

IEEE HNICEM 2023 SCHEDULE
Hybrid (Coron, Palawan and Online thru Zoom)

Day 0 (November 19, 2023)	
8:00 PM	PARTICIPANT ONLINE REGISTRATION

Note:

*Opening Program and Parallel Sessions are purely online.

*Plenary Lectures (November 21) and Closing Program are in hybrid setup.

OPENING PROGRAM (ONLINE)

Day 1 (November 20, 2023)		
8:00 AM	8:10 AM	ARRIVAL OF PARTICIPANTS
8:10 AM	8:20 AM	OPENING REMARKS
	<i>Speaker</i>	Prof. Dr. Alvin Culaba De La Salle University
8:20 AM	9:00 AM	PLENARY LECTURE 1
	<i>Lecturer</i>	Prof. Wei-Hsin Chen National Cheng Kung University
	<i>Moderator</i>	Prof. Dr. Alvin Culaba De La Salle University
9:00 AM	10:00 AM	PLENARY LECTURE 2
	<i>Lecturer</i>	Prof. Takako Hashimoto Chiba University of Commerce
	<i>Moderator</i>	Prof. Dr. Ryan Rhay Vicerra De La Salle University

HNICEM 2023 (November 20)

11:15 AM to 5:45 PM

PARALLEL SESSIONS

	Zoom 1	Zoom 2	Zoom 3	Zoom 4	Zoom 5	Zoom 6	Zoom 7	Zoom 8	Zoom 9	Zoom 10
11:15 am - 12:15 pm	A1: Biomedical Robotics and Health Technologies 1	B1: Bio-energy, Environment, and Renewables	C1: Circuits, Sensor Networks, Signals, and Communication Technologies	D1: Computer Science, Data Science, and Algorithms	E1: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F1: Education, Media, Knowledge, and Business Platforms	G1: Nanotechnology, Manufacturing and Industrial Processes	H1: Plant, Agriculture, and Food Systems	I1: Transportation, Infrastructure, and Urban Cities Development	F6: Education, Media, Knowledge, and Business Platforms
12:15 pm - 01:00 pm	LUNCH BREAK									
01:00 pm - 02:00 pm	A2: Biomedical Robotics and Health Technologies 2	B2: Bio-energy, Environment, and Renewables	C2: Circuits, Sensor Networks, Signals, and Communication Technologies	D2: Computer Science, Data Science, and Algorithms	E2: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F2: Education, Media, Knowledge, and Business Platforms	G2: Nanotechnology, Manufacturing and Industrial Processes	H2: Plant, Agriculture, and Food Systems	I2: Transportation, Infrastructure, and Urban Cities Development	F7: Education, Media, Knowledge, and Business Platforms
02:15 pm - 03:15 pm	A3: Biomedical Robotics and Health Technologies 3	B3: Bio-energy, Environment, and Renewables	C3: Circuits, Sensor Networks, Signals, and Communication Technologies	D3: Computer Science, Data Science, and Algorithms	E3: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F3: Education, Media, Knowledge, and Business Platforms	G3: Nanotechnology, Manufacturing and Industrial Processes	H3: Plant, Agriculture, and Food Systems	I3: Transportation, Infrastructure, and Urban Cities Development	F8: Education, Media, Knowledge, and Business Platforms
03:30 pm - 04:30 pm	A4: Biomedical Robotics and Health Technologies 4	B4: Bio-energy, Environment, and Renewables	C4: Circuits, Sensor Networks, Signals, and Communication Technologies	D4: Computer Science, Data Science, and Algorithms	E4: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F4: Education, Media, Knowledge, and Business Platforms	G4: Nanotechnology, Manufacturing and Industrial Processes	H4: Plant, Agriculture, and Food Systems	I4: Transportation, Infrastructure, and Urban Cities Development	F9: Education, Media, Knowledge, and Business Platforms
04:45 pm - 5:45 pm	A5: Biomedical Robotics and Health Technologies 5	B5: Bio-energy, Environment, and Renewables	C5: Circuits, Sensor Networks, Signals, and Communication Technologies	D5: Computer Science, Data Science, and Algorithms	E5: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	F5: Education, Media, Knowledge, and Business Platforms	G5: Nanotechnology, Manufacturing and Industrial Processes	H5: Plant, Agriculture, and Food Systems	A6: Biomedical Robotics and Health Technologies 5	F10: Education, Media, Knowledge, and Business Platforms



AM PLENARY SESSIONS (HYBRID: ONLINE AND TAG RESORT)

