11th International Exchange and Innovation Conference on Engineering & Sciences (IEICES) 2025

Conference program

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

Venue information

Chikushi hall
First floor

G-Building
Second &third floor

Onojo Gate

Onojo Station

Kasuga Gate

First day — Oct.30th (Thursday)

09:30	10:00	Registration (Lobby, C-Cube Building)
10:00	10:10	*Welcome Speech*: Prof. Osama Eljamal
10:10	10:40	Open Remark and Introduction of IGSES: Dean of IGSES: Prof. ITO Kazuhide
10:40	11:00	Photo Session and Coffee Break

Keynote Session K1 (Chikushi Hall)

Session Chair *Okendo Otieno & Mohammed Lamien*

11:00	11:30	Title: High-Capacity Anodes for All-Solid-State Lithium Batteries Using In-Situ formed Solid Electrolyte. Speaker: Associate Professor Atsushi Inoishi, Chemistry and Materials Science, **Kyushu University, Japan**
11:30	12:00	Title: Engineering NiTi Alloys for Biomedical Applications: Advances in Metal Injection Moulding and Additive Manufacturing Speaker: Professor Muhammmad Hussain Ismail, **Universiti Teknologi MARA, Malaysia**
12:00	13:15	Break

Session 1

Venue		C-Cube Chikushi Hall	G-Building, Room 206	G-Buiding, WEEL Room 310
Session Chair *Co-chair*		*Sana Hanif* Ding Jianning	*Oraby Ahmed* *Heba Mohamed*	*Mohamed Omar* *Abdirashit Altynai*
13:15	13:23	**IEICES 11-009 Fenton-like reaction enhanced the CO2 capture performance of biomass carbon** Xiaoran He, Taibao Zhao, Md. Amirul Islam, Bidyut Baran Saha, Osama Eljamal **Kyushu University, Japan**	**IEICES 11-227 Enhancing Attention Synergy Networks with Lightweight Encoders for Efficient Brain Tumor Segmentation** Shaun Niel A. Ochavo, Armiex Jay J. Roble, Roland P. Abao **Caraga State University, Philippines**	**IEICES 11-027 Experimental Study on the Mechanical Properties of Concrete with Pyrolyzed Spent Coffee Grounds** Cheryl Lyne C. Roxas, Kenneth Jae T. Elevado, Nicanor R. Roxas Jr, Sebastian O.Chenglay,Patrick Ryan M. Estacio, Jason Jeffrie H. Ngo, Sydney N. Chan **DE LA SALLE UNIVERSITY – MANILA, PHILLIPINES**
13:23	13:31	**IEICES 11-018 Thermophysical properties of pure HFO-1132a and HFO-1132a & HFC-134a binary blends' refrigerants from 240 K to 300 K using MD simulation** Sanzida Akter, Rifat Ara Rouf, Md. Rakibul Hasan and Md. Sarwar Alam **Jagannath University, Bangladesh**	**IEICES 11-076 Optimal Placement of Renewable Energy Power Generation Based on Sensitivity Analysis: Case of the IEEE 33 BUS Radial Distribution System** Edwin Otieno Okendo, Cyrus Wekesa, Farzaneh Hooman **Kyushu University, Japan**	**IEICES 11-029 UTILIZATION OF CHICKEN FEATHER ASH AS PARTIAL REPLACEMENT FOR CEMENT WITH COCONUT SHELLS AS COARSE AGGREGATES.** Patrick Miel G. Cordova, Angello Francis C. Magno, Therese Ysabela S. Resulta, Daniel Nichol R. Valerio and Ma. Klarissa M. Daly. **De La Salle University, PHILLIPINES**
13:31	13:39			
13:39	13:47	**IEICES 11-031 Development of Rainwater Hydroelectric and Solar Technologies for Renewable Energy towards Sustainability Campus.** Mohd Khairul Amri Kamarudin, Siti Nor Fazillah Abdullah, Ahmad Shakir Mohd Saudi,Ismafatin Nabilah Ismail, Firdaus Mahamad Ali, Lokman Abd Rahman, Firdaus Muhammad-Sukki **Universiti Sultan Zainal Abidin, Malaysia**	**IEICES 11-083 A Real-Time Illegal Parking Detection System with Automatic License Plate Number Recognition** Glaciel A. Araneta, Junrie B. Matias, DIT, Riah E. Encarnacion, DIT. **Caraga State University, Philippines**	**IEICES 11-085 The Relationship of Geomagnetic Storm Intensity with The Solar Interplanetary Environment: An Analysis of Two Major Events in 2023** Sharifah Nurul Aisyah Syed Zafar, Roslan Umar, Nor Hazmin Sabri, Zulaikha Mohd Afandi **East Coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin, Malaysia.**
13:47	13:55	**IEICES 11-065 EFFECT OF BERMUDA GRASS ROOTS ON THE SHEAR STRENGTH OF SOIL** Joenel Galupino, Ram Voltaire Gonzaga, Geofferson Montemayor, and Erica Elice Uy **De La Salle University, Philippines**	**IEICES 11-103 A Vision-Based Approach for Mango Size Classification Using Fuzzy Logic** Jolitte A. Villaruz, Jeffrey A. Clarin, Miquel Von R. Oquendo, Carolyn F. Salazar, Lilanie N. Cubita **Aklan State University, Philippines**	**IEICES 11-139 Modeling Critical Success Factors in Flood Control Infrastructure: Toward a Theory of Effective Quality Management Systems** J. Berlin P. Juanzon, Rhodora F. Dayco, Vien Carlo M. Amora. **Pamantasan ng Lungsod ng Maynila (University of the City of Manila), Philippines**

13:55 14:03	**IEICES 11-069 Enhancing the Phytoremediation Performance of Sorghum bicolor in Petroleum-Contaminated Soil via Dual-Function Azotobacter sp. Inoculation** **Pujawati Suryatmana,** Wulan Feitriani, Mieke Rochimi Setiawati, Arga Riztama and Wahyudi Widyatmoko Parnadi **Universitas Padjadjaran, Indonesia**	**IEICES 11-148 Leveraging LDA and TF-MONO to Enhance Spam Email Categorization** Janice Jane C. Floreta, Frances Ruth M. Magayon, Leo C. Magallanes, **Cristopher C. Abalorio,** Regien B. Bakazato,Roland P. Abao, Vicente A. Pitogo **Caraga State University, Philippines**	**IEICES 11-183 Development of Seismic Fragility Curves for Kinaadman Hall** **Sicenio D. Abera Jr.,** Jomarie S. Agrade, Marc Louie C. Caintoy, Michael B. Baylon **Caraga State University, Philippines**
14:03 14:11		**IEICES 11-150 Image Processing and Structural Similarity-Based Evaluation of Hand-Drawn Engineering Sketches** Jenie L. Plender-Nabas, Bryan Papel, Julius A. Azarcon III, Keen Christopher D. Villones, **Jesterlyn Q. Timosan** **Caraga State University, Philippines**	**IEICES 11-315 Gold-Copper Prospectivity Mapping in Masara Gold District, Eastern Mindanao, Philippines through the Analytical Hierarchy Process (AHP) Approach** **Nichole Anthony D. Pacle**, Maria Kyla Liza B. Clemeno, Keana Dessinie L. Villar, Elijah U. Abarca,Apple Yano, Shaira Enriquez-Balidoy. **Caraga State University, Philippines**
14:11 14:19	**IEICES 11-080 Assessing the potentiality of Eco-Enzyme as a household cleaning agent.** **Miah Mohammad Zinnah,** Md. Shafiqul Islam Kyushu University, Japan	**IEICES 11-317 Design and Development of Institutional Scientific Publications, Innovation, and Research Management System (INSPIRE-MS) with Descriptive Analytics for the Digitalization of University Research Management Processes** **Allemar Jhone P. Delima,** Jan Carlo T. Arroyo, April Rose A. Zaragosa, Bella Gertrude B. Alpasan, Anrem J.Balontong, Ladelyn R. Tolentino **Northern Iloilo State University, Philippines**	**IEICES 11-187 Modeling PCM-Based Passive Cooling Strategies for Heat Adaptation in Low-Income Housing in Indonesia** **Solli D. Murtyas,** N. Alya Farrasti, Aris S. Augustina, Kusumaningdyah N.H, Rizki A. Mangkuto, Muhammad Iqbal, Suhendri **Bandung Institute of Technology, Indonesia**
14:19 14:27	**IEICES 11-126 Developing Affordable Cool Roof Tiles from Construction Waste for Thermal Insulation in Hot Climates: An Experimental Study** Yassmin A. Basyouni, Hassan Shokry, Ryo Murata, **Hatem Mahmoud** Egypt-Japan university of science and technology, **Egypt**	**IEICES 11-168 GPUMusket: A Parallelized GPU-Accelerated Pre-Processing Algorithm on Substitution-Based Errors for Short-Read Sequences in De Novo Genome Assembly** Gio Gonzales, Mary Abigail Soliva, **Rudolph Joshua Candare** **Caraga State University, Philippines**	
14:27 14:35	**IEICES 11-127 Waste-Based Concrete for Sustainable Urban Design: Energy and Comfort Benefits across Block Typologies** **Hatem Mahmoud,** Nourhan M. Waly **Egypt Japan University Of Science & Technology**	**IEICES 11-064 3D Bioprinting of Polycaprolactone Hybrid Construct in Bone Tissue Engineering** Khalida Fakhruddin, Mohamad Ikhwan Kori, **Muhammad Faiz Md Shakhih,** Mohamad Ikhwan Jamaludin **University Teknologi Malaysia, Malaysia**	**IEICES 11-220 Relationship between Crack Depth and Peak Acceleration for Reinforced Concrete Specimens** Aina Irdina Md Rosni, **NH Abd Ghafar,** Nur Shahelly Mansor binti Mohamad Mansor, Lyn Dee Goh. **Universiti Tun Hussein Onn Malaysia**
14:35 14:43	**IEICES 11-136 Understanding Community Perceptions on Watershed Sustainability: Socioeconomic and Environmental Insights from the Sambunotan Watershed** **Carmel S. Burlat,** Lorie Cris S. Asube, Rex B. Makinano, Meriam M. Santillan **Caraga State University, Philippines.**	**IEICES 11-201 Trade-off Analysis Between Temporal Window Durations and Performance of Patient Deterioration Predictive Models Based on Machine Learning** Kai Wei Tay, **Asnida Abdul Wahab,** Yuan Wen Hau, Gan Hong Seng **Universiti Teknologi Malaysia, Malaysia**	**IEICES 11-373 Experimental Investigation on the Flexural Response of RC Beams Strengthened with NSM Steel Bars at Elevated Temperatures** **Lyn Dee Goh,** Muhammad Adam Syahmi Dazulhisham, Muhammad Arif Ikmal Abdul Halim, N.H Abd Ghafar **Universiti Teknologi MARA, Penang Branch, Malaysia**
14:43 14:51		**IEICES 11-206 An Analysis on Camera Pose Estimations based on Varying Physical Variables of ArUco Markers** **Nicanor R. Roxas Jr,** Aron Jake P. Vidad, Rudwin Paul B. Abastillas, Renann G. Baldovino, Nilo T. Bugtai, Elmer P.	**IEICES 11-395 Predicting the Influence of Superplasticizer on the Mechanical Properties of Rice Husk Ash-Based Self-Compacting Concrete (RHA-SCC)**

		Dadios, Ryan Rhay P. Vicerra, Argel A. Bandala, Aaron Raymond See **De La Salle University, Philippines**	**Fatimah Zahrau Muhammed,** Okorie Austine Uche, Ibrahim A. Raheem, Abdulwahab, M.T **Kyushu University, japan**
14:51 15:10	Break		

