors in Ilocos Norte, Philippines <u>Jhames Rohan T. Palafox</u> , Mireya Gean T. Salacup, Regina Gwyneth R. Laureta, John Angelo M. Pagdilao, Karen Joyce B. Santiago Mariano Marcos State University, Philippines
Poster 25 IEICES 12-499	Info-gap Uncertainty-Aware Stability Analysis of Cantilever Retaining Walls <u>Christian Cahig</u> , Joel G. Opon Mindanao State University - Iligan Institute of Technology, Philippines
Poster 26 IEICES 12-524	Design and Structural Analysis of Stilt and Amphibious Housing Systems for Flood-Prone Areas in Butuan City Dianne R. Sabio, Mikylla G. Sison, <u>Erwin D. Mendoza</u> Caraga State University, Philippines
Poster 27 IEICES 12-538	Empirical Estimation of Atterberg Limits Using Readily Available Soil Properties in Landslide-Prone Areas of Makilala, Cotabato Jefferson A. Montil, Hurethane E. Pahayahay, Marc Lin F. Abonales, <u>Genevieve E. Quisto</u> , Jayrold P. Arcede

	Caraga State University, Philippines
Poster 28 IEICES 12-539	Examining the Effects of Rationalizing Public Utility Jeepney (PUJ) Routes on Traffic and Commuter Accessibility in Butuan City Hessien Karl M. Agustin, <u>Ailmaejoy D. Osinaga</u> , Shelah Grace C. Hebra Caraga State University-Main, Philippines
Poster 29 IEICES 12-572	Influence of Structural Parameter on the Seismic Vulnerability of a Low-Rise RC Public School Building under Pre-NSCP 2015 using Fragility Curves Princess Shane Mae Jamero, <u>Jovan Reigh M. Sabandal</u> , Sicenio D. Abera Jr., Erwin D. Mendoza, Michael B. Baylon Caraga State University, Philippines
Poster 30 IEICES 12-544	Strength Analysis of Sandy Loam Reinforced with Polyvinyl Alcohol (PVA) Mary Ann Adajar, Nicolo Aves, Allison Rose Jacob, Katherine Faith Rivera, <u>Ryan Joseph Santos</u> , Irene Olivia Ubay-Anongphouth De La Salle University - Manila, Philippines
Poster 31 IEICES 12-549	Q-System Based Cave Stability Assessment in Selected Caves in Surigao City and Dinagat Island, Philippines for Geotourism Development Glenn Lloyd M. Silao, Rogelio C. Flor Jr., Yvonne T. Olayvar, <u>Nichole Anthony D. Pacle</u> Caraga State University, Philippines
Poster 32 IEICES 12-602	Critical Mineral Depletion, Clean Energy Transition, and Respiratory Health: Evidence from 28 Mineral-Rich Countries <u>Farhana Nur Rahman</u> , Bidyut Baran Saha Kyushu University, Japan
Poster 33 IEICES 12-536	Development of a Low-Cost Structural Health Monitoring System Using MEMS Accelerometers for Hinang Hall at CSU - Main Campus <u>Carl Anthony M. Dimaano</u> , Aiza Mae T. Lula, Sicenio D. Abera Jr., Alfred Dennis B. Balamad Caraga State University, Philippines
Poster 34 IEICES 12-095	Soil Index Properties and Classification of Selected Soils in Gumaca, Quezon <u>Tristan Benedict T. Caparros</u> , Angelo Miguel S. Agustines, Fernando Jafeth Perez Hidalgo, Janford L. Priete, Joenel G. Galupino, Erica Elice Uy, Mary Ann Q. Adajar De La Salle University Manila, Philippines
Poster 35 IEICES 12-488	Water Footprint-Informed Nature-Based Solutions for Urban Water Management in Tropical Cities: A Case Study of Balanga City, Philippines <u>John Lloyd Villadoz</u> , Chiny Vispo, Maan Josue, Czarina Maranan, Gil Cruz University of the Philippines Diliman - Institute of Civil Engineering
Poster 36 IEICES 12-504	2D Depth-Averaged Mathematical Model for Debris Flow Incorporating Voellmy Rheology, Earth Pressure Coefficient and Coriolis Effect <u>Fatanah Hamzah</u> , Zuhaila Ismail, Muhamad Najib Zakaria, Rini Asnida Abdullah Universiti Teknologi Malaysia
Poster 37 IEICES 12-200	A Sub-Thematic Review of Passive Design and Energy Conservation in CFD-Based Natural Ventilation Research for Warm-Climate Buildings (2021–2026) <u>Zarinah Esa</u> , Ahmad Faiz Mohammad, Nurul Huda Ahmad, Rohayah Che Amat, Nurizzatul Atikha Rahmat Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Jalan Sultan Yahya Petra, Kuala Lumpur, Malaysia. Faculty of Automotive Engineering Technology, Universiti Malaysia Pahang Al-Sultan Abdullah, Pekan, Pahang, Malaysia.