Day 2 (November 21, 2023)		
8:30 AM	8:45 AM	OPENING PROGRAM
<i>Welcome Remarks</i>		Prof. Dr. Elmer P. Dadios General Chair – IEEE HNICEM 2023 De La Salle University, Manila, Philippines
8:45 AM	9:40 AM	PLENARY LECTURE 1
<i>Topic</i>		Population Ageing: Aspects and Global Health Attributes
<i>Speaker</i>		Prof. Dr. Raouf Naguib Liverpool Hope University, UK
<i>Moderator</i>		Prof. Dr. Laurence Gan Lim, DLSU
9:45 AM	10:40 AM	PLENARY LECTURE 2
<i>Topic</i>		The Automated Ocean Vertical Farm
<i>Speaker</i>		Prof. Dr. Joel Cuello Department of Biosystems Engineering, The University of Arizona, U.S.A.
<i>Moderator</i>		Prof. Dr. Alvin Culaba, DLSU
10:40 AM	10:55 AM	COFFEE BREAK
10:55 AM	11:50 AM	PLENARY LECTURE 3
<i>Topic</i>		Robotics in Unstructured and Human Environments – A Driverless Car Example
<i>Speaker</i>		Prof. Dr. Marcelo Ang Jr. National University of Singapore, Singapore
<i>Moderator</i>		Prof. Dr. Ryan Rhay Vicerra, DLSU
12:00 NN to 1:00 PM: LUNCH		



PM PLENARY SESSIONS (HYBRID: ONLINE AND TAG RESORT)

Day 2 (November 21, 2023)		
1:00 PM	2:00 PM	PLENARY LECTURE 4
<i>Speaker</i>		Prof. Dr. Toshio Fukuda Meijo University, Japan Professor Emeritus of Nagoya University, Japan IEEE President and CEO (2020)
<i>Moderator</i>		Prof. Dr. Elmer P. Dadios, DLSU
2:10 PM	3:10 PM	PLENARY LECTURE 5
<i>Topic</i>		New Horizons: Robots that Leverage Human Skills: Deep-Sea Robotic Exploration
<i>Speaker</i>		Prof. Dr. Oussama Khatib Stanford University, USA
<i>Moderator</i>		Prof. Dr. Marcelo Ang Jr., NUS
3:10 PM	3:30 PM	COFFEE BREAK
3:30 PM	4:30 PM	PLENARY LECTURE 6
<i>Topic</i>		How About Remote Sensing and Monitoring? In Haptic-Based Applications
<i>Speaker</i>		Prof. Dr. Anuradha Ranasinghe Liverpool Hope University, UK
<i>Moderator</i>		Prof. Dr. Raouf Naguib, LHU
4:30 PM	5:30 PM	PLENARY LECTURE 7
<i>Topic</i>		Biomass Low-Temperature Degradation for Biofuel Production, Environmental Remediation and Carbon-Negative Materials
<i>Speaker</i>		Prof. Dr. Professor Wei-Hsin Chen National Cheng Kung University, Taiwan.
<i>Moderator</i>		Prof. Dr. Alvin Culaba, DLSU
7:00 PM	8:30 PM	BANQUET DINNER (On-site Participants)



HNICEM 2023 (November 22)

9:00 AM to 12:45 PM

PARALLEL SESSIONS and CLOSING PROGRAM

Day 3 (November 22, 2023)

	Zoom 1	Zoom 2	Zoom 3	Zoom 4	Zoom 5	Zoom 6	Zoom 7	Zoom 8	Zoom 9	Zoom 10	Zoom 11
09:00 am - 10:00 am	F11: Education, Media, Knowledge, and Business Platforms	F13: Education, Media, Knowledge, and Business Platforms	C6: Circuits, Sensor Networks, Signals, and Communication Technologies	F15: Education, Media, Knowledge, and Business Platforms	E6: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	H6: Plant, Agriculture, and Food Systems	G6: Nanotechnology, Manufacturing and Industrial Processes	H8: Plant, Agriculture, and Food Systems	H10: Plant, Agriculture, and Food Systems	I5: Transportation, Infrastructure, and Urban Cities Development	J2: Multidisciplinary
10:15 am - 11:15 am	F12: Education, Media, Knowledge, and Business Platforms	F14: Education, Media, Knowledge, and Business Platforms	C7: Circuits, Sensor Networks, Signals, and Communication Technologies	G8: Nanotechnology, Manufacturing and Industrial Processes	E7: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	H7: Plant, Agriculture, and Food Systems	G7: Nanotechnology, Manufacturing and Industrial Processes	H9: Plant, Agriculture, and Food Systems	E8: Computer Vision, Artificial Intelligence, Robotics, and Intelligent Systems	J1: Multidisciplinary	J3: Multidisciplinary
11:45 am - 12:45 pm	Awarding and Closing Ceremony										