Session 2

Venue 3rd floor C-cube building

15:10 -16:10 **Poster session**

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

Session 3

Venue	C-Cube Chikushi Hall	G-Building, Room 206	G-Buiding, WEEL Room 310
Session Chair *Co-chair*	*Sun Zhaochen* *Alphonce Mulumba*	*Abdirashit Altynai* *Sana Hanif*	*Ibrahim Atito* *Mohamed Omar*
16:15 16:23	**IEICES 11-153 A Multi-Criteria Sustainability Framework for Seaport Site Selection: Integrating the Triple Bottom Line and Analytic Hierarchy Process** Enrico Ali G. Lachica, **Joseph Berlin P. Juanzon**, Vien Carlo M. Amora, Christopher H. Ornum **(University of the City of Manila) Philippines**	**IEICES 11-208 Design and Analysis of a Miniaturized Triple-Band Implantable Antenna for Biomedical Applications** **Porworamon Changkol, Sopanarin Mongkolcharoensri,**Keerati Kirasamutranon, Paleerat Wongchampa and Lerson Kirasamuthranon **King Mongkut's University of Technology North Bangkok, Thailand**	**IEICES 11-026 Biomass Cookstove-Integrated Thermoelectric Generator: Waste Heat Recovery for Off-Grid Power Generation** **Muhammad Fairuz Remeli,** Muhammad Hariz Azfar, Baljit Singh **Universiti Teknologi MARA (UiTM) Shah Alam/ Malaysia**
16:23 16:31			**IEICES 11-073 Thermal-electrical-hydraulic Behaviour of Al2O3:SiO2 in Charged Cooling Channel** Nurul Huda Abd Azid, **Irnie Azlin Zakaria**, Wan Ahmad Najmi Wan Mohamed, Nurlisa Hamzan **Universiti Teknologi MARA (UiTM) Shah Alam/ Malaysia**
16:31 16:39	**IEICES 11-161 Image-Based Analysis and Optimization of Physical Defect Classification in Dried Cacao Beans (Theobroma cacao L.)** Kyle Ivan L. Casindac, Princess Mae H. Cabije, Re-Ann Cristine O. Calimpusan, **Engr. Charle Magne L. Cillo** **Caraga State University, Philippines.**	**IEICES 11-217 GSM-Enabled Integrated System for Real-Time Monitoring, Control, Diagnosing, and Troubleshooting of Street Lighting in Geographically Isolated and Disadvantaged Areas of Caraga Region, Philippines** **Edgardo Ricardo B. Sajonia Jr.,** Jive Ian A. Bogwat, Roderick C. Gutierrez, Roderick C. Gutierrez, Jeffrey T. Dellosa, Alexander T. Demetillo, Hanzel B. Caringal. **Caraga State University, Philippines**	**IEICES 11-086 Applications of Biomass-Derived Carbon in Supercapacitor Energy Storage: A Review** **Taibao Zhao**, Bidyut Baran Saha **Kyushu University, Japan**
16:39 16:47	**IEICES 11-162 QuakeSense: Design and Implementation of an IoT-Based Earthquake Alert System Powered by Raspberry Shake 4D with Solar Technology Integration** Gretchen Mae G. LLerin, Jenevive B. Repon, Ralph Ryan M. Buco, **Re-Ann Cristine O. Calimpusan**, Nichole Anthony Pacle. **Caraga State University, Philippines.**	**IEICES 11-226 Enhancing Large Language Model Efficiency through Sequence-Level Knowledge Distillation with Sparse Transformers** Ronald John C. Atanoso, Dan Victor B. Lofranco,**Roland P. Abao** **Caraga State University, Philippines**	**IEICES 11-096 Effect of Nanoparticles in Free Convection Casson Boundary Layer Flow Near a Stagnation Point Region under Microgravity Environment** **Mohamad Hidayad Ahmad Kamal**, Ahmad Faiz Ahmad Shah, Norshakila Abd Rasid, Noraihan Afiqah Rawi, Sahridan Shafie **Universiti Teknologi MARA (UiTM) Shah Alam/ Malaysia**

16:47 16:55	**IEICES 11-207 Biorefinery potential of flue gas wastewater by thermophilic cyanobacteria isolated from a Malaysian hot springs** Song Rong Sheng, Nur Izzati Mohd Noh, Phoon Bao Yi, Shamila Azman, **Anthony Nyangson Steven** **UNIVERSITI TEKNOLOGI MALAYSIA, MALAYSIA**	**IEICES 11-151 Dynamic Time Allocation for Traffic Controller Using IoT, Deep Learning and Reinforcement Learning** April Castro, Mary Rose O. Raz, Lyn M. Villacorta, Paulo A. Duga, Jundee Mark Molina, James Earl Cubillas, Rudolph Joshua U. Candare, **Junrie B. Matias** **Caraga State University, Philippines**	**IEICES 11-134 A Container Volume Flow Rate and Heat Transfer Analysis for Portable Gummy Cooking Apparatus** Mohd Muzaffar Zahar, Norezmi Jamal, Mahmod Abd Hakim Mohamad, **Mohd Farizzal Dolah Muhamad.** **UNIVERSITI TUN HUSSEIN ONN MALAYSIA, MALAYSIA**
16:55 17:03	**IEICES 11-235 Customization of contour lines generated with conditional parameters using Python.** **Mohd Khairul Bazli Bin Mohd Aziz,** Muhammad Akram Bin Mohamad A'sim, Wan Rozaimi Bin Wan Mustafa **UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH, MALAYSIA**		**IEICES 11-165 IoT-Based Vibration Condition Monitoring System for Rotating Machinery Fault Detection** Muhamad Mursyied Mahazani, Muchamad Oktaviadri, **Ahmad Shahir Jamaludin** and Ahmad Razlan Yusoff **Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia**
17:03 17:11	**IEICES 11-251 Artificial Intelligence Applications in Water Treatment Systems: A Mini Review** **Luo Yi,** Osama Eljamal **Kyushu University, Japan**	**IEICES 11-265 IoT-Based Real-Time Wearable Shirt System for Health and Location Monitoring of Workers in the Mining Industry** Alexander T. Demetillo, Raphael L. Osorio, Ronarc Ramos, **Lovely Mae Dagsa**, Edgardo Ricardo B. Sajonia Jr. **Caraga State University, Philippines**	**IEICES 11-141 Compression Testing and Thermal Assessment on Newly Developed Universal Design (Kedidi) of Prosthetic Leg Socket: A Patient-Specific Study** Muhammad Hanif Ramlee, Muhammad Hanif Baharuddin, Syafiq Redzuan Abdullah, Siti Nur Syakirah Abdullah, **Asnida Abdul Wahab**, Mohamad Ikhwan Jamaluddin, Muhammad Faiz Md. Shakhih, Gan Hong Seng, Mohamad Ikhwan Kori **Universiti Teknologi Malaysia (UTM), Malaysia**
17:11 17:19	**IEICES 11-256 Socio-Economic Impacts of Farm-To-Market Roads in Selected Barangays in Surigao Del Norte, Philippines** **Sajonia, Anamarie P.,** Mapa, Misca Eleonor M., Martizano, Leann Mae E. **Caraga State University, Philippines**	**IEICES 11-268 Learning Robotic Arm Control From Demonstration: An Exploration and Comparative Study of Imitation-Based Learning Approaches For Robotic Manipulation Task in a Webots Environment** Jelbert C. Zamora, Rodrigo M. Raga Jr., **Rudolph Joshua U. Candare** **Caraga State University, Philippines**	**IEICES 11-186 Aging Effects on Aqueous Humour Flow** **Han Nee Yong**, Yeou Jiann Lim, Zuhaila Ismail **Universiti Teknologi Malaysia, Malaysia**
17:19 17:27	**IEICES 11-326 Transforming Extreme Heat into Opportunity: A Systems Resilience Framework for Health and Energy in the UK and Japan** Ho Thanh Tam, Brian Castellani, **Nadzirah Ikasari Syamsul**, Colin Manning, Cathrene Lagare, Richard Oduro, Xuoesng Wei, Saiful Mangngenre **Kyushu University, Japan**	**IEICES 11-272 Variable Strength Sand Cat Swarm Optimization (VSCSO) for T-Way Combinatorial Test Suite Generation** Muhammad Aiman Mohd Asyraf, **Mohd Zamri Zahir Ahmad**, Rozmie Razif Othman, Ahmad Ashraf Abdul Halim, Kentaro Go, Murad Muhammad Hasan Salih Al-Walidi, Anjila J Suali, Nurol Husna Che Rose, Fatinnabila Kamal. **Universiti Malaysia Perlis, MALAYSIA**	**IEICES 11-204 The Hybrid TiO2:SiO2 in Biodegradable oil: Effect of the Mixture Ratio** **Khairul Nurliyana Khairul Salleh,** Irnie Azlin Zakaria, Nurlisa Hamzan, Nurul Huda Abdul Azid, Ahsana Aqilah Ahmad, Zainoor Hailmee Solihin. **Universiti Teknologi MARA, Shah Alam, Malaysia**
17:27 17:35	**IEICES 11-341 Integrated Modeling and Spatial Analysis of Rice Production Waste Streams for Sustainable Resource Management in Agusan del Norte, Philippines** **Michelle V. Japitana,** Darlyn B. Chatto, Remle Nyl F. Ondoy, Lorie Cris S. Asube **Caraga State University/Philippines.**	**IEICES 11-273 A Comprehensive Strategy for Generating Near-Optimum Test Suites for Uniform Strength using Hybrid Whale Algorithm and Q-Learning Optimization (WhaleQLO)** Anjila J Suali, Nuraminah Ramli, **Rozmie Razif Othman,** Nurol Husna Che Rose, Hasneeza Liza Zakaria, Iszaidy Ismail, Intan Dzikria, Aini Syuhada Md Zain. **University Malaysia Perlis, MALAYSIA**	

17:35 17:43	**IEICES 11-364 Model Markers of the Aquatic Mountain Ecosystem of Issyk-Kul: Assessment of the Influence of Key Qualitative Parameters** Sharshenbek Jusupkeldiev, Anar Zaripova, **Kalipa Salieva,** Bakyt Borkoev, Alina Kerimbaeva, Nurila Mambetjanova, and Tyrgynbek Nyazov . **Kyrgyz-Turkish Manas University, Kyrgyzstan**	**IEICES 11-284 Application of Sewing Training-Based Optimization in Generating Effective Input-Output Relation-Based for the T-Way Test Suite Generation Strategies** Murad Muhammad Hasan Salih Al-Walidi, **Ahmad Ashraf Abdul Halim,** Mohd Zamri Bin Zahir Ahmad, Nuraminah Ramli, Hasneeza Liza Zakaria, Muhammad Aiman bin Mohd Asyraf, Kentaro Go, Mohamad Shukor Abdul Rahim **University Malaysia Perlis, MALAYSIA**	**IEICES 11-230 Tribological Study of TiO2 Biodegradable Nanolubricant for Cooling in Minimum Quantity Lubrication (MQL)** **Nurlisa Hamzan,** Irnie Azlin Zakaria, Nurul Huda Abdul Azid, Khairul Nurliyana Khairul Salleh, Nurul Hayati Abdul Halim, Afifah Zakiyyah Juri. **Universiti Teknologi MARA, Shah Alam, Malaysia**
17:43 17:51	**IEICES 11-384 Agricultural Plastic Waste Mapping in Rice Farms: A Geospatial Analysis Approach** **Michelle V. Japitana**, Aljun J. Sevilles, Ruby May G. Donan, Lorie Cris S. Asube **Caraga State University/Philippines**	**IEICES 11-328 Comparative Analysis of the Fuzzy Time Series Chen and Saxena-Easo Model on the Closing Price of the Composite Stock Price Index** Fitria Ismiarti, **Siti Komsiyah,** Jeklin Harefa, Syarifah Diana Permai. **Bina Nusantara University, Indonesia.**	**IEICES 11-238 Analytical Solution of Rotating MHD Casson Fluid Flow in Moving Vertical Channel with the Effect of Suction: Centrifugal Pump** **Mohamad Riduan Hashim**, Zulkhibri Ismail, Ahmad Qushairi Mohamad, Laila Amera Aziz. **Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), Malaysia**
17:51 17:59	**IEICES 11-393 Assessing the Co-Benefits of Carbon Capture Technology at Energy Plants in Southern Malaysia** **Nur Safirah Bahuriddin,** Hooman Farzaneh, Muhamad Zameri Mat Saman, Nurhasyimah Mohamed-Ali **Universiti Teknologi Malaysia, Malaysia**	**IEICES 11-299 Fuzzy Logic-Based Hydroponic Vertical Farming System Using UVC for Pathogen and Pest Control** Edgardo Ricardo B. Sajonia Jr., Ydron Paul C. Amarga, **Jeffrey T. Dellosa**, Lovely S. Semblante, Mary Ann A. Relabo. **Caraga State University/Philippines**	**IEICES 11-055Carbon Coating Methods for Magnesium Alloys: Materials, Mechanisms, and Corrosion Behaviors.** **Ahmed H. Oraby,** Tsuyoshi Yoshitake, Abdelrahman Zkria **Kyushu University, Japan**
17:59 18:05	Closing Remarks		

Second Day — Oct.31th (Friday)

Venue	**Keynote Session K2 (Chikushi Hall)**	
Session Chair	*Khadija Khatun & Ekrima Astari*	
09:30 10:00	Title: Intelligent IC Design: The Convergence of AI and Semiconductor Engineering Speaker: Associate Professor Sohiful Anuar Zainol Murad, **Universiti Malaysia Perlis, Malaysia**	
10:00 10:30	Title: The Blue Beneath: Wastewater Reimagined for Planetary Health. Speaker: Associate Professor Norhayati ABDULLAH, **Tokyo City University, Japan.**	
10:30 10:50	Break	