Poster 38 IEICES 12-347	Integrated GIS-Based Suitability Modeling and Climate Change Assessment for Abaca (<i>Musa textilis</i> Nee) Production in the Caraga Region, Philippines Elizabeth P. Parac, Mark Paul Selda Rivarez, Arnaldo C. Gagula, Joanne A. Langres, Cristal Mae Magadan and <u>Jezmeir Rey Porras</u> Caraga State University, Philippines
Poster 39 IEICES 12-522	EFFECT OF URBAN AND RURAL GRADIENTS ON LEAF FUNCTIONAL TRAITS OF MOLAVE (<i>Vitex parviflora</i> Juss.) IN SELECTED AREAS OF AGUSAN PROVINCES, Philippines <u>Catherine Mhae B. Jandug</u> , Jomar T. Banayawon, Johncar Mangingit, Brend Ruel C. Napalan, Victor L. Corbita, Sheilla Lynn D. Goyo, Chengyang Xu Caraga State University, Ampayon, Butuan City, Philippines
Poster 40 IEICES 12-537	Characterization of Earthquake-Induced Landslides Using Logistic Regression in Makilala and Kidapawan, North Cotabato, Philippines

	Renz Kian A. Caballero, Jhon Rey A. Dela Cruz, Nichole Anthony D. Pacle, <u>Loyd John M. Gonzales</u> , Genevieve E. Quisto, Irene Grace T. Tingcoy, Marc Lin F. Abonales, Arnaldo C. Gagula, Arturo S. Daag, Margarita P. Dizon, Lolly Jade T. Rosil, Jay Melvin B. Segales, Jayrold P. Arcede Caraga State University - Main Campus, Philippines
Poster 41 IEICES 12-596	Self-Calibrated Sub-Pixel Width Measurement of the New Crescent Moon via Taubin Limb Fitting and Topocentric Ephemeris Coupling Ahmad Lutfi Afifi Mohd Nasir, <u>Ahmad Najmuddin Zulkeflee</u> , Roslan Umar, Wan Nural Jawahir Wan Yussof, Mohammad Shawkat Odeh, Nor Hazmin Sabri Department of Islamic Development Malaysia
Poster 42 IEICES 12-429	Comparative Analysis of Seagrass Mapping in Siargao Islands Protected Landscapes and Seascapes (SIPLAS) Using PlanetScope: Evaluating Temporal Variations Pre and Post-Disaster Ed Lean O. Buslatan, Norman JR T. Gopico, <u>John Rudmark L. Ebol</u> Caraga State University, Philippines
Poster 43 IEICES 12-503	Erosion-Deposition Dynamics and Riverbank Migration in the Taguibo and Kolambugan Watersheds, Caraga Region, Philippines: An Assessment of Sediment Transport and Fluvial Geomorphology Federico D. Cavañero, John Roger P. Balagbis, <u>Yvonne T. Olayvar</u> , Nichole Anthony D. Pacle Department of Geology, Caraga State University, Philippines
Poster 44 IEICES 12-400	Performance Assessment of CHIRPS and GSMaP Rainfall Datasets over the Magat Watershed, Philippines <u>Janice D. Aquino</u> , Ryan C. Ancheta, Rafael J. Padre, Melanie A. Baguio, Lanie A. Alejo ISABELA STATE UNIVERSITY, Philippines
Poster 45 IEICES 12-515	Perceptions and Experiences of Households on Streambank Erosion and Sedimentation along Aklan River: Basis for Flood Risk Management <u>Fervin D. Samortin</u> , Melba L. Raga-as, Jyanee Loi D. Yecla, Ronelo S. Salaver, Ma. Rosary T. Tesorero, Mayflor M. Mansayon, Carmenchita M. Tumaca, Nenia N. Bohulano, Raffy L. Tano, Levi C. Tambong Aklan State University, Philippines

List of posters (Session 5)

Oct.29th (Thursday, 13:00 -14:30), 3rd floor C-cube building

Poster 46 IEICES 12-074	BIODEGRADATION OF DISTILLATE-DERIVED STRONG ALKALINE WASTEWATER FROM PGME PROCESSES USING A NOVEL ALKALIPHILIC BACTERIAL ISOLATE Rosil, <u>Shaina Mae</u> , Ballesteros, Florencio, Wu, Siang Chen, Chen, Chien-Cheng Caraga State University, Philippines
Poster 47 IEICES 12-111	LIGTAS: Localized Interlock for Gas and Thermal Anomaly Safety <u>Miles Ian T. Daligdig</u> , Joesie John G. Ecat, and Ervine E. Lanquino Caraga State University, Philippines
Poster 48 IEICES 12-135	Community-Based Implementation of a Downsized Sustainable Conventional Water Treatment System in West Semplak Village, Bogor Regency <u>Ekrima Astari</u> , Sri Handayani, Martin Jhodi Rualda, Rhaflly Hernanda, Sri Hardianti, Dwi Hijratul Aprilia, Sherlyana Tri Oktaviani, Fitria Ramadhani, Ratna Sari Hasibuan Universitas Nusa Bangsa, Indonesia