Paper ID No.	Authors	Paper Title	Session Code
156	Abero Isaiah Geronga, Kenji Kotani, John Ronald Custodio, Carlos Miguel Balderosa, Nicholas Andrew Joquino and Elcid Serrano	Simulations Regarding the Efficiency and Effectiveness of Implemented Supply Chains in the Modern Age	G1
166	Riza Carmela Pineda, Jerome Dylan Villamater, Kenneth Rey Sumalinog, Philip Martinez, Ramon Vann Cleff Raro, Jethro Betsayda and Peter Antonio Banzon	LokaLTE: Performance Evaluation of an SDR-Based LTE Community Cellular Network in the Philippines	C1
186	Franz Gerard Gonzales, Jheo Ong, Aron Tomas, Michael Anthony Villar, Jaime Honra and Gawayne Escalona	Design, Fabrication and Testing of a Coconut Waste Briquetting Machine Paired with a Single Shaft Shredder	G3
193	Maria Tamarina Prawati and Andrew Steven Puika	Artificial Intelligence Linguistic Register and Personality Architecture: users' perception	E1
201	Einstein Yong, Luigi Carlo De Jesus, Crishiel Paige Villanueva, Jason Maxdale Escalada, Rovic James Lopera and John Ivan Arcinue	Arduino-Controlled BLDC Motor for the Mobility of Asia Pacific College RamiBot: Concierge Robot	E1
218	Aaron Don Africa, Jet Orville Chua and Josef Lyle Solis	PID Tuning of Speed Controller Using Ziegler-Nichols and Manual Method DC Motor	C1
219	Mary Jane Samonte, Emmanuel Carlos Medina, Jian-Luc Artreaux Resari and Joshua Borja	Towards Adaptive Personality-based Learning System: A Case Study of Mapua University in Designing Computing Course e-Materials	F1
322	Asma Abu-Samah, Jennifer Dela Cruz, Tuan Muhamad Affiq Aimullah Tuan Mohd Pauzi, Dalilah Ghaffa, Rosdiadee Nordin and Nor Fadzilah Abdullah	Classification of stress using Machine Learning based on Physiological and Psychological Data from Wearables	D1
341	Ramon Vann Cleff Raro, Miguel Asido, Jan Daryl San Juan, Kent Jasper Capillo and Ruel Mark Cadubla	Intelligent Yellow Interval Actuation using Computer Vision Automated Traffic Parameter Sensing and Extraction	I1
345	Adulfo Arevalo	Inflatin Elasticity of GDP Per Capita: A Comparative Study Between the Developed and the Developing Economies	F1
350	Hazel Anuncio and Ador Utulo	Text Translation: Sign Language Motion Detection for Fast-food Ordering using Neural Networks	D1
365	Fredelino Galleto Jr., Aaron Don Africa, Rhen Anjerome Bedruz, Marnel Peradilla, Jamie Lynn Chua and Harold John Tan	Y-Shaped Dipole High-Frequency Antenna Analysis: An Overview Design as Alternative for Microstrip Antennas	C1
376	Cielo Joyce Ando, Arnold Paglinawan and Charmaine Paglinawan	Machine Learning for Prosthesis Motion Intent Classification Using Multiple Non-invasive Sensing Modalities	A1
388	Bea Millen Barba, Cazandra Denise Comia, Joseph Michael Sales, Rafael Enrico Samson, Jenny Calot and Kevin Lawrence de Jesus	Rainwater Harvesting as an Alternative Water Supply for a Residential Building in Cavite, Philippines	B1
399	Adrian Genevieve Janairo, Jonah Jahara Baun, Ronnie Concepcion II, R-Jay Relano, Edwin Sybingco and Argel Bandala	Root System Architecture Characterization of Short Duration Magnetoprimed Lettuce Seeds through Helmholtz Coil Using SmartRoot	H10
419	Leif Oliver Coronado and Diana Rose Rivera	Net Energy Analysis of Pyrolyzed Olive Pomace Using Life Cycle Assessment Approach	B1
420	John Heland Jasper Ortega, Ace Lagman, Roman De Angel, Henry Dyke Balmeo, Alexis John Rubio, Joan Lazaro, Nelson Rodelas, Dr. Maria Amelia Damian and Dr. Joel Mangaba	Designing Student's Study Plan: Decision-based Recommendation System towards Program Completion Using Forward Chaining Algorithm	F1
421	Rosemarie Pellegrino, Jocelyn Villaverde, Justine Bautista, John Rivera and Ivan Patrick Tipan	Humidity and Temperature Control System for Oyster Mushroom	H1
447	Paul Bryan Elfante, Carl Timothy Santiago, Ralf Edouard Tan, Jon Carlos Revalde, Gerardo Augusto, Jeremias Gonzaga, Joseph Aldrin Chua and Laurence Gan Lim	Numerical Simulation of a Double-Layer H-Darrieus Cross-Axis Wind Turbine	B1
509	Edmon Fernandez, Jennifer Dela Cruz and Ryan Reyes	Duck Egg Setter System with Sorting Process Using Image Processing	H1