Session 4

Venue	C-Cube Chikushi Hall	G-Building, Room 206	G-Buiding, WEEL Room 310
Session Chair *Co-chair*	*Muhammed Fatimah Zahrau* *Shiotsuki Masahiro*	*Heba Mohamed* *He Xiaoran*	*Oraby Ahmed* Ding Jianning
10:50 10:58	**IEICES 11-005 Three-dimensional Modelling and Mesh Convergence Analysis of Transtibial Prosthetic Socket using Finite Element Method** Muhammad Hanif Baharuddin, Mohammed Rafiq Abdul Kadir, Muhammad Hanif Ramlee. **Universiti Teknologi Malaysia, Malaysia**	**IEICES 11-276 Mechanical Car Jack Pilot Upper Limb Biomechanics Evaluation** Nursalbiah Nasir, Mohamad Afiq Mohamad Nasir, Siti Syazwana Suhaimi, Helmi Rashid, Mohamad Azlan Mohamed Shapie, Mohd Hafiz Awang Hassim, Irma Nur Afiah **UITM, Malaysia.**	**IEICES 11-008 EFFECTIVENESS OF GOLDEN APPLE SNAIL SHELLS (Pomacea cana-liculata) AND YELLOWFIN TUNA BONES (Thunnus albacares) AS A POTENTIAL SOURCE OF BIOCERAMICS HYDROXYAPATITE APPLICATION** Levitah C. Mapatac, Eloisa Marie G. Cahiles, Apphia Kezia R. Trillo and Jo Dee B. Salise **Caraga State University, Philippines.**
10:58 11:06	**IEICES 11-006 Enhancing Image-Based Detection of Acute Lymphoblastic Leukemia in Convolutional Neural Networks through Threshold Segmentation** Saja Basheer Attallah, Muhamad Amin Abd Wahab, Muhammad Faiz Md Shakhih, Mohamad Ikhwan Kori. **Universiti Teknologi Malaysia, Malaysia**		**IEICES 11-014 Morphology and Mechanical Properties of Polyvinyl Alcohol Nanofibres Incorporated with Graphene Oxide** Dilara Ashrafi, Nor Dalila Nor Affandi, Noor Najmi Bonnia. **Universiti Teknologi MARA, Malaysia**
11:06 11:14	**IEICES 11-239 Digital Health Technologies in Low-Income Countries: Bridging Gaps in Personalized Preventive Care Through Telemedicine, Electronic Health Records, and AI-Driven Nursing Informatics** Sherif Nesnawy **Minia University, Egypt**	**IEICES 11-323 Non-Destructive Testing of Hydraulic Cylinder Excavator Bucket and Failure Analysis** Muhammad Sudania, Lydia Anggraini, Waqar Hussain **President University, Indonesia**	
11:14 11:22	**IEICES 11-129 Systematic Development of a Wireless Surface Electromyography (sEMG) System** Helmi Rashid, Nursalbiah Nasir, Alias Mohd Saman, Mohammad Azzeim Mat Jusoh, Mohd Nor Azmi Ab Patar, Mohd Hanif Mohd Ramli, Mohamad Azlan Mohamed Shapie, Mohd Hafiz Awang Hassim. **Faculty of Mechanical Engineering, Universiti Teknologi MARA, Malaysia**	**IEICES 11-334 A Critical Review oqf Micro-Texturing Techniques using Surface Engineering for Enhanced Heat Dissipation in Electronic Devices** Huzaifah Mohd Shah, Mohd Nizar Mhd Razali, Muhamad Arifpin Mansor, Mohamad Rusydi Mohamad Yasin, Ahmad Shahir Jamaludin. **Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia**	**IEICES 11-084 Fluorescent CsPbBr3/Cs4PbBr6 Nanocomposite Perovskite, Towards Achieving Stability Prospects: Optical Properties, Synthesis Approaches, and Versatile Applications.** Mohamed Omar, Dongyuan Song, Mohamed M. Taha, Aboubakr H. Abdelmonsef, and Sen Po Yip. **Kyushu University, Japan.**
11:22 11:30	**IEICES 11-142 In Silico of PLA and ABS Materials and Kinematics Analysis of 3D-Printed Transtibial Prosthetic Leg: A Patient-Specific Design** Muhammad Hanif Ramlee, Muhammad Izzuddin Abd Samad, Wan Hanis Rifhan	**IEICES 11-363 Experimental Assessment of Cross-Ventilation Effectiveness in Idealized Models with Roof Openings** Deanna Jane Laurent Muhammad Ariff, Ahmad Faiz Mohammad, Sheikh	**IEICES 11-258 Carboxymethyl Cellulose Doped Ammonium Iodide Solid Biopolymer Electrolytes: Electrical and Structural Analysis** N.H. Ahmad, M.N.H. Mahmud, Nurhafizah, H., F.E. Zainuddin.

	Wan Adeli, Muhammad Hanif Baharuddin, Asnida Abdul Wahab, Aizreena Azaman, Gan Hong Seng, **Abdul Halim Abdullah,** Mohammed Rafiq Abdul Kadir. **Universiti Teknologi Malaysia (UTM), Malaysia**	Ahmad Zaki, Miko Hadi Wijaya, Nurrizatul Atikha Rahmat. **Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Malaysia**	**UNIVERSITI TEKNOLOGI MALAYSIA, JOHOR, MALAYSIA.**
11:30 11:38	**IEICES 11-154 ASSOCIATION BETWEEN A NEW CLASSIFICATION OF PSYCHOLOGICAL, DISABILITY AND POSTURAL INSTABILITY IN NONSPECIFIC CHRONIC LOW BACK PAIN** Rahmat Adnan, Muhammad Naufal Qayyim Khairulnizam, Muhammad Nadzhan Ruzaini, **Siti Nurul Ezzah Che Man,** Hamad Haziq Ismail, Dzulhafiz Zikrie Dzulkapli, Nuramnani Suffiya Rohim@Rahim, Muhammad Nur Syahid Mohd Pozi, Nurariqah Nazihah Alham, Nurul Ain Syazwani Zulkarnain @ Ismail, Norshahizah Halidi, Norasrudin Sulaiman, Hashbullah Ismail, Mazuin Mohd Razalli, Shariman Ismadi Ismail **Faculty of Sports Science and Recreation, Universiti Teknologi MARA, Malaysia.**	**IEICES 11-366 Analysis of Grasping Force of Random Selected Objects For Children Robotic Prosthetic Arm.** Syukran Hakim, Devin Babu, Abdul Nasir, MRRM Amin, Norain Binti Abdullah. **UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH, MALAYSIA**	**IEICES 11-229 Preparation and Characterization of Cellulose-based Composite Films Using Pyridinium-based Ionic Liquids** **Temmy Pegarro Vales** and Evelyn C. Creencia. **Caraga State University, Philippines**.
11:38 11:46	**IEICES 11-248 Effects of nutrients and photoperiod on production of polyhydroxyalkanoates (PHAs) by thermophilic cyanobacteria** Alicia Lee Jia Wong, Anthony Nyangson Steven, Shamila Azman, **Nur Izzati Mohd Noh** **Universiti Teknologi Malaysia, Malaysia**	**IEICES 11-378 Implementing a Cost-Effective IoT Control System for Real-time Operational Monitoring: A Case Study in a Malaysian Automotive SME Factory** Mohammad Saefullah Noorpini, Muhammad Haffizol Suffian, Mohamad Khairi Hassan, Suzilawati Muhamud-Kayat, **Mohd Hazri Mohd Rusli** **Universiti Teknologi MARA, Malaysia**	
11:46 11:54	**IEICES 11-089 Frequency Assessment for Radio Astronomy in the Hydrogen Line: Statistical Investigation at Pusat Astronomi Borneo, Malaysia.** **Ahmad Hariz Bely**, Roslan Umar, Nor Hazmin Sabri, Razalie Husaini, Nur Zulaikha Mohd Afandi, Sharifah Nurul Aisyah Syed Zafar, Liheng Yang, Jazeel H. Azeez. **East Coast Environmental Research Institute, Universiti Sultan Zainal Abidin, Malaysia**	**IEICES 11-342 BIOLOGICALLY ACTIVE SUBSTANCES MEDICAL PLANTS GROWING IN KYRGYZSTAN** **Salieva Kalipa,** Emil Omurzak uulu, Borkoev Bakyt, Zhyldyzbek kyzy Elena. **Kyrgyz-Turkish Manas University, Bishkek, Kyrgyzstan.**	**IEICES 11-172 STRUCTURAL, MECHANICAL AND OPTICAL PROPERTIES OF ZINC-STRONTIUM-LITHIUM PHOSPHATE GLASS DOPED WITH CHITOSAN** Siti Norfariza Farhana Binti Mohd Razak, Adibah Hanisah Binti Samsudin, **Nurhafizah Binti Hasim,** Nur Hidayah Binti Ahmad, Norshahirah Binti Mohamad Saidi, Mohd Fuad Bin Mohamad. **UNIVERSITI TEKNOLOGI MALAYSIA (UTM), MALAYSIA.**
11:54 12:02	**IEICES 11-399 CTAB mediated Calcination-Free Hydrothermal Reaction Mechanism and Electrochemical Study of Zn2SnO4 (ZSnO) Nanoflakes.** **Sana Hanif,** Syed Mustansar Abbas, Khalil-ur-Rehman. **Islamia University of Bahawalpur, Pakistan.**	**IEICES 11-286 ESTIMATION OF CROP COEFFICIENT AND RESPONSE OF TOMATO (*Lycopersicon esculentum* Mill.) TO DEFICIT IRRIGATION** Salvacion N. Christy, Roger A. Luyun, Jr. Rubenito M. Lampayan. **University of the Philippines.**	**IEICES 11-082 Utilizing Machine Learning Approaches in Predicting the Impact of Climate Change Factors to Common Seasonal Diseases Outbreak** **Riah E. Encarnacion**, DIT **Caraga State University, Philippines**
12:02 13:30	Break		

Session 5

Venue	C-Cube Chikushi Hall	G-Building, Room 206	G-Buiding, WEEL Room 310
Session Chair *Co-chair*	*Wu Binsheng* *Sun Zhaochen*	*Mohamed Omar* *Sana Hanif*	*Khadija Khatun* *Muhammed Fatimah Zahrau*
13:30 13:38	**IEICES 11-015 Assessment of Light Pollution at New Crescent Moon Observation Sites in Terengganu, Malaysia: A Multi Brightness Metric Approach** Roslan Umar, Ahmad Hariz Bely, Norhazmin Sabri, Ahmad Lutfi Afifi Mohd Nasir, Ihsanuddin Ismail, Emma Zulaiha Zulkifli, Amirul Akmal Redzuan, Arwin Juli Rakhmadi, Ahmad Taufan Abdul Rasyid, Mohamad Sabri Haron, Syed Hadzrullathfi Syed Omar & Musa Garba Abdullahi **Universiti Sultan Zainal Abidin (UniSZA), Malaysia.**	**IEICES 11-067 Rapid Detection and Spatial Risk Assessment of Banana Bract Mosaic Virus (BBrMV) in Abaca (Musa textilis Nee) in the Caraga Region, Philippines** Jezmeir Rey Porras, Maria Kritina A. Melencion, Joanne A. Langres, Elizabeth P. Parac. **Caraga State University, Philippines**	**IEICES 11-245 The Exact and Statistical Studies on Unsteady Rotating Second Grade Fluid through Riga Plate.** Ahmad Qushairi Mohamad, Nordin Zakaria, Sharidan Shafie, Ilyas Khan, Dumitru Vieru **University Teknologi Malaysia, Malaysia.**
13:38 13:46	**IEICES 11-030 Spatiotemporal Analysis and Forecasting Model in Tropical River Basin for Sustainability Land Management** Mohd Khairul Amri Kamarudin, Ismafatin Nabilah Ismail, Ruslan Umar, Mohd Armi Abu Samah, Nurbaiti Usman Siam, M. Idris. **Universiti Sultan Zainal Abidin, Malaysia**	**IEICES 11-070 Valorization of Agricultural By-Products as Functional Ingredients in Instant Premix Powder A Review of Formulations, Processing Methods, Applications, and Quality Evaluation** Philip Donald C. Sanchez, Norhashila Hashim, Mohd Salahuddin Mohd Basri, Nazamid Bin Saari,Dimas Rahadian Aji Muhammad, Joan Jane J. Sanchez **Universiti Putra Malaysia, Malaysia**	**IEICES 11-216 Design, Implementation, and Comparative Study of LORA and WSN Data Transmission for Solar Smart Streetlight Monitoring** Kenn Angelo B. Tecson, Trinity Mae A. Vanzuela, Jeffrey T. Dellosa, Edgardo Ricardo B. Sajonia Jr. **Caraga State University, Philippines**
13:46 13:54	**IEICES 11-079 Optimizing Solar Farm Locations in El Minia Governorate Using Fuzzy AHP and GIS-Remote Sensing** Mohammed Hussien Yadem Lamien, Hooman Farzaneh, Muhammad M. El Khayat. **Kyushu University, Japan.**	**IEICES 11-316 Storage Media Selection for Raspberry Pi-Based Office Application Server: A Review** Paul Michael Z. Labis, Jaymer M. Jayoma **Caraga State University, Philippines.**	**IEICES 11-202 Streamlining Cross-Departmental IT Service Management Support with KUDOS (Keystream, User Centric, Delivery Optimization and Support)** Jesterlyn Q. Timosan, John Michael Cutamora, Nicole Mae A. Rosco, Jhenny P. Sulicar, Collin Claudette M. Tepan **Caraga State University - Main Campus, Philippines**
13:54 14:02	**IEICES 11-394 Toward Carbon Neutrality in Japan: The Synergistic Role of E-Governance, Green Innovation, and Institutional Quality** Shamal Chandra Karmaker, Kanchan Kumar Sen, Andrew J. Chapman, Bidyut Baran Saha. **Kyushu University, Japan**	**IEICES 11-158 Geospatial Analysis of Rice Production: Integrating Precision Mapping and Waste Assessment Using Remote Sensing and GIS Technologies in Remedios T. Romualdez (RTR), Agusan del Norte** Lorie Cris S. Asube, Roland Emerito Otadoy. **Caraga State University, Philippines**	
14:02 14:10	**IEICES 11-093 A Preliminary Study on New Crescent Moon Detection Using "You Only Look Once" (YOLO)** A.L.A.M. Nasir, R. Umar, M. S. Odeh, W.N.J.W. Yussof, N.H. Sabri, A.N. Zulkeflee, A.H. Bely, E.A.Awalludin **Universiti Sultan Zainal Abidin (UniSZA), Malaysia**	**IEICES 11-181 Property and Microstructural Changes in Skipjack Tuna (Katsuwonus pelamis) Chunks during Ultrasound-assisted Osmotic Dehydration** Guillermo P. Pantuhan, Arnold R. Elepaño, Kevin F. Yaptenco, Omar F. Zubia, Katherine Ann T. Castillo-Israel. **Mindanao State University - General Santos, Philippines.**	**IEICES 11-211 Aqueous Humour Dynamics in the Anterior Chamber and Its Influence on Acute Angle-Closure Glaucoma** Zuhaila Ismail, Han Nee Yong, Yeou Jiann Lim and Maimunah Abdul Muna'aim. **Universiti Teknologi Malaysia, Malaysia**
14:10 14:18	**IEICES 11-095 Electromagnetic Radiation (EMR) Level Measurement**	**IEICES 11-246 The Ability of Endophytic Nitrogen-Fixing Bacteria**	**IEICES 11-247 Design and Evaluation of an Online Payment Monitoring System**