Poster 49 IEICES 12-142	Interpretable Machine Learning Prediction of CO2 Adsorption Isotherms for KOH-Activated Carbon with Grouped Cross-Validation and Automated Hyperparameter Optimization <u>WANG WEN</u> , YE LEI, Rabbani Muntezar, Md. Amirul Islam, Bidyut Baran Saha Kyushu University, Japan
Poster 50 IEICES 12-252	Analytical Methods for Tritium Quantification in Plants: A Mini-Review. <u>Zigah Mawufemor</u> , Saiki Shogo, Katayama Kazunari Kyushu University, Japan
Poster 51 IEICES 12-256	Estimating Soil Organic Carbon from Sentinel-2 Imagery: A Comparison Between Traditional Regression and Random Forest in the Rice Fields of Barangay Siana, Mainit, Surigao del Norte Shrine P. Balbutin, Shien L. Busano, <u>Maria Belinda D. Campana</u> , Arnaldo C. Gagula Caraga State University, Philippines
Poster 52 IEICES 12-279	Evaluation of Bioplastics Degradation by Microbes <u>Anthony Nyangson Steven</u> , Nur Izzati Mohd Noh, Nurul Hadirah Eshak, Nadira Maisara Rozi, Shamila Azman Universiti Teknologi Malaysia
Poster 53 IEICES 12-311	Dual-Polarimetric C-Band SAR Data for Rice Crop Phenology Monitoring in Remedios T. Romualdez (RTR), Agusan Del Norte, Philippines Queennie Rose T. Balaba, Lorie Cris S. Asube, <u>Michelle V. Japitana</u> , Iris Trixie C. Bagona, Kendel P. Bolanio Caraga State University, Philippines
Poster 54 IEICES 12-426	Forecasting River Water Flow in Sungai Teratai, Johor with Long Short-Term Memory (LSTM) <u>Fatin Farhanah binti Abd Rahim</u> , Mohd Khairul Bazli bin Mohd Aziz, Ng Jie Hao, Mohd Radhie bin Mohd Salleh, Nur Ainaa Najihah binti Abdil Shakri Universiti Malaysia Pahang Al-Sultan Abdullah
Poster 55 IEICES 12-442	Innovative Clay Composite as Sustainable Sanitary Landfill Liner: Influence of Ca/Si Molar Ratio and Compaction Moisture Condition on Strength and Microstructure <u>Genevieve A. Gabule</u> , Joel G. Opon, Maria Sheila K. Ramos, Glen A. Lorenzo University of Science and Technology of Southern Philippines Main Campus
Poster 56 IEICES 12-443	DEVELOPMENT AND EVALUATION OF AN INTEGRATED WEB AND MOBILE WATER BILLING AND COLLECTION INFORMATION SYSTEM FOR THE CHARITO MAHAYAG FARMERS ASSOCIATION <u>Dexter A. Romaguera</u> , Jeseca A. Ruelan, Arian Jay E. Prisco Caraga State University, Philippines
Poster 57 IEICES 12-478	Effect of Starch-Chitosan Hydrogel Derived from Potato (<i>Solanum tuberosum</i>) Peel and Golden Apple Snail (<i>Pomacea canaliculata</i>) Shells on Soil Water Holding Capacity Ma. Froiline Shane Angela S. Salomon, Cedric Martinez, May Rose B. Osoteo, Neil Caesar M. Tado, <u>Ephraim Joy B. Beltran</u> Caraga State University, Philippines
Poster 58 IEICES 12-485	Influence of Caulerpa-Based Biofertilizer on the Growth, Yield, and Physiological Response of Tomato (<i>Lycopersicon esculentum</i> L.) under Drought Stress Condition <u>Lourene Mae R. Davirao</u> , Crishelo M. Cabillo, Elizabeth P. Parac, Reuben James C. Rollon Caraga State University-Main Campus, Philippines

Poster 59 IEICES 12-534	Data-Driven Urban Management and Development through LSTM-based PM2.5 Prediction in Baguio City, Philippines <u>Irene Danica B. Torcuato</u> , Engr. Melissa May M. Boado Saint Louis University, Philippines
Poster 60 IEICES 12-571	Analytical Hierarchical Process (AHP) and Geographical Information System (GIS) to Determine the Potential Landfill Sites in Pahang <u>Nur Ainaa Najihah Binti Abdil Shakri</u> , Mohd Khairul Bazli Bin Mohd Aziz, Fatin Farhanah Binti Abd Rahim Universiti Malaysia Pahang Al-Sultan Abdullah
Poster 61 IEICES 12-585	Particulate Matter Transport Modeling Framework for Roadside-to-Agricultural Suspended Atmospheric Microplastic Pathways <u>Joshua Shem Barachina</u> , Marielet Guillermo College of Engineering, National University, Philippines
Poster 62 IEICES 12-597	Thermal Attenuation and Passive Cooling Mechanisms in a Traditional Courtyard House of the Medina of Tunis <u>Amira El Kchaou</u> , Rami Derbel, Faten Hussein, Hirokazu Suemitsu, Kaoru Suehiro Kyushu University, Graduate School of Human-Environment Studies, Japan