516	Luis Antonio Orbegoso Moreno, Edgar David Valverde Ramirez, José María Pasco Sánchez and José Luis Ruiz Rodríguez	An Approach to the Inverse Dynamics Model for a Serial 3 DOF Robot Using Neural Networks	E1
573	Alec Kristoffer Gawaran, Jewel Kisha Monzaga, Sheila Mae Carungay and Lourdes Lasian	Transforming Dining with Real-time Innovation in Quick-service Restaurant Experience	F1
657	Peter Laurence Valencia	Agent Theory based Multiple Case Study of Government CIO on IT Procurement	G1
753	Ike Baguio, Joseph Amistad Jr, Christian Rey Dibdib, Juleven Tindugan Jr and Mitchel Lou Alfanta	Workstation Evaluation of Work from Home Call Center Agents Using ROSA	F2
765	Jasper Meynard Arana, Nestley Sore and Evelyn Raguindin	College of Engineering-Automated OBE-CQI System	F2
803	Jonnell Alejandrino, Ronnie Concepcion II, Argel Bandala and Elmer Dadios	Detection of Chilling Injury in Cucumis sativus Using Bioimpedance Spectroscopy and Machine Learning Algorithms	H7
816	Danilyn Joy Aquino, Alvin Roland Alcedo, Melo Christopher Elgincolin, Justine March Gilongos, Jahnn Laurenz Roma and Kenneth Torralba	Swarm Drone Crop Management System using Artificial Intelligence Deep Neural Network for Pechay Plant	E5
826	Pocholo James Loresco and Mark Eullysis Alzaga	Deep Learning-Based Automatic Music Transcription of the Diwdiw-as, a Native Filipino Bamboo Flute	D1
861	Edmon Fernandez and Jennifer Dela Cruz	Structural Health Monitoring System Using Liquid Metal Antenna via Zigbee Wireless Sensor Network	I1
866	Jasper Meynard Arana, Mark Joshua Diamse, Jeunice Nicole Frasco, Bryan Nogra and Thevinince Venasquez	A Design of IoT-based Capture Efficiency Monitoring and Alert System for Storm Grate Inlets through LoRaWan	C1
870	Carey Louise Arroyo, Michael Leander Roque and Ronnie Concepcion II	Analytical Hierarchy Process-based Material Selection for Fiber Reinforcement of Polylactic Acid 3D Printing Biofilament	G3
895	Yolanda Austria, Bryan Gutierrez, Josh Rienier Ramos, Jasier Sahagun and Christian Lee Sam	Bluetooth Arcade Stick with Piezoelectric Energy Harvesting	B1
949	Raegan Faith Paguirigan, Niel Sergianne Mendoza, Luis Joseph Tobio, Ram Henrick Silva, Marilou Jamis and Emeliza Yabut	Framework for the development of GoFarmers: A Mobile and Web Application for Post-Disaster Agricultural Rehabilitation Process of Crops in San Miguel, Bulacan	J2
964	AnalyN Yumang, Fabian Panelo IV and Christian Rupido	Analyzing Effects of Daily Activities on Sitting Posture Using Sensor Fusion with Mahony Filter	A1
1027	Ma. Corazon Fernando, Janice Abellana, Kyla Marie Trinidad, Kyla Marie Bajar, Angela Anne Alcaraz and Rica Mae Asido	e-Kolekta: Solid Waste Management System (SWMS), A Sustaining Brooke's Point Palawan Solid Waste Department (SWD) Operation for Waste Analysis	B2
1105	Florante Poso and Ivan Karl	Slope Stability Analysis Simulation for Riverbanks using Morgenstern-Price Method	I1
1115	Ravi Kodali	Generative AI in Education	F2
1129	Justine Wenzy Borromeo, Bryan Wiedemann and Glenn Magwili	Development of an Adjustable Solar Array Density of Agrivoltaic System for Bok Choy (Brassica rapa subsp. Chinensis) Growth Condition	B2
1139	David Charles Alejandro, Angelique Lacasandile, Adrienne Bleu Canivel, Allaiza Era and Ma. Reina Rose Gulmatico	Modernization of Resource Borrowing: The Inception of the National University Allied Health Laboratory Inventory System	F2
1163	Angelique Lacasandile, Adrienne Bleu Canivel, Clarence Robedillo, Lord Edgardian Tavu and Allaiza Era	Reinforcing Sustainable Exchange for Equipment Trading: The Emergence of National University Gear and Tech Trading (NU GTRADE) Application	F3
1164	Avillardo Clarin, Ronald Pancho, Roland Simbre, Ellery De Leon, Claro Mananquil and Adulfo Arevalo	Consumer's Perspective on Exploration of Cryptocurrency in the Philippines Using Investment and Electronic Payment Transactions	F3