	And Analysis At UniSZA Gong Badak Residential College For Health Concern Nazifah Abdullah, Nur Masuriawati Senafi, Mohd Hafizuddin Mohd Adib, Roslan Umar, **Nor Hazmin Sabri,** SitiNur Dianah Abdul Rahman and Roha Tukimin. **Universiti Malaysia Terengganu, Malaysia**	**and Azolla pinnata in Alleviating Salinity Stress on Rice Seedling** **Mieke Rochimi Setiawati**, Pujawati Suryatmana, Reginawanti Hindersah. **Agriculture Faculty, Universitas Padjadjaran, Indonesia**	**for Student Boarding Houses Near a University Campus in the Philippines** **Riah E. Encarnacion, DIT,** Francis Andrew G. Laulita, Hazel Joyce B. Cruiz Joseph Lucilo E. Quinte. **Caraga State University, Philippines**
14:18 14:26	**IEICES 11-155 Metabolite Profiling and Anti-Inflammatory Screening of Ganoderma boninense from Three Malaysian Regions Using LC-MS/MS-Based Molecular Networking** Nur Hidayah Mohd Noor, **Nadiah Mad Nasir**, Pavithren Devakrishnan, Mohd Rizuan Zainal Abidin **Universiti Putra Malaysia, Malaysia**	**IEICES 11-255 Estimation Of Water Balance for Rice (Oryza Sativa NSIC Rc160) at Different Growth Stages Using FAO CROPWAT 8.0 Model in Butuan City, Agusan del Norte, Philippines** **Sajonia, Anamarie P.,** Aclan, Jushua V., Montero, Elma N., Sajonia, Edgardo Ricardo Jr B. **Caraga State University, Philippines**	**IEICES 11-304 A Mathematical Solution for Mixed Convection MHD Casson fluid Passing Through an Infinite Inclined Plate** Nur Fatihah Mod Omar, Zulkhibri Ismail, Rahimah Jusoh, Husna Izzati Osman, **Ahmad Qushairi Mohamad**. **UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH, MALAYSIA.**
14:26 14:34	**IEICES 11-310 Preliminary Correlation Analysis of Volcano Morphology and Landslide Morphometry of the 2019 Cotabato Earthquake Series, Mindanao, Philippines** **Nichole Anthony D. Pacle**, Karl Malcolm N. Cordova, Ken Adrian C. Villarias, Loyd John M. Gonzales,Jay Melvin B. Segales, Paolo S. Pacaldo, Renz Kian A. Caballero, Jhon Rey A. Dela Cruz, Loreniel E.Anonuevo, Jayrold P. Arcede. **Caraga State University, Philippines**	**IEICES 11-279 Ripeness-Dependent Variation in Phenolic, Flavonoid Content, and Antioxidant Activity of Plantain (Musa paradisiaca 'ABB') Peel Extracts Using Single and Mixed Solvent Systems** **Ekrima Astari,** Gladys Ayu Paramita Kusumah Wardhani, Agus Taufiq **Nusa Bangsa University/ Kyushu University, Indonesia/ Japan**	**IEICES 11-347 Fuel Consumption Prediction Using Bayesian Neural Networks** **Syarifah Diana Permai**, Jurike V Moniaga, Zener Sukra Lie, Ferry Jie **Bina Nusantara University, Indonesia.**
14:34 14:42	**IEICES 11-250 Topology Optimization and Structural Analysis of a 3D-Printed PETG Hand Orthosis for Upper Limb Support** Syahmie Arif Farhan Husariman, Mohammad Azeeb Mazlan, **Abdul Halim Abdullah.** **Universiti Teknologi MARA, Malaysia.**		**IEICES 11-351 Increasing the Computational Power of n-th Order Limit Languages up to Context-Sensitive Language through Grammar Modifications** Siti Hajar Mohd Khairuddin, **Muhammad Azrin Ahmad,** Kavikumar Jacob, Mohd Sham Mohamad. **Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia.**
14:42 14:50		**IEICES 11-313 Valorization of watermelon (Citrullus lanatus) rind as a substrate for vinegar production** **Neil Caesar M. Tado**, Joliana Mae Salientes. **Caraga State University, Philippines**	**IEICES 11-372 SYMH Index Prediction with Neural Basis Expansion Analysis for Time Series (N-BEATS)** Nur Dalila Khirul Ashar, **Syamsiah Mashohor**, Aduwati Sali, Mohamad Huzaimy Jusoh, Mohammad Habib Shah Ershad Mohd Azrul, Akimasa Yoshikawa, Zatul Iffah Abdul Latiff **UNIVERSITI PUTRA MALAYSIA, MALAYSIA.**
14:50 14:58	**IEICES 11-198 Enhancing VADER Sentiment Analysis Through Lexicon Expansion with BERT Word Embeddings** Fritzie T. Nuñez, Nerissa L. Baradillo, **Cristopher C. Abalorio** **Caraga State University, Philippines.**	**IEICES 11-398 Silicon Nanoparticles by the Pulsed Plasma in Liquid Method and Their Effect in Grain Products Growth** **Altynai Abdirashit kyzy,** Xu Wei, Takuro Niidome, Emil Omurzak. **Kyushu University, Japan.**	**IEICES 11-010 Effects of Different Biomass Waste Applications on Carbon Dioxide (CO2) Emission Rates in Clay Loam Soil** **Arsenio D. Bulfa**, Jr, Teodora A. Cubelo, Jose Edwin C. Cubelo. **Silliman University, Philippines**
14:58 15:06	**IEICES 11-371 High-Resolution Gridded Population Mapping from Google Open Building Footprints for Spatial Analysis Applications.**	**IEICES 11-098 Catalytic Effect of AlTiNiCoCr High-Entropy Alloy on Hydrogen Storage Properties of Pure Mg** **Naser Einollahi,** Song-Jeng Huang, Sathiyalingam Kannaiyan.	**IEICES 11-125 Heat Transfer of Magnetohydrodynamic Generalized Power Law Blood Flow with Gold-Nanoparticles in a Stenosed Artery**

	Japheth Lloyd Estrada, Archie G. Bolastig, **Meriam Makinano-Santillan**, Jojene R. Santillan **Caraga State University, Philippines**	**National Taiwan University of Science and Technology (NTUST), Taiwan.**	**Kannigah a/p Thirunanasambantham,** Zuhaila Ismail, Lim Yeou Jiann, Amnani Shamjuddin. **Universiti Teknologi Malaysia, Malaysia**
15:06-15:30	Break		

Session 6

Venue	3rd floor C-cube building
15:30 -16:30	**Poster session**

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

Session 7

Venue	C-Cube Chikushi Hall	G-Building, Room 206	G-Buiding, WEEL Room 310
Session Chair *Co-chair*	*Okendo Otieno* *Mohammed Lamien*	*Mohamed omar.* *He Xiaoran*	*Oraby Ahmed* *Muhammed Fatimah Zahrau*
16:35 16:43	**IEICES 11-159 Alveolar Ridge Reconstruction Using Autologous Tooth Graft: Insights from a Malaysian Case of Anterior Maxillary Trauma** Zulkefli Mohd Idros, Mohamad Ikhwan Jamaludin, Mohamad Ikhwan Kori, Muhammad Faiz Md Shakhih, Muhammad Izzuddin Abd Samad, **Muhammad Hanif Ramlee** **Department of Biomedical Engineering and Health Sciences, Universiti Teknologi Malaysia (UTM), Malaysia.**	**IEICES 11-071 Evaluating the Potential of Corn (Zea mays) Stalk Sugar as an Alternative Supplement on Yield and Growth Performance of Oyster Mushroom (Pleurotus ostreatus)** **Philip Donald C. Sanchez**, Blessy C. Cuesta, Julieanne V. Banguis, Joan Jane J. Sanchez. **Caraga State University, Philippines**	**IEICES 11-021 Multi-criteria Decision Analysis (MCDA) and GIS-assisted Suitability Evaluation for Corn (Zea mays L.) Production in Negros Oriental, Philippines** **Arsenio Jr. D. Bulfa**, Marcial S. Buladaco II & Eureka Teresa M. Ocampo. **Silliman University, Silliman University/Philippines.**
16:43 16:51	**IEICES 11-160 Differences between Intermittent Pneumatic Compression and Dynamic Warm-Up on Leg Muscle Strength in Young Healthy Adults** Hammad Haziq Ismail, Sarah Syafieqah Anuewar, Dzulhafiz Zikrie Zulkapli, Syazrena Zainudin, Siti Nurul Ezzah Che Man, Nuramnani Sufiyya Rohim@Rahim,Nur Shahid Mohd Pozi, Nurul Ain Syazwani Zulkarnain@Ismail, Nurariqah Nazihah Alham, Norshahizah Halidi, Norasruudin Sulaiman, Shariman Ismadi Ismail, **Rahmat Adnan** **Faculty of Sports Science and Recreation, Universiti Teknologi MARA, Malaysia.**	**IEICES 11-403 Recent Advances in Adsorbent Materials for Hexavalent Chromium Removal from Aqueous Solutions** Nour S. Abdelrahman, **Wu Qingyu**, Osama Eljamal, Faisal AlMarzooqi. **Khalifa University of Science and Technology, UAE**	
16:51 16:59		**IEICES 11-369 Hydrokinetic Turbine for Home Power** Devin Babu, **Muhamad Ridzuan Radin** Muhamad Amin, Ahmad Shahir Jamaluddin, Syukran Hakim Norazman, Abdul Nasir Abd. Ghafar. **Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia**	**IEICES 11-360 Frequency Allocation for Radio Astronomy in the L-Band: Implications for Spectrum Management and Spectra Analysis in Malaysia** Ahmad Hariz Bely, Sharifah Nurul Aisyah Syed Zafar, **Roslan Umar**, Nor Hazmin Sabri, Zamri Zainal Abidin,Nur Zulaikha