Poster 63 IEICES 12-464	Enhancing Bell Pepper (<i>Capsicum annuum</i> L.) Tolerance Under Saline Soil Applied with <i>Arthrospira platensis</i> Extract: Growth Yield, and Physiological Assessment <u>Reynalene S. Numeron</u> , Crishelo M. Cabillo, Elizabeth P. Parac, Lufer Grace N. Algo, Charry Mae S. Numeron Caraga State University , Philippines
Poster 64 IEICES 12-519	Improving Cloud Masking for Satellite Imagery: A Comparative Model of Static Baseline, Static + DQN and Static + PPO Joshua Philip E. Oropa, Junjorel A. Nocalan, <u>John Mark B. Correa</u> , MSc College of Computing and Information Sciences, Caraga State University, Philippines
Poster 65 IEICES 12-339	APPLICATION OF SILVER NANOPARTICLES AS ANTIMICROBIAL AGENTS IN ACTIVE FOOD PACKAGING Aidaikan Kasymakunova, Emil Omurzak , Ruslan Adil Akai Tegin, <u>Altynai Abdurashit kyzy</u> Kyrgyz Turkish Manas University, Kyrgyzstan
Poster 66 IEICES 12-552	Mixed Convection and Hemodynamics of Ag-Au Hybrid Nanofluid in a Patient-Specific Bifurcated Stenotic Artery <u>Aisyah Sumayyah Mohd Khalid</u> , Zuhaila Ismail, Dzuliana Fatin Jamil, Fuaada Mohd Siam Universiti Teknologi Malaysia (UTM)
Poster 67 IEICES 12-361	Analyzing Robustness and Sensitivity of Three-Terms Conjugate Gradient Method to Solve Unconstrained Optimization Problems <u>Wong Shin Yi</u> , Nur Syarafina binti Mohamed Universiti Teknologi Malaysia
Poster 68 IEICES 12-031	From Physical Stimulus to Biological Response: Advances and Development Trends in Ultrasound-Assisted Seed Treatment Marjun C. Alvarado, <u>Jan Darvine Ojeda</u> , Carmela Buiquil, Arsenio D. Bulfa Jr., Romy Jun A. Sunico Surigao del Norte State University, Philippines
Poster 69 IEICES 12-297	Effects of Moisture Content and Maturity Index on the Engineering Properties of Gulian Adlai (<i>Coix Lacryma-jobi. L.</i>) Grains <u>Rossen Lloyd A. Bugna</u> , Bernadette B. Gantalao, Maria Charina L. Taghap Caraga State University - Main Campus, Philippines
Poster 70 IEICES 12-455	Ultrasound-Assisted Seed Priming to Improve Germination and Early Growth of Bitter Gourd (<i>Momordica charantia</i> L.) Seeds <u>Jay Mart G. Perez</u> , Jibb Micob T. Jabinal, Anamarie P. Sajonia, Edgardo Ricardo B. Sajonia Jr. Caraga State University, Philippines
Poster 71 IEICES 12-492	Optimization of Molasses-Based Medium for Enhancing <i>Bacillus</i> Population and Shelf Stability of Liquid Biofertilizer <u>Gita Bina Nugraha</u> , Reginawanti Hindersah, Yeni Wispa Dewi, Rara Rahmatika Risanti, Betty Natalie Fitriatin, Mieke Rochimi Setiawati, Pujawati Suryatmana Faculty of Agriculture Universitas Padjadjaran and Indonesia Agrichemical Research Institute (IARI), Pupuk Indonesia Holding Company

Poster 72 IEICES 12-535	Root Morphological Profiling and Quality Characterization of Cassava (<i>Manihot esculenta</i> Crantz) Germplasm for Food and Industrial Applications <u>Naomi Grace M. Lancita</u> , Jovehnel Veloso, Mary Jephunneh Torga, Siugilyn Rapana, Nico Cabanig, Jayshree Kenneth Tagalog, Roy Lemosnero ¹ , Crishelo M. Cabillo Department of Plant and Soil Sciences, Caraga State University, Ampayon, Butuan City, Agusan del Norte, Philippines
Poster 73 IEICES 12-143	Development of a coconut coir-based ripening chamber for postharvest management of mangoes (<i>Mangifera indica</i>) Kenneth B. Trio, Jeanne A. Largo, <u>Neil Caesar M. Tado</u> , Febie T. Paglinawan, May Rose B. Osoteo, Eldie R. Labisto Caraga State University, Philippines
Poster 74 IEICES 12-418	Transmission Efficiency of Banana Aphids (<i>Pentalonia nigronervosa</i> Coquerel) and Susceptibility of Selected Abaca and Banana Bunchy Top Virus <u>Jane Chinee G. Cagnan</u> , Katleya Kyla R. Layao, Rena L. Pirigrino, and Elizabeth P. Parac Department of Plant and Soil Sciences, College of Agriculture and Agri-Industries, Caraga State University-Main Campus, Philippines
Poster 75 IEICES 12-456	Utilizing the Combined Application of Unmanned Aerial Systems (UAS), Remote Sensing, and Geographic Information Systems for the Estimation of Above-ground Biomass of Sago (<i>Metroxylon sagu</i> Rottb.) Bianca A. Erigan, John Carl L. Engcoy, <u>Arnaldo C. Gagula</u> Caraga State University, Philippines