1265	R-Jay Relano, Jason Espanola, Ronnie Concepcion II, Ryan Rhay Vicerra, Argel Bandala and Elmer Dadios	ADSOAP: Arduino-Driven Seamless Operation Advancement in Production for Low-cost Automation System of Soap Cutting and Stamping Machines	G2
1276	Pocholo James Loresco, Raymond Joseph Meimban and Rogelio Aniez Jr.	Identifying Rust Infection and Estimating Severity on Coffee Leaves Using Vision-Based ANN-KNN-Thresholding Methods	H1
1286	Criscel Lamsin and Marivic Tangkeko	Redesigning and Building a Business Process Architecture: The Case of De La Salle University's Digital Transformation Journey	F3
1309	Richard Tan Ai, Andres Mayol, Ronnie Concepcion II, Homer Co, Ryan Vicerra, Argel Bandala and Elmer Dadios	Optimization of a Fin Ray Effect Gripper using Taguchi Design	E2
1320	Asher Angelo Buan, Caurelou Pitoc, Flordeliza Valiente, Abel Zyrone Tuboro and Arnold Paglinawan	Design of a 500W Single Phase Continuous Conduction Mode (CCM) Boost Power Factor Correction (PFC) with Automatic Transfer Switch (ATS) and Electromagnetic Compatibility (EMC)	C2
1406	Jose Felipe Jr	Android App Supported Wearable Tracking Device with SMS Alert	A1
1409	Glen Espeña, Franz Joseph Libao, Maybelyn Rivera, Nicole Ann De Luna, Von Jansen Comedia and Arnest Jerome Mojica	Enhancing Water Quality Control and Monitoring in Shrimp Farms with LoRaWAN Technology	H2
1447	Donabel Abuan, Elmer Dadios, Argel Bandala, Ryan Rhay Vicerra, Laurence Gan Lim, Edwin Sybingco and Raouf Naguib	Exploring Variable Speed Control Using Leap Motion : An Integration Finger Gestures, L298N, and NodeMCU ESP8266 for Wireless Communication	C2
1452	Einstein Yong, Luigi Carlo De Jesus, Marnely Julisse Abordo, Marjorie Co, Darren Derige and Don Joacquin Perez	Chatbot and Voicebot Feature for RamiBot Using Deep Learning Sequential Model for Intent Classification	D1
1475	Xinlong Bao, John Lemuel Nesperos, Deian Angelo Wijangco, Miro Manuel Hernandez, Dominic Yu, Matthew Orga, Claire Receli Reñosa and Immanuel Jose Valencia	A Software Management System Solution for Digitalization and Automation in Construction Sector	I1
1512	Reggie Gustilo, Anna Sheila Crisostomo and Carl Christian Chaguile	Stock Market Prediction using Linear Regression	F15
1586	Judette Eina Buhay, Ma. Elenita Gutierrez and Glenn Magwili	Design and Implementation of a Sensor-Based Autonomous Firefighting Robot for Detection, Classification, and Extinguishing of Class A and Class B Fires	E2
1598	Carey Louise Arroyo, Newton John Suganob, Ronnie Concepcion II and Robert Kerwin Billones	Interplay of Cyber Physical Systems for Space Technologies with Emphasis on Space Crop Farming	H1
1737	Jeanette Pao, Charles Alver Banglos, Steve Clar, Immanuel Paradela, Carl John Salaan and Sherwin Guirnaldo	Aerial-Based Release and Retrieval Mechanisms for Ground Robot Deployment and Retrieval	E6
1751	Michael Pacis	Protection Coordination Study of a 4.16kV International Airport Power Distribution Network Using Genetic Algorithm	E3
1768	Maribel Misola, Mona Earl Bayono, Jejomar Cariaga, Nino Merencilla, Brian Edison Pantallano, Jude Tiu, Vincent Earl Villanueva and Paul Ezra Yango	Visual Acuity Assessment Device for Mute and/or Deaf-Mute Individuals	A1
1816	Hannah Camiile Dacara, Jushua Ramos, Allyssa Marice Bayan, Antonio Soleno, Flordeliza Valiente and Arnold Paglinawan	Design of an ASIC-Controlled Bridgeless PFC Circuit with Two-Stage EMI Filter	C2
1824	Vance Del Rosario, Benjamin David Fernandez and Dionis Padilla	Email Spam Classification using DistilBERT	D2
1862	Jasper Meynard Arana, Anna May Ramos, Heavenly Nicole Casiguran, Charles Christopher Prado, Reighdon Daylo, Diether De Ocampo and Melle Christine Simon	A Technical Approach to Motorcycle Platoon Coordination via Motorcycle-to-Motorcycle Communications	C2
1913	Junwil Jayro Bez, Jeo Rafael Molina and John Christian Nicdao	Development of Fish Scale Lamina as Material in Solar Panel for Application on Low Voltage Occupancy	G2
1922	Aldus Rex Tiongson, Michael Tumala, Bobby Evangelista, Glory Fel Talisic,	Initial Development of Remote-Controlled Coconut Harvesting Robot Prototype	H9