			Mohd Afandi, Liheng Yang, Jazeel H. Azeez, Basree Maseng **Universiti Sultan Zainal Abidin, Malaysia**
16:59 17:07	**IEICES 11-336 Electromyograph (EMG) Analysis of personalised 3D-Printed Auxetic and Conventional Mesh Insoles for Pes Planus Individual: A Pilot Study** Nurul Natasha Kamaruzaman, **Muhammad Faiz Md Shakhih,** Mohamad Ikhwan Kori, Muhammad Hanif Ramlee, Siti Ruzita Mahmod, Mohamad Ikhwan Jamaludin, Asnida Abdul Wahab. **Universiti Teknologi Malaysia, Malaysia.**	**IEICES 11-231 Phosphonium-Based Ionic Liquids for Efficient Extraction of Heavy Metals from Mine Tailings** **Temmy Pegarro Vales**, Rhosa Veca Deguiño, Haydee Jean Laguesma, Jeanne Phyre Lagare-Oracion, Brigette Y. Orog, Felmer S. Latayada, Vannie Joy T. Resabal, Arnold C. Alguno, Richard Alloro, and Rey Y. Capangpangan. **Caraga State University, Philippines.**	
17:07 17:15	**IEICES 11-068 Survey and Detection of Banana Bunchy Top Virus (BBTV) in Abaca (Musa textilis Nee) on Major Abaca Farms in the Caraga Region, Philippines** **Elizabeth P. Parac,** Gerald N. Genita, Joanne A. Langres, Jezmeir Rey Porras **Caraga State University, Philippines**	**IEICES 11-402 DFT Insights into nZVI Reactivity for Environmental Remediation: A Mini Review** **Sun Zhaochen,** Feng Xuening, Osama Eljamal. **Kyushu University, Japan.**	**IEICES 11-214 Hydrokinetic Resource Assessment in the Davao River: Integrating Flow Duration Curve with HEC-RAS 1D Model** **Ken P. Cosares,** Renyl B. Barroca, Vincent Noe L. Gimagan, Althea Alexa M. Bentayao. **Ateneo de Davao University, Philippines.**
17:15 17:23	**IEICES 11-377 The Effectiveness of Robot-Assisted Interventions for Children with Autism Spectrum Disorder: A Literature Review** **Qistina Balqis Zaidi,** Asnida Abdul Wahab, Muhamamd Faiz Md Shakhih, Anas Mohd Noor **Universiti Teknologi Malaysia, Malaysia**	**IEICES 11-278 Ferrohydrodynamic Flow of Hybrid Magnetised Fluid with Magnetic Field-Dependent Viscosity over Extending Plate** Nur Ilyana Kamis, **Noraihan Afiqah Rawi,** Lim Yeou Jiann, Sharidan Shafie. **Universiti Teknologi Malaysia, Malaysia**.	**IEICES 11-318 AI in Philippine Nursing Education: Exploring Chatbot Use for Pharmacology Instruction** **Carolyn F. Salazar,** Katherine C. Villaran, MAN, Arvin Kim A. Arnilla, Ph.D. **AKLAN STATE UNIVERSITY, PHILIPPINES**
17:23 17:31	**IEICES 11-063 Assessment of Temporary Spacer Design for Knee Arthroplasty Through Finite Element Analysis.** Muhammad Farhanka Thariq, Qhairun Sofea Mohd Zairadi, **Mohamad Ikhwan Kori** , Muhammad Faiz Md Shakhih , Muhammad Hanif Ramlee, Mohamad Ikhwan Jamaludin. **Universiti Teknologi Malaysia, Malaysia.**	**IEICES 11-400 A Review on Polymer/Nanodiamond Composites: Fabrication methods and applications** **Heba M. Elsayed,** Abdelrahman Zkria. **Kyushu University, Japan.**	**IEICES 11-392 Sentiment Analysis of Noisy Malay Text using a Large Language Model** Khairul Imran Khalip, Ku Muhammad Naim Ku Khalif, **Mohd Khairul Bazli Mohd Aziz**, Alexander Gegov **Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia**
17:31 17:39	**IEICES 11-184 Seismic Fragility Assessment of Hiraya Building Using Fragility Curves** **Sicenio D. Abera Jr.,** Fanny Joymae P. Arecayos, Noreen R. Macapili, Michael B. Baylon **Caraga State University, Philippines**	**IEICES 11-243 COMPARISON OF SHOCK ABSORBENCY ON ARTIFICIAL AND NATURAL SOCCER PLAYING SURFACES USING TWO IMPACT TEST ANALYSIS APPROACHES** Muhammad Shaleh Mazuki, **Shariman Ismadi Ismail,** Norasrudin Sulaiman, Rahmat Adnan, Hiroyuki Nunome, Filip Gertz Lysdal, Motohide Arayama, and Mohamad Nizam Nazarudin. **Universiti Teknologi MARA, Shah Alam, MALAYSIA**	**IEICES 11-356 Physico-chemical and Sensory Evaluation of Ice Cream Enhanced with Spray-Dried Papaya (Carica papaya L.) Powder** **Neil Caesar M. Tado,** Phoebe Marie L. Calo, Cristy R. Oquindo, Genesis Jared A. Cutamora. **Caraga State University, Philippines.**
17:39 17:47		**IEICES 11-138 A Strategic Framework for Quality and Sustainability Integration in High-Rise Construction:**	**IEICES 11-228 Enhancing Duplicate Question Detection with RoBERTa**

		A Structural Equation Modeling Approach J. Berlin P. Juanzon, Arnold B. Mendoza, Vien Carlo M. Amora, **Rodelle C. Lavarias**. **Pamantasan ng Lungsod ng Maynila (University of the City of Manila), Philippines**	**Cross-Encoders and Explicit Features: A Hybrid Approach** Jhon Dave C. Bohol, Diana J. Gonzales, **Roland P. Abao, Cristopher C. Abalorio** **Caraga State University, Philippines.**
17:47 18:00	Closing Remarks & Best Presentation certificates		

List of posters

Oct.30th (Thursday, 15:10 -16:10), 3rd floor C-cube building

Poster 1 **IEICES 11-332**	**Sediment Transport Analysis in Manoligao Watershed, Cagdianao, Dinagat Islands, Philippines** Jermelyn C. Laroa, Chrester Lou R. Ocay, Yvonne T. Olayvar, Arnaldo C. Gagula, Nichole Anthony D. Pacle Caraga State University, Philippines.
Poster 2 **IEICES 11-012**	**Effects of Ultrasonic Treatment on Germination, Seedling Growth, and Root-to-Shoot Ratio in Guava (Psidium guajava L.) Seeds** Jack C. Silva, Zeus Rayjan T. Cabus, Rehel A. Diaz, Jose Edwin C. Cubelo[1], Arsenio D. Bulfa, Jr. Silliman University College of Agriculture, Bantayan, Philippines.
Poster 3 **IEICES 11-013**	**Enhancing Germination, Growth, and Vigor of Upland Kangkong Seeds through Ultrasonic Treatment** Emilio B. Jacinto II, Owen Lloyd A. Dumago, Reiki Elijah L. Varquez, Rehel A. Diaz, Jose Edwin C. Cubelo, Arsenio D. Bulfa Jr. Silliman University College of Agriculture, Bantayan, Dumaguete City, Negros Oriental 6200, Philippines.
Poster 5 **IEICES 11-035**	**Laboratory Soil Classification and Analysis of Index Soil Properties of a Site in San Juan City, Philippines** Kevin C. Tan, Patrick Matthew T. Chua, Rongxuan Hou, Joenel G. Galupino, Erica Elice S. Uy, Jomari Tan, Rainier Lawrence Valdez, Daniel Valerio Senior High School Student, De La Salle University, Manila, Philippines.
Poster 6 **IEICES 11-036**	**Comparative Analysis of Sustainable Materials in Construction using PRISMA Method** Joaquin Alexis Acosta, Emmanuel Macalalad, Aizen Po, Danielle Nathan Yang, Joenel Galupino, Irene Ubay-Anongphouth, Daniel Valerio, Rainier Lawrence Valdez, Cielo Frianeza. De La Salle University, Philippine.
Poster 7 **IEICES 11-040**	**SUPERVISED PREDICTION MODEL IN MONITORING TRANSFORMER HEALTH INDEX** Nazrul Fariq Makmor, Afzan Zamzamir, Ja'afar Adnan, Azharudin Mokhtarruddin, Mohd Salman Mohd Sabri, Yulni Januar Faculty of Engineering, National Defence University of Malaysia.
Poster 8 **IEICES 11-043**	**Research Trends in the Use of Eggshell Powder for Soil Stabilization: A Review-Based Analysis** Zachary Job Yuipco, Justine Buenaseda, Jheram Gabriel de Borja, Melrose Oriel, Joenel Galupino[1], Irene Olivia Ubay-Anongphouth Department of Civil Engineering, De La Salle University, Philippines.
Poster 9 **IEICES 11-044**	**A Hypothetical Community-Based Green Space Model for Barangay 20 and Barangay 275 in the Pasig River Port Area** Carlos Mariano, Mickael Cucio, Mikaela Guerra, Megan Bagtasa, Cielo Frianeza, Joenel Galupino, Irene Ubay-Anongphouth, Lawrence Valdez, Daniel Valerio. Department of Science, Technology, Engineering, and Mathematics, De La Salle University, Philippines.
Poster 10 **IEICES 11-045**	**Emerging Microstructural Insights in Soil Stabilization: SEM and EDX Applications in Geotechnical Engineering** Justine Buenaseda, Jheram Gabriel de Borja, Job Yuipco, Melrose Oriel, Irene Olivia Ubay-Anongphouth, Joenel Galupino [1]De La Salle University, Philippines.
Poster 11 **IEICES 11-046**	**Trends in The Ongoing Research Regarding The Role of Xanthan Gum in Sustainable Geotechnical Engineering** Rongxuan Hou, Patrick Matthew T. Chua, Kevin Cosing Tan, Joenel Galupino, Erica Elice Uy, Jomari Tan, Rainier Lawrence Valdez, Daniel Valerio. De La Salle University, Manila, Philippines.
Poster 12 **IEICES 11-047**	**A Comprehensive Mapping and Assessment of the Evolution of River Rehabilitation Research** Mickael Cucio, Megan Bagtasa, Mikaela Guerra, Carlos Mariano, Cielo Frianeza, Joenel Galupino, Rainier Ubay-Anongpouth, Lawrence Valdez, Daniel Valerio. Department of Science, Technology, Engineering, and Mathematics, De La Salle University, Philippines.
Poster 13 **IEICES 11-048**	**A Thematic Review of Seismic-Induced Slope Instability and Road Robustness Research in the Philippines** Joseph Benjamin Canayon, Ricalyn Nebrida, Joben Manuel Octavo, Neil Patrick Portales, Joenel Galupino, Cris Angelo Fernandez -De La Salle University, Philippines.
Poster 14 **IEICES 11-051**	**Application of the Analytical Hierarchy Process in Selecting Natural Fibers for Limited-Life Geosynthetics**

	Arianne Suzane T. Ang, Sophia Monique O. Chan, Coleen Annika T. Paterno, Erica Elice S. Uy, Joenel G. Galupino, Daniel Nichol Valerio, Rainier Lawrence Valdez. De La Salle University, Manila, Philippines.
Poster 15 **IEICES 11-052**	**A Water Quality Analysis of the Pasig River in Manila City, Philippines** Megan Bagtasa, Mickael Cucio, Mikaela Guerra, Carlos Mariano, Cielo Frianeza, Joenel Galupino, Irene Ubay-Anongphouth, Rainier Valdez, Daniel Valerio. Department of Science, Technology, Engineering, and Mathematics, De La Salle University.
Poster 16 **IEICES 11-053**	**Design and Slope Stability Assessment of a Proposed Sanitary Landfill in the Philippines** Joben Manuel Octavo, Joenel Galupino, Miller Cutora, Joseph Benjamin Canayon, Ricalyn Nebrida, Neil Patrick Portales, Monical Azalea Quimson. De La Salle University, Philippines.
Poster 17 **IEICES 11-223**	**Forecasting Pavement Deterioration and Optimizing Maintenance Strategies under Budget Constraints: A Markov Chain and Economic Evaluation of Caraga's Road Network.** Lynel Jim A. Malicdem, Joel G. Opon. College of Engineering, Mindanao State University, Philippines
Poster 18 **IEICES 11-056**	**Characterization of Index Properties of Biochar made from Rice Hull for Permeability Test** Joshua Talento, Jan Andrei Olayon, Alexandra Gaile Samson, Jaime Salvador Clamor, Joenel Galupino, Irene Olivia Ubay-Anongphouth Department of Civil Engineering, Gokongwei College of Engineering, De La Salle University, Philippines.
Poster 19 **IEICES 11-057**	**ECG SIGNAL DENOISE USING WAVELET ADAPTIVE FILTER** Nur Izzani Mat Rozi, Siti Noormiza Makhtar, Fakroul Ridzuan Hashim, Shazreen Shaharuddin, Maizatullifah Miskan Faculty of Engineering, National Defence University of Malaysia.
Poster 20 **IEICES 11-397**	**Stability of Cooperation in Reciprocal Asymmetric Structured Population** Khadija Khatun, Shen Chenand Jun Tanimoto. Kyushu University, Japan
Poster 21 **IEICES 11-059**	**Characterization of Index Properties of Coarse-Grained Alluvial Soils for Permeability Test** Jan Andrei Olayon, Joshua Talento, Alexandra Gaile Samson, Jaime Salvador Clamor, Joenel Galupino, Irene Olivia Ubay-Anongphouth Department of Civil Engineering, Gokongwei College of Engineering, De La Salle University.
Poster 22 **IEICES 11-060**	**Characterization of Index Properties of Low Plasticity Clay for Permeability Test** Alexandra Gaile Samson, Jan Andrei Olayon, Joshua Talento, Jaime Salvador Clamor, Joenel Galupino, Irene Olivia Ubay-Anongphouth Department of Civil Engineering, Gokongwei College of Engineering, De La Salle University, Philippines.
Poster 23 **IEICES 11-062**	**Estimation of Strength Envelope of Rocks in the Athens Schist Formation** Neil Patrick Portales, Joseph Benjamin Canayon, Ricalyn Nebrida, Joben Manuel Octavo, Erica Elice Uy, Joenel Galupino. De La Salle University, Philippines.