Poster 76 IEICES 12-425	Reducing GHG Emissions by Enhancing Soil Inorganic Carbon in Philippine Lowland Rice System Using Silicate Rock Powder <u>Sherwin P. De Jesus</u> , Rubenito M. Lampayan, Ando Mariot Radanielson, Rosa B. De Los Reyes, Ronaldo B. Saludes, Eljezwyne Clomer G. Barcellano, Maria Arlene Adviento-Borbe University of the Philippines Los Baños
Poster 77 IEICES 12-393	GIS-Based Spatial Analysis for Mapping Optimal Mangrove Rehabilitation Sites in Gigaquit, Surigao del Norte Kristine Angel B. Nopal, Kim Cylern G. Bajan, Clyde Via D. Balane, Maria Theresa F. Paas, Romell A. Seronay, Mark Angelo P. Perodes, <u>Jessa Marie B. Sabado</u> CARAGA STATE UNIVERSITY, Philippines
Poster 78 IEICES 12-445	Determinants of Spatial Accessibility to Urban Green Public Spaces: Evidence from Cagayan de Oro City, the Philippines <u>Vida Fe K. Lagumbay</u> , Vilas Nitivattananon, Harshit Sosan Lakra University of Science and Technology of Southern Philippines
Poster 79 IEICES 12-310	A Review of the Battery Disposal Outlook in the Philippines: Navigating the End-of-Life Management of Lead-Acid and Lithium-Ion Technologies Lovely Mae Dagsa, <u>Alfred Dennis B. Balamad</u> Caraga State University, Philippines
Poster 80 IEICES 12-430	Design and Development of a 3.7V Active Hybrid Energy Storage System (Li-ion + Supercapacitor) Eric Jhon A. Cañete, <u>Lovely Mae Dagsa</u> , Alfred Dennis B. Balamad Caraga State University, Philippines
Poster 81 IEICES 12-489	Comparative Analysis of Air-Conditioning and Natural Ventilation Modes Based on Parametric Simulation in Hospitals within Tropical Monsoon Climates <u>Leandro S. Triantoro</u> , Solli Murtyas, Rahmat Romadhon Institute Technology of Bandung, Indonesia
Poster 82 IEICES 12-025	A mini Review in Waste-to-Energy: Challenge, Opportunities and Future Trends <u>Meita Rumbayan</u> , Jefrey Kindangen, Andante Hadi Pandyaswargo, Hiroshi Onoda Sam Ratulangi University, Indonesia
Poster 83 IEICES 12-041	Towards a Net-zero Future: Issues and Challenges in South Korea's Energy Transition Policies <u>MyungHee Kim</u> Sahmyook University, Korea
Poster 84 IEICES 12-473	GIS-Based Hydropower Screening and Hydrokinetic Simulation of a Four-Bladed Gorlov Helical Turbine for Low-Head River Energy Assessment in Lanao del Sur, Philippines <u>Abdul Hakim P. Dimaronsing</u> , Moheddin U. Sumagayan, Rohanni B. Mangorsi

	Mindanao State University - Iligan Institute Of Technology, Philippines
Poster 85 IEICES 12-518	Data-Driven Approaches for Day-Ahead Hourly Solar Power Forecasting in IoT-Integrated Photovoltaic (PV) Systems <u>Edwin C. Cuizon, Jr.</u> University of Science and Technology of Southern Philippines
Poster 86 IEICES 12-574	Development of an Intelligent Portable Battery System with DC Level-Based Charging and Microgrid Battery Health Monitoring <u>Alexander T. Demetillo, Loyd E. Pomoy, Ronieto N. Mendoza</u> Caraga State University, Philippines
Poster 87 IEICES 12-317	An Optimization-Based Decision Framework for Malaysian Road Users: Evaluating EV Adoption Using Tiki-Taka Algorithm Hadi Abdul Salaam, Mohd Fadzil Faisae Ab. Rashid, <u>Muhammad Ammar Nik Mutasim</u> , Mohd Fadzil Ali Ahmad, Mohd Aizudin Abd Aziz Faculty of Mechanical and Automotive Engineering Technology/Universiti Malaysia Pahang Al-Sultan Abdullah (UMPASA)
Poster 88 IEICES 12-395	Reliability-Oriented Machine Learning Classification of Wastewater Pollution Risk Using Rule-Based Target Construction from Composite Pollution Index and pH Criteria <u>John Darren E. Casidlac</u> National University, Philippines
Poster 89 IEICES 12-160	Influence of Roof Insulation Performance on Indoor Thermal Comfort in Tropical School Classrooms <u>Farah Ain Binti Johar</u> , Sheikh Ahmad Zaki, Naja Aqilah, Yasir Arafat, Hom Bahadur Rijal, Manoj Kumar Singh, Teh Khar San Universiti Teknologi Malaysia (UTM)