	Johncarl Valdemosa, Faith Baldonado, Jonathan Solano, Carl John Salaan and Lester Librado		
1931	Francisco Munsayac Jr III, Armyn Sy and Renann Baldivino	Development of an Image Reconstruction Algorithm using Genetic Algorithm	D2
1936	Lance Garcia, Raphael Antoine Lim, Nester Neil Lopez, Fernando Jr. Magallanes, Ronnie Concepcion II and Ryan Rhay Vicerra	Development of a Portable Electronic Nose Device for Sensing Harvested Fruit Volatile Organic Compounds	H10
1951	Roel Trabello, Daniel Dasig Jr, Mary Ann Taduyo, Mary Ellaine Cervantes, Rudolph Val Guarin, Mengvi Gatpandan, Denver Jhon Calantoc, Eleonora Claricia and Fernando Talion	Predicting Teaching Effectiveness of University Faculty using Multiple Linear Regression	F3
1961	Melba Besa, Ace Lagman and Wilson Ii Yu	Eyes Wide Shut: An Animated Interactive Video and Podcast regarding the Sleep Quality of Young Adults	A3
1979	Jaymer Jayoma, Genevive Navales, Flocer Angelo Bustamante and Lavranz Tradio	Enhanced Ramer-Douglas-Peucker Algorithm for Efficient 2D Line Simplification	D2
1984	Daniel Dasig Jr, Rudolph Val Guarin, Mary Ann Taduyo, Fernando Talion, Eleonora Claricia, Gina Agus, Ana Belen Cuyugan and Felicisima Rafael	Examining the Role of Corporate Social Responsibility in Enhancing Mall Brand Image: A Quantitative Study in the Philippines	F4
1985	Rex Paolo Gamara, Romano Neyra, Antipas Jr. Teologo, King Harold Recto and Argel Bandala	Genetic Neural Network for Diabetes Likelihood Prediction using Risk Factors	A4
1988	Antonette Chua and Anton Louise De Ocampo	Sentiment Analysis with Translation, Intensifier, and Negation: A Hybrid Assessment Model	D2
1999	Kester Banaira, Ina Bernaga and Michael Pacis	A Modified Holt-Winter Short Forecasting Approach with consideration of Multi-Holiday Effects	F4
2020	Minerva Zoleta and Albert Einstein Zoleta	Private Text Messaging Using LoRaWAN	C3
2073	Mary Bettina Garcia, Eugene Labuac, Darrel Tristan Virtusio and Jocelyn Villaverde	LPG Monitoring System via Blynk Application using ATmega328P	C3
2121	Ira Valenzuela, Mary Clare Therese Solomon, Patricia Mae Limliman, Aryan Saphira Macua, John Raphael Yu, Elmer Dadios, Ryan Rhay Vicerra and Argel Bandala	Global Neurobotics: Integration of Artificial Intelligence and Robotics in Neurosurgical Procedures in Improved Diagnosis and Treatment	A6
2172	Angela Mae Santos, Joshua David Chua, Jeinel Cristian Santos, Flordeliza Valiente, Jhowel Concepcion, Ranil Montaril and Arnold Paglinawan	Design of a 500W Conduction Cooled Interleaved Two-FET Forward Converter With Housekeeping	C3
2265	Jesus Paguigan	Case Study: Optimization of Point-to-Point Wireless Bridge Networks for Performance and Cost to Improve Network Access for Eulogio "Amang" Rodriguez Institute of Science and Technology	C4
2458	Steve Clar, Charles Alver Banglos, Jeanette Pao, Earl Ryan Aleluya, Francis Jann Alagon, Carl John Salaan and Sherwin Guirnaldo	Cultivating Precision: Unmanned Aerial Vehicle Retrieval Enhancement through Computer Vision in Ground Robot Recovery Missions	E7
2470	Maria Jena Isabel Gusi, Enrique Mariano Perez, Lathaniel Xavier Joseph Ablan, Czaryn Diane Ompico, Julius Banayo, Francisco Munsayac, Armyn Sy, Nicanor Roxas and Nilo Bugtai	Review of Methods of Finding Muscle Torque in Lower Limb Rehabilitation	A2
2497	Adolfo Arevalo, Claro Mananquil, Ronald Pancho, Roland Simbre, Avillardo Clarin, Ellery De Leon and Rhodora Tabal	Internet Users and Secure Internet Servers Toward Economic Growth in the Developed and Developing Countries in Southeast Asia	F4
2503	Clarise Annely Duco, Jericho Gipoleo, Marc Lorenz Remolin, Carl Joshua Monreal and Eliseo Ramirez	A Framework for a Mobile and Web Platform for Barangay Remote Services, Collaboration and Disaster Response with Web Analytics in Mandaluyong City	F4