Poster 26 **IEICES 11- 087**	**Postharvest Inactivation of Yeast and Mold in Red Onion (Allium cepa L.) using Ultrasound Treatment** Wilfredo H. Canania Jr., Rina A. Bawar, Kevin F. Yaptenco, Jelynne P. Tamayo, Alfredo Fortu Jr. University of the Philippines, Philippines
Poster 27 **IEICES 11-088**	**Comparative Assessment of Zenithal and Horizontal Sky Brightness Profiles for Light Pollution Monitoring: Case Study at KUSZA Observatory and Langkawi National Observatory** Ahmad Hariz Bely, Roslan Umar, Nor Hazmin Sabri[2], Hilman Shahmeer Mohamed Azmi, Ahmad Lutfi Afifi Mohd Nasir, Sharifah Nurul Aisyah Syed Zafar, Emma Zulaiha Zulkifli, Amirul Akmal Redzuan, Hanim Munirah Mohamad Suhaimi, Khairatul Najah Rafie, Arwin Juli Rakhmadi, Musa Garba Abdullahi. East Coast Environmental Research Institute, Universiti Sultan Zainal Abidin, Terengganu, Malaysia.
Poster 28 **IEICES 11-100**	**Web-based Portfolio Management System for Technology Transfer and Licensing Offices** Edsel Matt O. Morales, Kurt Ryam Abadinas, Meo Angelo Alcantara, Shienae Cedro College of Computing and Information Sciences, Caraga State University, Philippines.
Poster 29 **IEICES 11-101**	**Noncontact Coil-Type Textile Sensor for Monitoring Cerebral Blood Flow Signals** Jinhee Yang, Hyunseung Cho Institute of Symbiotic Life-TECH, Yonsei University.

Poster 30 **IEICES 11-104**	**Forecasting of Tropical Climate Using Integration on Mann Kendall Test and ARIMA Model** Ismafatin Nabilah Ismail, Mohd Khairul Amri Kamarudin, Siti Nur Fazillah Abdullah, Firdaus Mohamad Hamzah, Ferizone, Sunardi Sunardi. East Coast Environmental Research Institute, Universiti Sultan Zainal Abidin, Malaysia.
Poster 31 **IEICES 11-396**	**An Eco-Friendly Waste Management Solution for Economic Growth: A Novel Approach for Production of Rice Husk Particle Board** Sani, S. A., Bello, I. H., Mohammed, A., Muhammed Fatimah Zahrau Kyushu University Japan.
Poster 32 **IEICES 11-106**	**Mitigating Accuracy Loss in Plant Disease Detection: A Comparative Study of Multi-Stage Hybrid Classification Frameworks for Field Conditions** Ivan Chad T. Quilondrino, George V. Patan, Joanna Victoria S. Pitao, Caraga State University.
Poster 34 **IEICES 11-111**	**Utilization and Characterization of the Cellulose Nanocrystalline Derived from Durian (Durio zibethinus) Husk as Potential Packaging Material** Patricia May N. Botecario, Rhea Abegail J. Gamay, Philip Donald C. Sanchez, Joan Jane J. Sanchez[1,2], and Temmy P. Vales. Department of Agricultural & Biosystems Engineering, College of Engineering & Geosciences, Caraga State University, Philippines.
Poster 35 **IEICES 11-113**	**Wi-Fi Network Intrusion Detecting using Multi-Layer Stacking Ensemble Learners** Jomari R. Edulan, Niel Sean Mikhael M. Gildo, Regien B. Nakazato. Department of Computer Science, Caraga State University, Butuan City, Philippines
Poster 36 **IEICES 11-114**	**Fake News Detection Using Textual Features: A Performance Comparison of Feature Selection Approaches and Machine Learning Models** Jhune Eleazar P. Camatura, Shane D. Cale, Takeyasu V. Nakazato, Regien B. Nakazato. Department of Computer Science, College of Computing and Information Sciences, Caraga State University, Butuan City, Philippines.
Poster 37 **IEICES 11-115**	**Physics-Based Simulation of Seismic Collapse in Heritage Masonry Churches of Bohol, Philippines** Reymarvelos M. Oros, Joel G. Opon. [1]Center for Structural Engineering and Informatics, MSU – Iligan Institute of Technology, Iligan City.
Poster 38 **IEICES 11-118**	**Socio-Economic and Physical Impact Assessment of Farm-to-Market Roads in the Province of Dinagat Islands, Philippines** Hannah Lyne C. Chua, Khryss Lyekah S. Campos, Eldie R. Labisto College of Engineering and Geosciences, Caraga State University, Philippines.
Poster 39 **IEICES 11-119**	**Interpretability of XGBoost in Imbalanced Seismic Performance Classification of Reinforced Concrete Buildings Using Resampling Techniques** Ryan James S. Olivo, Joel G. Opon Center for Structural Engineering and Informatics, MSU – Iligan Institute of Technology, Iligan City.
Poster 40 **IEICES 11-121**	**Mini Review: Advances, Challenges, and Future Directions for Lipid Nanoparticles and Vesicular Nanoparticles as Emerging Nanocarrier Systems for Enhanced Drug Delivery** Fatin Farhana Baharuddin, Nadiah Mad Nasir, Pavithren Devakrishnan Department of Chemistry, Faculty of Science, Universiti Putra Malaysia, Serdang, Selangor, Malaysia.
Poster 41 **IEICES 11-122**	**Pharmacological Diversity of Xanthone Derivatives: A Mini Review of Their Antibacterial Properties Against Common Human Pathogenic Bacteria** Pavithren Devakrishnan, Nadiah Mad Nasir, Fatin Farhana Baharuddin Department of Chemistry, Faculty of Sciences, University Putra Malaysia, Serdang, Malaysia.
Poster 42 **IEICES 11-123**	**Trend Analysis of Various Hydrometeorological Parameters of Magat River Basin and Reservoir in Isabela, Philippines** Melanie A. Baguio and Roger A. Luyun, Jr. College of Engineering, Isabela State University – Echague Campus, Echague, Philippines.
Poster 43 **IEICES 11-130**	**Optimizing Bulletproof Natural Fiber-Reinforced Polymer Composite Materials Using a Hybrid Computational Simulation and Machine Learning Approach** Eisenhower D. Aldemita II, Paul Rossener R. Regonia, Eduardo R. Magdaluyo Jr. Department of Computer Science, University of the Philippines Diliman, Quezon City, Philippines.
Poster 44 **IEICES 11-132**	**Comparative Finite Element Analysis of 1D and 3D Bamboo Beam Models under Four-Point Bending** Nurwin Adam G. Muhammad, Jerson N. Orejudos, Mary Joanne C. Aniñon

	Department of Civil Engineering, College of Engineering and Technology, Philippines.
Poster 45 **IEICES 11-133**	**Performance Optimization and Design Improvements of a Sago (Metroxylon sagu) Pith Extractor for Small Scale Application: A Comparative Evaluation of Efficiency and Capacity** Cindy May C. Belivestre, Earl Anthony P. Delfin, Jan Manuel S. Sumando. Caraga State University, Philippines .
Poster 46 **IEICES 11-137**	**Kinetic Modeling and Shelf Life Prediction of Lanzones (Lansium domesticum Correa) Based on Packaging and Storage Temperature.** Nabil D. Sultan, Ma. Cristine Concepcion D. Ignacio, Ma. Camille G. Acabal, Floirendo P. Flores. University of the Philippines Los Baños, College, Philippines.
Poster 47 **IEICES 11-144**	**Adsorptive Removal of Heavy Metals in Wastewater using Soy-Pulp Derived Activated Carbon Synthesized via Various Pyrolysis Techniques** John Kevin I. Macavinta, Carolyn F. Salazar. College of Arts and Sciences, Aklan State University, Philippines.
Poster 48 **IEICES 11-145**	**Fabrication and Characterization of Polyolefin Filaments for Fused Filament Fabrication** M. Amirulhusni M.Fadzir, Anika Zafiah M. Rus, Yazid Saif1, M. Akmal Abd Rabbi, M. Ibrahim, M. Zulfadzli Md Zahri. Universiti Tun Hussein Onn Malaysia Fakulti Kejuruteraan Mekanikal dan Pembuatan, Malaysia.
Poster 49 **IEICES 11-146**	**Efficient Mesh Simplification Using Variational Shape Approximation via Quadric Error Metrics in Open3d for Embedded Systems** James Earl Cubillas, Mike Andre Puspus, Mike Leoford Goyo Caraga State University, Philippines.
Poster 50 **IEICES 11-152**	**Design and Modification of a Chiller Device for Quality Preservation of Coconut (Cocos nucifera) Inflorescence Sap** Ronald T. Loon, Adrian Kint U. Nobillos, Juven G. Luzorata Caraga State University, Philippines.
Poster 51 **IEICES 11-163**	**STUDENT'S PERCEPTION TOWARDS BLENDED LEARNING IN APPLIED EXERCISE REHABILITATION COURSE BETWEEN FACULTY OF SPORTS SCIENCE STUDENTS IN UNIVERSITI TEKNOLOGI MARA (UiTM) SHAH ALAM AND SEREMBAN 3 CAMPUS** Sarah Syafieqah Anuwar, Nuramnani Suffiya Rohim@Rahim, Hammad Haziq Ismail, Siti Nurul Ezzah Che Man, Dzulhafiz Zikrie Dzulkapli, Syazrena Zainudin, Muhammad Nur Syahid Mohd Pozi, Nurariqah Nazihah Alham, Nurul Ain Syazwani Zulkarnan@Ismail, Norshahizah Halidi, Shariman Ismadi Ismail, Norasrudin Sulaiman[1], Rahmat Adnan. Faculty of Sports Science and Recreation, Universiti Teknologi MARA, Shah Alam, MALAYSIA.
Poster 52 **IEICES 11-367**	**Evaluation of Existing Horseshoes and Design Alternatives for Horses Employed in Horse-Drawn Carriages (Tartanilla) for Cebu City, Philippines** Ray H. Malonjao, Juvy B. Malonjao, Mary Ellen C. Camarillo, Adrian P. Ybañez. Cebu Technological University.
Poster 53 **IEICES 11-167**	**Assessment on the Potential of Tabon-tabon (Atuna racemosa) as a Natural Food Preservative Through Drying and Direct Application for Improved Shelf Life of Pork** Angel Casey B. Cervantes, Kevin Jay G. Arman Engr. May Rose B. Osoteo College of Engineering and Geosciences, Caraga State University, Ampayon, Butuan City 8600, Philippines.
Poster 54 **IEICES 11-169**	**Developing a Structured and Context-Sensitive Walkability Indicator Framework for Philippine Urban Streets** Czarlon Jade Lactuan, Joel G. Opon Center for Structural Engineering and Informatics, MSU – Iligan Institute of Technology, Iligan City
Poster 55 **IEICES 11-171**	**Mechanical Design and Performance Evaluation of a Small-Scale Piston-Type Briquetting Machine for Sustainable Densification of Corn Stalk Residues** Godfrey Jan B. Bailo, Cindy May C. Belivestre, Edwin Jhon H. Baling, Ian P. Vasquez. Center for Resource Assessment, Analytics, and Emerging Technologies, Caraga State University, Philippines.
Poster 56 **IEICES 11-173**	**Mechanical Property Enhancement of Polypropylene Through Sustainable Epoxy Doping Employing Advanced Additive Manufacturing Technique** M. Akmal Abd Rabbi, Anika Zafiah M. Rus, M. Amirulhusni M. Fadzir, M. Ibrahim, M. Zulfadzli Md Zahr, Yazid Saif. Engineering Universiti Tun Hussein Onn Malaysia.
Poster 57 **IEICES 11-291**	**Automatic Rice Seed Varietal Purity Testing Machine Using Artificial Intelligence and Automation** Ronieto N. Mendoza, Ronie L. Naquila, Jr, Jay Marie M. Bangga. Caraga State University, Philippines

Poster 59 **IEICES 11-185**	**Evaluating the Proposed Hybrid Whale Optimization Algorithm - Genetic Algorithm (WOA-GA) for Software Fault Prediction** Joanna Victoria S. Pitao, Junrie B. Matias Caraga State Univertisty-Butuan City, Philippines.
Poster 60 **IEICES 11-188**	**Strength Development Assessment Of Banana Leaf Ash and Lime Mixture in Clayey Sand Soils** Henri Haggai Y. Cua, Julianne Carissa C. Ferrer, Kyle Vincent T. Go, Eddryck Benjamin C. Yao, Irene Olivia Ubay-Anongphouth De La Salle University, Philippines.
Poster 61 **IEICES 11-190**	**AttendEase: Geolocation-based Mobile Application for Attendance Management** Orlando Caesar M. Donesa, Joanie Butron, Czarina M. Aplan, Elbert S. Moyon College of Computing and Information Sciences, Caraga State University.
Poster 62 **IEICES 11-191**	**Design and Development of a Web-Based Campus Vehicle Gate Pass Management System with OCR Document Verification for Caraga State University** Elizabeth B. Palasan, Harrold T. Chavit, Elbert S. Moyon. Caraga State University**.**
Poster 63 **IEICES 11-192**	**Development of Complaint Management and Tracking System using React Native and Firebase.** Aaron D. Alamo, John Carlo M. Elustre, Richard E. Cubillas, Elbert S. Moyon, Giovanni T. Esma. Caraga State University
Poster 64 **IEICES 11-193**	**Simulating and Predicting Sediment Yield Responses to Land Use Land Cover (LULC) Changes at a Mining Site, Utilizing Geographic Information System (GIS) and Soil and Water Assessment Tool (SWAT)** Joan Jane J. Sanchez, Romell A. Seronay, Blessel Grace C. Acog, Lealin Mari D. Perral, Michelle V. Japitana. Caraga State University, Philippines