Poster 90 IEICES 12-440	Design and Evaluation of a Small-Scale Interchangeable-Cylinder Thresher for Adlai (Coix lacryma-jobi L.): Optimizing Threshing Efficiency and Grain Quality Through Physical Characterization and Rotational Speed Adjustment <u>Aya Zheena T. Loayon</u> , Elyzza Jean T. Carbon, Cindy May C. Belivestre Caraga State University, Philippines

List of posters (Session 10)

Oct.30th (Friday, 15:00 -16:30), 3rd floor C-cube building

Poster 91 IEICES 12-247	Route-Based Energy Performance Assessment of Electric Tricycles Under Mixed-Terrain Urban Conditions John Lloyd V. Cosicol, Diodel Enrico Ybasco, <u>Melgie Rose C. Acero</u> , Erickson A. Tacda Caraga State University, Philippines
Poster 92 IEICES 12-340	Design and Development of a Prototype Edge AI-Based Fault Detection System for Vibrating Devices Using Multimodal Sensing with Hybrid Energy Harvesting Elejune Ace B. Epanes, Lovely Mae Dagsa, <u>Alfred Dennis B. Balamad</u> Caraga State University, Philippines
Poster 93 IEICES 12-357	IOT-Based Monitoring and Machine Learning Prediction for Paddy Rice Sun Drying Jennifer J. Tongco, Claire Justine Pugio, John Jabez S. Visarra, John Kylo A. Cubelo, <u>Jeralyn G. Alagon</u> Bohol Island State University, Philippines
Poster 94 IEICES 12-386	Blockchain-Integrated QR Authentication Framework with Post-Quantum Security Concepts for Pharmaceutical Anti-Counterfeiting <u>Koneru Sudhir</u> , Dr. K. V. Sambasiva Rao Jawaharlal Nehru Technological University Kakinada, India
Poster 95 IEICES 12-404	A Load Disaggregation and Forecasting Framework for Air-Conditioning Energy Demand Estimation in Tropical School Buildings <u>Erra Elvyna Langeh Randin</u> , Siti Maherah Hussin, Wan Noor Hamiza Wan Ali, Mohd Nabil Muhtazaruddin, Mohd Fitri Mohd Yakub, Azizul Azizan, Rozana Zakaria Universiti Teknologi Malaysia
Poster 96 IEICES 12-437	Data-Driven Respiratory Motion Signal Extraction Algorithm Development From 3D Cone-Beam CT Projections Using Semi-Supervised U-Net <u>Nasuha Ezzayani Elias</u> , Adam Tan Mohd Amin Universiti Putra Malaysia
Poster 97 IEICES 12-453	A Simulation Study of Peak Shaving Using Battery Energy Storage System for a University Campus in Malaysia under General and Time-of-Use Tariff Robbe Wilfried M. Ryckeboer, <u>Mohd Fairouz Mohd Yousof</u> , Miow Xie Cherng, Lim Khim Yan, Looe Hui Mun Universiti Tun Hussein Onn Malaysia`
Poster 98 IEICES 12-521	ATHENA: An Image Captioning Pipeline for Constrained Underwater Environments <u>Rodrigo Emmanuel Roy</u> , <u>Krishna Anne Chan</u> , Carlo Raquel, Prospero Naval University of the Philippines Diliman
Poster 99 IEICES 12-541	Decomposition-Based Forecasting of Double Seasonal Electricity Demand: An MSTL-SARIMA Approach <u>Puteri Aiman Syahirah Rosman</u> , Nur Haizum Abd Rahman Centre for Mathematical Sciences, Universiti Malaysia Pahang Al-Sultan Abdullah
Poster 100 IEICES 12-582	A Computer Vision-Based Approach to Vehicle Detection and Classification for CO₂ Emission Estimation Mayan Denise F. Hilario, Kiersten S. Jimenez, <u>Andariel Rashamon Rayne C. Lim</u> , Gabrielle S. Santos De La Salle University, Philippines
Poster 101 IEICES 12-593	Development of a Portable Class-D Ultrasonic Directional Speaker for Customer Service Applications Kelly Teoh Kai Ting, <u>Syukran Hakim Norazman</u> Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)
Poster 102 IEICES 12-408	Explainable AI Detection of Brugada ECG Patterns Acyatan, <u>Clyde Ambroz S.</u> , Mejilla, James Elijah G., Raquel, Carlo R., Naval, Prospero C. University of the Philippines Diliman
Poster 103 IEICES 12-409	GEOLink: A Retrieval-Augmented Generation Web Application for Disambiguating Geographic Names in Philippine Biodiversity Occurrence Records <u>Yanni Jose Ella</u> , <u>Monica Ashley Laviste</u> , John Michael Lastimoso, Wilfred John Santiañez, Riza Batista-Navarro, Roselyn Gabud University of the Philippines - Diliman