2515	Homer Co	Calibration of a Metal Oxide Gas Sensor through Static Headspace Sampling for Aldehyde Measurement	C3
2558	John Heland Jasper Ortega, Abigail Alix, Michael Camacho and Ace Lagman	Super Juan: Hybrid 2D Animation Documentary with Digital Campaign About Filipino Street Food Culture	F5
2590	Jerahmeel Coching, Adrian Jenssen Pe, Seth Gabriel Yeung, Carl Matthew Ang, Ronnie Concepcion II and Robert Billones	License Plate Recognition System for Improved Logistics Delivery in a Supply Chain with Solution Validation through Digital Twin Modeling	I2
2666	Ken Sammuel Camacho, Michael Leander Roque, Ronnie Concepcion II and Nilo Bugtai	Electroencephalography Signal Classification for Wheelchair Gradient Speed Control Using Machine Learning	A3
2679	James Patrick Acang, Gerry Contillo, Ryan Pascual, Dionisio Bucao, Nathaniel Alibuyog, Evangeline Galacgac, Macryline Manuel and Kyle Cedric Dadoy	Towards Automatic Detection of Garlic Pests and Diseases in Digital Images	H2
2750	Mary Jane Samonte and Kristel Joy Bergantiños	Clustering and Classification Analysis in Financial Reporting of Philippine Government Business Enterprises	D3
2776	Renz Angelo Aguirre, Ryoji Bernardo, Arjay Aquino, Paul Miguel Reonal, Jan Kristoffer Alminiana and Elcid Serrano	Analyzing Regional Effect of Humidity, Temperature, and Rainfall on the Volume of Rice Production in the Philippines	H2
2801	Francis Jann Alagon, Jeralyn Alagon, Joel Miano, Earl Ryan Aleluya and Carl John Salaan	Routerless Fire Evacuation Lighting Guide System using ESP-MDF and Dijkstra Algorithm	J1
2806	Francisco Munsayac Jr III, Renann Baldovino and Armyrn Sy	Review on Medical Robotics: Current Landscape and Future Prospects	A4
2949	John Heland Jasper Ortega, Ace Lagman and Roman De Angel	Evaluation of Program Completion Decision-based Recommendation System with the ISO Software Quality Model	F5
2977	Tonica Garcia, Aimee Rachel Aguilar, Juliah Faye Dela Vega, Mary Margarette Macatumpag, Mhikaella Mae Vaay, Richard Tan Ai, Ryan Vicerra, Argel Bandala and Elmer Dadios	Connecting 3D Printer to the Industrial Internet of Things (IIoT) through MQTT Sparkplug B Protocol	C4
3003	Laurence Keith Alquiza, King Harold Recto, Pocholo James Loresco and Jesús Villalobos	Comparative Assessment of Off-shore Wind Converters and Wave Energy Converters in the Philippines	B2
3057	Kristian Elijah Laurel, Ken Sammuel Camacho, Jason Española, Renann Baldovino, Nilo Bugtai, Ryan Rhay Vicerra, Argel Bandala and Elmer Dadios	An Intelligent Humidity and Temperature Monitoring System using Long Short-Term Memory Neural Network and Raspberry Pi	E3
3071	Jessie Balbin, Flordeliza Valiente, Christian Rae Dela Cruz, John Robin Gregorio, Patrick Carlo Tinaya and Joel Andrew Villarba	Bowler's Real-time Posture Assessment using Integrated Moving Body and Frame Difference with Kinect and Image Processing Algorithms	A2
3097	Mona Earl Bayono, Estrelita Manansala, Maribel Misola, Jamie Adrian Jamasali, Carl Angelo Cabahug, Johnzle Jericho Cristobal, Aira Marie Ladera and Marlon Gabriel Mercado	Flash'n Alert-Handheld Self-Defense Warning Device with Integrated Alarm System	G2
3233	Kevin Napisa, Giolo Rei Mababangloob, Marian Lubag, Ronnie Concepcion II and Marla Maniquiz-Redillas	Explainable and Interpretable Artificial Intelligence as a Service for Green Smart Cities and Communities	H2
3248	Jerome Francis Cadorna, John Patrick Cervantes, Carlos Hortinela IV and Janette Fausto	Identification of Salt Applying Image Processing and Machine Learning Techniques	E3
3252	Michael Pacis	Medium-Voltage Arc Flash Analysis and Assessment of a 30MVA Property Development in Tarlac City	C4
3258	Antonio Miguel Bautista, Margarita Bautista, Julienne Bernadette Silva, Joshua Emmanuel Torre and Melvin Cabatuan	Development of Vision-based Mobile Application for Filipino Sign Language Recognition using Machine Learning	F14