Poster 66 **IEICES 11-199**	**Landslide Susceptibility Mapping using AI-driven Geospatial Analysis, Remote Sensing and Geophysical Validation: A Case Study of the Manolo Fortich Hydro Power Plant** Glimpse Bagayas, Joel Opon Center for Structural Engineering and Informatics.
Poster 67 **IEICES 11-200**	**Design and Development of RF Propagation Map and Antenna Coverage Map for Optimal Placement of Paging System in Caraga State University (CSU) – Main Campus** Jude Erik S. Bayron, Ritchie Laurence A. Goce, Alfred Dennis B. Balamad, Lovely Mae D. Balamad. Caraga State University, Philippines.
Poster 68 **IEICES 11-205**	**Experimental Investigation of Musa textilis Nee (Abaca) Textile-Reinforced Mortar as a Strengthening Material of Concrete Elements** Earl Gerald Gregorio, Ephraim De Gracia, Julius Leaño Jr., Andres Winston Oreta, Jason Maximino Ongpeng. De La Salle University, Manila, Philippines.
Poster 69 **IEICES 11-212**	**Mine Wastewater Bioremediation and Bioelectricity Generation Potential of a Microbial Fuel Cell Utilizing Bacillus licheniformis** Christen Joy D. Ague, Jessel Vernadeth C. Tadem, Gerome L. Amper, Ephraim Joy B. Beltran, Caraga State University
Poster 70 **IEICES 11-218**	**Design and Development of Computer-Based Aortic Stenosis Detector Using X-Ray Coronary Angiographic Imaging** Jovem M. Esguerra, Saintrox H. Damian, Engr. Edgardo Ricardo B. Sajonia Jr. Caraga State University.

List of posters

Oct.31th (Friday, 15:30 -16:30), 3rd floor C-cube building

Poster 71 **IEICES 11-054**	**Riparian Plants and Their Hypothetical Impacts on the Restoration and Rehabilitation of the Pasig River: A Thematic Study.** Mikaela Guerra, Megan Bagtasa, Mickael Cucio, Carlos Mariano, Cielo Frianeza, Joenel Galupino, Irene Ubay-Anongphouth, Rainier Valdez, Daniel Valerio. Department of Science, Technology, Engineering, and Mathematics, De La Salle University, Philippines.
Poster 72 **IEICES 11-224**	**GIS-Based Analysis of Spatial Distribution of Agrometeorological Stations Network in Northern and Central Luzon, Philippines** Melanie A. Baguio. College of Engineering, Isabela State University, Philippines.
Poster 73 **IEICES 11-232**	**Development and Performance Evaluation of Magnesium Hydroxide Coatings Derived from "Natural" Seawater** Andrea Joy D. Abergas, Jozette Nicole R. Ardiente, Ahmed Mujahib D. Ramos, Aaron Johann L. Tan, Kenneth Jae T. Elevado, Nicanor R. Roxas Jr., Cheryl Lyne C. Roxas. De La Salle University, Philippines.
Poster 74 **IEICES 11-233**	**Stroke Tomography for Enhanced Lesion Learning Analysis (STELLA.ai) Using Computer Vision** James Earl D. Cubillas, Rhea M. Bete, Francis John Saul M. Tin-ao. Caraga State University, Philippines.
Poster 75 **IEICES 11-234**	**Analysis of Grasping Force of Irregular Shapes Objects for Low-Cost 3D-Printed Prosthetic Robotic Arm** Abdul Nasir, Devin Babu, Noorazliza Sulaiman, Norain Binti Abdullah, Dhivesh Kana Universiti Malaysia Pahang Al-Sultan Abdullah, MALAYSIA.
Poster 76 **IEICES 11-236**	**Design and Development of an IoT-based Smart Monitoring Bin for Pineapples (Ananas comosus) Quality and Shelf Life** Christian T. Mapayo, Endrea Jane O. Piculados, Juven G. Luzorata. Caraga State University, Philippines.
Poster 77 **IEICES 11-241**	**Assessment of Land Use/Land Cover Change in Butuan City, Philippines: A Landscape Ecology Approach using GIS** Ephraim Joy B. Beltran. Caraga State University, Philippines
Poster 78 **IEICES 11-244**	**Mobile Community App: Developing Barangay Management Systems** ane Francis Jaictin, Jayson Dollete, Melvy Jane Orillaneda, Carl Joseph Gascon, Merrey Joy Ocon Caraga State University, Philippines.
Poster 79 **IEICES 11-249**	**EPANET Modeling for Water Distribution System Assessment in a Growing University Campus** Caryl T. Rafols, Rea Andrea M. Villamor, Stephanie Mae Salcedo-Albores, Christian Dwight C. Dolotina Caraga State University, Philippines
Poster 80 **IEICES 11-252**	**Spatio-Temporal Analysis of Land Surface Temperature in Butuan City using Landsat Satellite Images and its relationship to Land Use Land Cover Changes** Arqui Loyd A. Quimpan, Julie Rose D. Apdohan[1], Arnaldo Gagula, Jessa Marie B. Sabado. Caraga State University, Ampayon, Butuan City 8600, Philippines.
Poster 81 **IEICES 11-254**	**Bacterial Leaf Blight (BLB) Disease Detection in the Municipality of Remedios T. Romualdez, Agusan Del Norte, Philippines using Multi-Spectral Data** Clarice Angela Boncales, Aldwin Joshua Bondaog[1], Arturo G. Cauba Jr. College of Engineering and Geosciences, Caraga State University, Philippines.
Poster 82 **IEICES 11-257**	**Mapping the Dark Sky Heritage: Spatial Modelling of Sky Brightness and Luminance for Pusat Astronomi Borneo in Sarawak, Malaysia.** Hilman Shahmeer Mohamed Azmi, Ahmad Hariz Bely, Roslan Umar, Nor Hazmin Sabri, Ahmad Lutfi Afifi Mohd Nasir, Sharifah Nurul Aisyah Syed Zafar, Emma Zulaiha Zulkifli, Amirul Akmal Redzuan, Hanim Munirah Mohamad Suhaimi, Khairatul Najah Rafie, Arwin Juli Rakhmadi, Musa Garba Abdullahi Universiti Sultan Zainal Abidin, 21300, Terengganu, Malaysia.
Poster 83 **IEICES 11-259**	**A Prototype Web-Based Water Quality Monitoring System for Improved Aquaculture Management using Arduino Nano** Ronnel O. Cacho, Carl Michael S. Quiambao1, Alma E. Tandoy, Lanbert Ry V. Tecson. Caraga State University – Main Campus, Philippines.

Poster 84 **IEICES 11-260**	**Mechanical Property of Philippines' Bambusa Blumeana Treated with Flame: An Experimental Study** Charlene May N. Rivera, Kim Aldrin Mejia, Daniel Nichol R. Valerio, Jason Maximino C. Ongpeng De La Salle University Manila, Philippines.
Poster 85 **IEICES 11-261**	**Prediction of Mechanical Properties of Bambusa blumeana Bamboo Culms Using Non-Destructive Indicating Properties** Robert Andrei Eliezer Pilapil, Jason Maximino Ongpeng, and Daniel Nichol Valerio. De La Salle University, Manila, Philippines.
Poster 86 **IEICES 11-263**	**Evaluation of Virtual Reality for Experiential Learning in Mining Education in the Philippines: A Case Study in Caraga State University** Gerome L. Amper, Eunessa Mae T. Alob, Jayson C. Dollete, Jaymer M. Jayoma Caraga State University, Butuan City, Philippines.
Poster 87 **IEICES 11-264**	**Morphological Diversity of Sea Grapes (Caulerpa) Present in Selected Coastal Areas in Caraga Region, Philippines** Justina Bianca S. Cabarliza, Shirlamaine Irina M. Calagui, Dawn Rosarie F. Orboc Caraga State University, Ampayon, Butuan City, Philippines.
Poster 88 **IEICES 11-266**	**Web-based Record Management System with Data Visualization using Google Data Studio and Zapier Automation for Sangguniang Kabataan (SK)** Aljon C. Fernando, Joko J. Saco, Kent Lawrence Almar G. Samson, Elbert S. Moyon, Jayson C. Dollete Caraga State University, Butuan City, Philippines.
Poster 89 **IEICES 11-267**	**Near Real-Time Room Monitoring System for Occupancy Detection in the College of Computing and Information Sciences at Caraga State University-Main** Bryan Ian C. Ramos, Patrick James D. Dionen, R.Z A. Tabaranza, Giovanni T. Esma [1]Caraga State University, Philippines.
Poster 90 **IEICES 11-269**	**Computational Design and Experimental Validation of a Novel Mechanical Tool for Abaca Tuxy Fiber Extraction** Cindy May C. Belivestre, Juliet S. Maslog[1], Louise Andree B. Tabiola, Doni Koshi S. Estacion. Caraga State University, Philippines.
Poster 91 **IEICES 11-271**	**Predictive Maintenance Algorithm for Machine Failure Using Fuzzy Logic Techniques** Ken Sammuel I. Camacho, Michael Leander P. Roque, Ryan Rhay P. Vicerra, Nilo T. Bugtai. De La Salle University, Philippines.
Poster 92 **IEICES 11-274**	**Development of a Solar-Powered Weather Monitoring System with IoT Integration for the Caraga Region, Philippines** Edgardo Ricardo B. Sajonia Jr., Jeremy Shammah L. Abbu, Clark Leonard R. Rivera, Anamarie P. Sajonia Jr, Hanzel B. Caringal, Alexander T. Demetillo, Ronieto N. Mendoza Caraga State University, Philippines
Poster 93 **IEICES 11-275**	**Low-Power Communication Algorithm for Optimized Energy Consumption in Wireless Sensor Network-Based Solar Streetlights Technology** Lovely Mae Dagsa, Kenneth Mae Jumawan, Ronel A. Vitor, Alfred Dennis B. Balamad. Caraga State University, Philippines.
Poster 94 **IEICES 11-282**	**iSafeButuan: A GPS-Enabled Android Mobile Application Enhancing Citizen-Police Collaboration for Incident Reporting and Emergency Response** Debby B. Verzosa, Mary Rose O. Raz, Maria Besa Joy M. Ortuyo, Caraga State University, Philippines.
Poster 95 **IEICES 11-283**	**Structural Investigation of Pipe Sleeve Errors in RC Beams Using FEM: A Case Study** Mary Joanne C. Aniñon, Bernardo A. Lejano Department of Civil Engineering, Gokongwei College of Engineering, De La Salle University, Philippines.
Poster 96 **IEICES 11-287**	**Carbon Emission Reduction in Urban Transport: A Comprehensive Review of Urban Transport Challenges** Joseph Raniel A. Bianes, Armando N. Victoria Jr., Manuel M. Muhi[1], Ginno L. Andres Polytechnic University of the Philippines
Poster 97 **IEICES 11-288**	**Essential Soft Skills for Construction Project Managers to Achieve Sustainable Development Goals: A Bibliometric and Comprehensive Review** Joseph Raniel A. Bianes, Armando N. Victoria Jr., Christopher F. Sasot, Manuel M. Muhi Polytechnic University of the Philippines
Poster 98 **IEICES 11-289**	**Consolidation Characteristics Assessment of SPT-Derived Clayey Silt Samples Using One-Dimensional Consolidation Test and PLAXIS 2D Analysis** Marc Lin F. Abonales, Joter Genesis R. Palad, Chander Brize E. Daro, Jim Michael M. Racaza.