Poster 104 IEICES 12-520	Fine-Tuned Information Retrieval System for Philippine Fact-Checking Articles <u>Bastian Nathaniel F. Calabia</u> , <u>Joaquin S. Heffron</u> , Roselyn S. Gabud, Paul Rossener R. Regonia University of the Philippines Diliman

Poster 105 IEICES 12-554	LAKOM: Lightweight Archiver and Knowledge Base for Online Media in the Philippines <u>Denver Earl Paul Bugaoisan</u> , <u>Led Rhoniel Salazar</u> , Paul Rossener Regonia Department of Computer Science, College of Engineering, University of the Philippines Diliman
Poster 106 IEICES 12-511	Explainable AI for Post-COVID Loneliness Prediction Joaquin B. Salvador, <u>Paul Rossener Regonia</u> , Chigusa Uchiumi, Nagisa Sugaya, Tetsuya Yamamoto Department of Computer Science, College of Engineering, University of the Philippines Diliman
Poster 107 IEICES 12-239	Cognitive Frontiers in the Age of Algorithms: Mapping Psychological Research in Artificial Intelligence <u>Carmela Buiquil</u> , Jan Darvine Ojeda , Marjun C. Alvarado , Gracechell M. Pascua , Juliet Ruth D. Mozar , Romy Jun A. Sunico Surigao del Norte State University, Philippines
Poster 108 IEICES 12-136	Mitigating Structural Class Overlap in Student Attrition Prediction Using Temporal Feature Engineering and Resampling in a Stacking Ensemble <u>Hazaliza Mat Zean</u> , Nur Haizum Abd Rahman Centre For Mathematical Sciences, Universiti Malaysia Pahang Al-Sultan Abdullah
Poster 109 IEICES 12-525	Analyzing Student Evaluation of Teaching using a Sentiment-Importance Performance Analysis(S-IPA) Framework with BERTopic and XLM-RoBERTa <u>Giovanni T. Esma</u> , Cristopher C. Abalorio Caraga State University, Philippines
Poster 110 IEICES 12-191	SeniorGo: Design and Implementation of a Speech-Enabled Mobile Platform for Inclusive E-Governance in the Philippines <u>Edsel Matt O. Morales</u> , Marry Joy L. Bersabal, Eden Grace M. Bughao Caraga State University, Philippines
Poster 111 IEICES 12-329	Feasibility of Pulsed Eddy Current Technology for Non-Destructive Internal Monitoring of Artificial Agarwood Induction Eza Elhanis Anuwar, <u>Nurmiza Othman</u> , Balkis A. Talip, Nurul A'in Ahmad Latif, Ilham Mukriz Zainal Abidin Universiti Tun Hussein Onn Malaysia
Poster 112 IEICES 12-192	PROPENSITY SCORE MATCHING LOGISTIC REGRESSION OF TARGETED THERAPY FOR NON-SMALL CELL LUNG CANCER (NSCLC) PATIENTS (STUDY AT RSUD Dr. SAIFUL ANWAR, MALANG) Laura Amelia Syafira, <u>Nur Silviah Rahmi</u> , Atiek Iriany, Achmad Efendi Universitas Brawijaya, Indonesia
Poster 113 IEICES 12-547	Disaster-Resilient Emergency Network Using Wi-Fi Direct and Geolocation Services Jun Kyle A. Gulay, Melvin B. Jipos Jr., <u>Clark Justine L. Gonzales</u> Caraga State University, Philippines
Poster 114 IEICES 12-563	Wearable Robotic Prosthetic Arm With Holding Object and Slippage Prevention Mechanism Devin Babu, A.Z. ABADI, Mohd Khairul Bazli Bin Mohd Aziz, Norain Binti Abdullah, <u>Abdul Nasir</u> Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)
Poster 115 IEICES 12-225	Finite Element Analysis of Bone Microdamage in Collared and Collarless Hip Stems <u>Aiman Izmin</u> , Nor Hasrul Akhmal Ngadiman, Muhammad Azfar Noordin, Amir Putra Md Saad, Ardiyansyah Syahrom, Abdul Halim Abdullah, and Mitsugu Todo Universiti Teknologi Malaysia
Poster 116 IEICES 12-232	Effect of Tooth Geometry on the Static Structural Performance of Sago Pith Rasping Blades: A Finite Element Analysis-Based Comparative Evaluation <u>Cindy May C. Belivestre</u> , Marben B. Banhaw, Marcelo G. Cabuquin Caraga State University, Philippines
Poster 117 IEICES 12-295	Engineering Design and Performance Characterization of a Low-Power Dual-Blade PVC Pipe Shredder for Small-Scale Recycling Applications <u>Godfrey Jan B. Bailo</u> , Cindy May C. Belivestre Caraga State University, Philippines
Poster 118 IEICES 12-381	Time-Domain Feature Engineering and Remaining Useful Life Prediction of Roller Bearings Using Vibration Signal Analysis <u>Pathomchon Soisom</u> , Nattachai Pothi, Jiraphon Srisertpol, Sorada Khaengkarn Institute of Engineering, Suranaree University of Technology, Thailand
Poster 119 IEICES 12-451	Structural Performance and Lightweight Optimization of Eco-Vehicle Chassis: A Comparative Evaluation of Aluminum Profiles

	Yahya Zakaria, Davino N Waluyoputro , Antok Subroto, Esa K Roziqi, Avita A Permanasari, Poppy Puspitasari Universitas Negeri Malang, Indonesia
Poster 120 IEICES 12-481	The Effect of Variations in Velocity Stack Blade Design on the Performance of Ethanol-Fueled Energy-Efficient Vehicles Esa Kurnia Roziqi , Antok Subroto, Yahya Zakaria, Davino Nathan Waluyoputro Universitas Negeri Malang, Indonesia
Poster 121 IEICES 12-482	Intake Vortex Velocity Stack Design Optimization on the Efficiency of Ethanol-Fueled Spark-Ignition Engine Antok Subroto , Esa Kurnia Roziqi, Yahya Zakaria, Davino Nathan Waluyoputro Universitas Negeri Malang, Indonesia
Poster 122 IEICES 12-484	Model based Prediction of Speed of Sound for Binary Refrigerant Pairs: R-32/1234yf, R-125/1234yf Alaa Itaiwi , Isha Sameen, Takahiko Miyazaki, Kyaw Thu Kyushu University, Japan
Poster 123 IEICES 12-559	Technoeconomic Analysis of Farm Mechanization Power and Cultivation Costs in Rice Production Systems of Agusan del Norte, Philippines Lhean Kate D. Caila, Mike Angelo C. Lagaret, Art M. Dalman Caraga State University, Philippines
Poster 124 IEICES 12-218	Impact of Bi Doping on optical and Defect Characteristics of Halide Double Perovskite. Aakash Singh , Santosh K. Gupta, K. Sudarshan, Sai Santosh Kumar Raavi Indian Institute of Technology Hyderabad
Poster 125 IEICES 12-352	Facile CTAB-Assisted Hydrothermal Synthesis of Zn₂TiO₄ for Electrochemical Performance Sana Hanif , Khalil-ur-Rehman, Hassan Raza, Ali Haider, Ayesha Hanif Kyushu University, Japan
Poster 126 IEICES 12-526	LEAD RECOVERY FROM USED CUPELS THROUGH AGITATION LEACHING Brytt R. Baldonado , Ruvi Jade M. Cubarol, Joule Clyde P. Tamorite Mindanao State University - Iligan Institute of Technology, Philippines
Poster 127 IEICES 12-601	Recent Advances in Diamond Like Carbon Coatings on Stainless Steel: A Mini Review Rizwan Ul Haq Qurashi , Ahmed Hamed Oraby, Abdelrahman Zkria Ahmed Kyushu University, Japan
Poster 128 IEICES 12-219	Mathematical modeling and development of combined technology for producing composite polymers Zhadyra Artykova M.Auezov South Kazakhstan university
Poster 129 IEICES 12-303	A Novel Temperature Measurement System Redesign for Minimizing Thermocouple Recalibration in Steam-Jacketed Mixing Tanks Lydia Anggraini , Waqar Hussain, Inra Christian, Ghany Heryana, Ekrima Astari President University, Indonesia
Poster 130 IEICES 12-333	Comparative Evaluation of Flexible Textile Sensors for Wearable Motion Monitoring Hyunseung Cho , Jinhee Yang, Hoon Kim Yonsei University, Korea
Poster 131 IEICES 12-338	Environmental Exposome, Oral Microbiome Dysbiosis, and AI-Driven Precision Prevention of Early Childhood Caries: An Integrated Pediatric Dental Biology Perspective Arwa Aboelmaged , Aya Khalaf, Sherif Nesnawy Minia university, Egypt
Poster 132 IEICES 12-374	Comparative Keller Box Simulation of Casson Ternary Hybrid Nanofluid with Water and Propylene Glycol-Water Base Fluids under g-Jitter Mixed Convection over an Inclined Stretching Sheet Siti Aisyah Abdul Kadir , Sharidan Shafie, Noraihan Afifah Rawi Universiti Teknologi Malaysia
Poster 133 IEICES 12-528	Synergistic Anti-Cariogenic Potential of Philippine Tuba-Derived Limosilactobacillus fermentum via Phenotypic Biofilm Disruption and qPCR-validated Transcriptional Repression of Streptococcus mutans Virulence Genes Jonier M. Badayos , John William E. Cadungog, Arabella Grace A. Sugano, Cecilia Ina Mae D. Cadelina, Flabie Swithered S. Caducoy, Francine Miles C. Gamboa, Jan Reina B. Bataculin, Jesulyn Rose B. Maguinsay, Keziah Cybi O. Laurio, Lottie Mae G. Torres, Michelle Anne Franzienne C. Fernando, Irina Concepcion G. Rivera, Yazzmien Sybil M. Rodriguez, Jefferyl Kae Pandac