	Caraga State University, Philippines.
Poster 99 **IEICES 11-290**	**A Study on the Performance of Commercial Lithium Batteries in Philippine Online Markets** Ronieto N. Mendoza, Bianca Amor R. Odtoja. Caraga State University, Philippines
Poster 100 **IEICES 11-178**	**IMPACT ASSESSMENT OF RURAL DEVELOPMENT AND AGRICULTURAL INFRASTRUCTURE SUSTAINABILITY THROUGH FARM-TO-MARKET ROADS IN AGUSAN DEL SUR** Kathleen Joy A. Edradan, Laurenz A. Languay, Aljon E. Bocobo Caraga State University, Philippines.
Poster 101 **IEICES 11-293**	**GIS-BASED SUITABILITY ANALYSIS FOR SOLAR ENERGY POTENTIAL SITES IN ZAMBOANGA CITY USING WEIGHTED DECISION SUPPORT** Adrian Melana, Jhon Lester Arellaga, Veronica Capin, Ayin Tamondong. Caraga State University, Philippines.
Poster 102 **IEICES 11-295**	**Application of Frequency Ratio Analysis and GIS techniques for Groundwater Potential Zone Mapping in the ultramafic hard rock terrain of Manoligao Watershed, Dinagat Islands, Philippines** Yvonne T. Olayvar, Nichole Anthony D. Pacle Caraga State University, Butuan City 8600, Philippines.
Poster 103 **IEICES 11-296**	**Earthquake-Induced Landslide Susceptibility Mapping using Integrated Weights of Evidence and Analytical Hierarchy Process Method: A Case Study in Anao-aon Quadrangle, Surigao, Philippines** Patrick Sam M. Buenavista, John Carlos C. Paler, Jun Love E. Gesta Caraga State University, Philippines.
Poster 104 **IEICES 11-298**	**Evaluation of the Shear Strength of Clayey Sand Treated with Lignin Biopolymer** Erica Elice S. Uy, Jomari F. Tan, Liam Joshua T. Chua, Karl Stephen B. Estacio, Santiago T. Gazmin, Julienne Bettina V. Ulit. De La Salle University, Manila, Philippines.
Poster 105 **IEICES 11-301**	**ANALYSIS OF MANGROVE COVER DYNAMICS IN LIANGA, SURIGAO DEL SUR USING TIME SERIES EARTH OBSERVATION DATA** John Rudmark l. Ebol, Gerlyn Noica Rose C. Villanueva, Sherwin F. Cubero. Caraga State University, Philippines.
Poster 106 **IEICES 11-302**	**Evaluating the Research Landscape of Earth Blocks in Sustainable Construction: A Bibliometric Analysis (2000–2024)** Enrico Encomienda, Kyla Evangelista, Francia Palatino, Cullen Villareal, Daniel Valerio, Joenel Galupino De La Salle University, Philippines.
Poster 107 **IEICES 11-305**	**Organic–Inorganic Hybrids: From Synthesis to Emerging Applications in Electronics and Energy** Mostafa M. Elkady, Mohammed F. Radwan. Kyushu University, Japan.
Poster 108 **IEICES 11-308**	**Effective Orthophoto Image Segmentation Using Modified Canny Edge Algorithm** James Earl D. Cubillas, Jhon Vie R. Quiel, Shane Angela Otugay, Clark Justine L. Gonzales. Caraga State University, Philippines.
Poster 109 **IEICES 11-312**	**PhilCurrency Aid: A Mobile Application for Real-Time Detection of Philippine Banknotes and Coins for the Partially Blind Individuals** Dexter A. Romaguera, Giovanni T. Esma, Fredrick France E. Bernal, Gerry P. Montilde Caraga State University, Philippines.
Poster 110 **IEICES 11-319**	**Performance Evaluation of Coconut Shell as Partial Aggregate Replacement in Concrete: Compressive Strength, Sorptivity, and Sustainability Perspectives** Godfrey Jan B. Bailo, Cindy May C. Belivestre, Kristine J. Blanco Caraga State University, Philippines.
Poster 111 **IEICES 11-320**	**Free water surface constructed wetlands area estimation through river flow interpolation.** Miguel Antonio Campos, John Kristoffer Chua, Sophia Claudette Gaudia, Nicanor Jr. Chan, Sergi Garbanzos, and Marla Maniquiz-Redillas De La Salle University, Manila 1004, Philippines.
Poster 112 **IEICES 11-321**	**Spatio-temporal variations of the soil moisture and drainage network of Barangay Valencia, Cagdianao, Dinagat Islands, Philippines through lineament analysis and remote sensing techniques** Shaira Enriquez-Balidoy, Christian Salvador, Yvonne T. Olayvar, Marlon V. Elvira, Angilhiza Marie B. Francisco, Nichole Anthony D. Pacle Caraga State University, Philippines.

Poster 114 **IEICES 11-324**	**ANNUAL WATER YIELD ASSESSMENT OF ANDANAN-WAWA WATERSHED FOREST RESERVE USING GIS TECHNIQUES AT BAYUGAN CITY, AGUSAN DEL SUR, PHILIPPINES** Carryl Niz C. Abonales, Reyna A. Antiola, Aljon C. Bocobo, Jobelle J. Capilitan. Caraga State University, Philippines.
Poster 115 **IEICES 11-325**	**PHYSICAL AND SOCIO-ECONOMIC IMPACT OF FARM-TO-MARKET ROADS (FMR) IN SURIGAO DEL SUR, PHILIPPINES.** Justin C. Gavino, Denise Ricci C. Estobo, Jobelle J. Capilitan. Caraga State University, Philippines.
Poster 116 **IEICES 11-327**	**Design and Development of Automatic Tree Planter of Tree Sapling** Lyndon C. Merciales, Jowell S. Lucino, Ronieto N. Mendoza, Ervine E. Lanquino Caraga State University, Philippines.
Poster 117 **IEICES 11-331**	**Response Surface Optimization of Pre-commercial model of the CSU Sago (Metroxylon sagu) Mechanical Extractor** Marys Angel G. Edilo, Christel Jane S. Himarangan, Aljon E. Bocobo, Neil Caesar M. Tado, May Rose B. Osoteo, Art M. Dalman, Juven G. Luzorata, Cindy May C. Belivestre Caraga State University, Philippines.

Poster 119 **IEICES 11-333**	**Drainage network characterization through lineament analysis of Manoligao watershed, Dinagat Islands, Philippines using multifactorial approach** Christian Salvador, Shaira Enriquez-Balidoy, Patrick Sam M. Buenavista, Yvonne T. Olayvar, Arnaldo C. Gagula, Nichole Anthony D. Pacle Caraga State University, Philippines.
Poster 120 **IEICES 11-337**	**Overrun Analysis of Academic Building Projects in the Greater Manila Area Using Analytic Hierarchy Process** Miguel Nino S. Muli, Alpha G. Mabunga, Maria Emilia P. Sevilla. De La Salle University, Philippines.
Poster 121 **IEICES 11-339**	**DESIGN, FABRICATION, AND PERFORMANCE EVALUATION OF A VILLAGE-TYPE SEMI-AUTOMATED COCONUT (Cocos nucifera) MEAT GRATER** Junel Bryan N. Cubillas, Judy Boy C. Dobluis, Art M. Dalman. Caraga State University, Philippines.
Poster 122 **IEICES 11-340**	**Assessment of Multi-Hazard Risk Using Geomatics Approach: A Case in Agusan del Norte Province, Philippines** Ronel A. Mondejat, Arnaldo C. Gagula Caraga State University, Philippines.
Poster 123 **IEICES 11-345**	**MODIFICATION, FABRICATION, AND PERFORMANCE EVALUATION OF A COCO SUGAR PROCESSING (CCSP) MACHINE** Maria Eightcel Millen E. Escaret, Ma. Angela T. Labajo, Art M. Dalman Caraga State University, Philippines.
Poster 124 **IEICES 11-346**	**Assessment of Rainfall-Induced Landslide Hazards Through Multi-Criteria Geospatial Analysis** Jun Love E. Gesta, Allen James Mucha, Renielle John C. Largo Caraga State University, Philippines
Poster 125 **IEICES 11-352**	**Soil Loss Modeling of the Porac River Basin using RUSLE Based on LULC Projection Using CA-ANN in MOLUSCE** Kent Joshua San Pedro, Sergi Garbanzos, and Marla Maniquiz-Redillas De La Salle University, Philippines
Poster 126 **IEICES 11-358**	**Leveraging Large Language Model in the Web-Based Student Performance Monitoring System for Los Angeles National High School** John Voltaire S. Baslot, MJ C. Miral, Jacqueline P. Omlang, Jenelyn R. Asis Caraga State University, Philippines.
Poster 127 **IEICES 11-359**	**Development of Mobile Gamification App for Engaging English Vocabulary in Grade 9 Students at Ampayon National High School** Myle Shasnie A. Basinang, Christian Dave Tabaranza, Roider Talingting[3] Jenelyn R. Asis. Caraga State University, Philippines.
Poster 128 **IEICES 11-361**	**A Web-Based Scheduling System for Resource Management in Secondary Education Leveraging Greedy Algorithm**

	John Michael F. Cutamora, Gwyneth Raine Niog, Ava Luriel Pino, Nimfa Amistoso Caraga State University, Philippines.
Poster 129 **IEICES 11-362**	**Geotechnical Investigation of Caraga State University-Main Campus for Structural Development** Marc Lin F. Abonales, Ivory Jane S. Agot, Gerald O. Marquezo, Caraga State University, Philippines.
Poster 130 **IEICES 11-365**	**Adaptive Robotic Arm Control: Leveraging Curriculum Learning and Deep Reinforcement Learning for Efficient Pick-and-Lift Operations Through Simulation** John Mark B. Correa, Junrie B. Matias. Caraga State University-Main, Philippines.
Poster 131 **IEICES 11-164**	**Students' Perception differences on Online Learning and Blending Learning of Applied Exercise Rehabilitation Course between Students in Faculty Of Sports Science University Teknologi Mara (UiTM) Shah Alam And Arau Campus** Siti Nurul Ezzah Che Man, Nuramnani Suffiya Rohim@Rahim, Hammad Haziq Ismail, Dzulhafiz Zikrie Dzulkapli, Syazrena Zainudin, Muhammad Nur Syahid Mohd Pozi, Nurariqah Nazihah Alham, Nurul Ain Syazwani Zulkarnan@Ismail, Norshahizah Halidi, Shariman Ismadi Ismail, Norasrudin Sulaiman, Rahmat Adnan,Faculty of Sports Science and Recreation, Universiti Teknologi MARA, Shah Alam, MALAYSIA.
Poster 132 **IEICES 11-368**	**Geographic Information System (GIS) – Based Network Analysis as a Decision Support for Relief Goods Distribution in Selected Barangays in Marikina City, Philippines** Adrian Melana, Jhon Lester Arellaga, Veronica Capin, Virginia Soriano. Caraga State University, Philippines.
Poster 133 **IEICES 11-370**	**Development of a Rotary-Flash Dryer for Sago Starch** Gabril B. Canillo, Jezabel P. Madelo, May Rose B. Osoteo. Caraga State University, Philippines.
Poster 134 **IEICES 11-375**	**Misinformation Representation and Feature Shifts from Machine Unlearning in Large Language Models (LLMs)** Paolo De los Santos, Ellian Marquez, Kyle Reynoso, Paul Regonia . University of the Philippines Diliman.
Poster 135 **IEICES 11-382**	**Sustainable Rice Systems in Rural Communities: Integrating Demographic, Agricultural, Consumption, and Waste Management Insights** Rex G. Parro, Michelle V. Japitana, Stephanie Mae S. Albores, Lorie Cris S. Asube Caraga State University, Philippines.
Poster 136 **IEICES 11-386**	**Advancing Sustainable Mining with Autonomous Robotic Systems: The Design and Development of Mine GEARS** Rudolph Joshua Candare, Adrian Pete Lagare, Ronnel Cacho, Ydron Paul Amarga, James Earl Cubillas, Michelle Japitana, Christopher Agosila, Joshua Orillaneda, Hayacinth Jimenez Caraga State University, Philippines.
Poster 137 **IEICES 11-390**	**Effect of temperature and tempering time on the sensory attributes of roasted cacao beans** Chris Jury E. Amba, Mary Grace A. Traya, Neil Caesar M. Tado, May Rose B. Osoteo Caraga State University, Philippines.
Poster 138 **IEICES 11-105**	**GIS Isohyet and Thiessen Polygon Methods for Rainfall Pattern in Kelantan, Malaysia** Ismafatin Nabilah Ismail, Mohd Khairul Amri Kamarudin, Frankie Marcus Ata, Nor Rohaizah Jamil, Haryati Shafii, Endri Sanopaka. East Coast Environmental Research Institute, Universiti Sultan Zainal Abidin, Malaysia.
Poster 139 **IEICES 11-058**	**MULTILAYER PERCEPTRON PREDICTION MODEL FOR TRANSFORMER HEALTH INDEX MONITORING** Nazrul Fariq Makmor, Afzan Zamzamir, Ja'afar Adnan, Azharudin Mokhtarruddin, Yasotharan Vusuvanathan, Yulni Januar Faculty of Engineering, National Defence University of Malaysia.
Poster 140 **IEICES 11-194**	**Evaluation of Nitrocellulose-Based Igniter Designs for Squib Blood in Special Effects Applications** Noor Farahana Abdul Rahman, Zuraidah Salleh, Muhammad Zakwan Azizi, Ahmad Hussein Abdul Hamid, Norafiza Salleh Faculty of Mechanical Engineering, Universiti Teknologi MARA, Malaysia.
Poster 141 **IEICES 11-401**	**A Review on Advances in Multi-Target-Directed Ligands for Alzheimer's Disease** Doaa A. Elsayed, Jalal Hasan Mohammed, Wesam S. Shehab, **Mohamed E.Abdu** **Kyushu University, Japan**