3267	Julianne Lencee Cheng, Joanne Tracey Domingo, George Nicolai Jaurigue, Jose Lazaro and John Paul Cruz	Nitrification in Aquaponics for Sustainable System in a Symbiotic Environment using Genetic Algorithm	H3
3301	Jessie Balbin, Carlos Hortinela Iv and Isaura Angelo Robles	Measurement of VOC's in Ripening Stage of Persea Americana Fruit Using Sensor Array via Raspberry Pi	H3
3307	Mara Mae Olasiman, Lester Librado, Faith Baldonado, Jeanette Pao, Charles Alver Banglos, Immanuel Paradela and Carl John Salaan	Initial Development of Buoy-based Early Warning Device for Flash Flood and Storm Surge Application	J1
3333	Phongsavanh Sengaphone, Juan Miguel De Leon, Ronnie Concepcion, Argel A Bandala, Gerardo L Augusto, Raouf Naguib, Jeremias A Gonzaga, Joseph Aldrin Chua and Laurence A Gan Lim	Design and Simulation of an End Effector for Automated Harvesting the Tomato in Siemens NX	H3
3361	Gil Joshua Umali, Pristine Lousse Villaflo, Leo Dale Villareal and Jo-Ann Magsumbol	An Overview of Nanotechnology in the Philippines	G2
3394	Sreya Etherajan	Learned Prediction for Space Debris Collision Risk and Avoidance	D3
3403	Janea Patrizia Pascua, Jhanika Fanlo, Alfonso Louis Philip Salas, John Patrick To, Susan Caluya, Angelique Lacasandile and Rogel Labanan	Hybrid Approach for Multiclass Mental Illness Classification	A4
3406	Na Xiong and Daniel Dasig Jr	Bayesian Network Risk Method for Complex System Engineering Operations	D3
3478	Stanley Glenn Brucal, Aaron Don Africa, Marla Maniquiz-Redillas, Mark Christian Felipe Redillas, Aristotle Ubando and Alvin Culaba	Electrical Power Consumption Sub-metering and Monitoring Using Arduino-Raspberry Pi via Non-invasive Wattmeter Sensor	C5
3483	Francis Balahadia and Ritz Kevin Ragel	Visual Test Framework: Enhancing Software Test Automation with Visual Artificial Intelligence and Behavioral Driven Development	F5
3517	John Heland Jasper Ortega, Ace Lagman and Roman De Angel	Analysis of a Rule-Based Suggestion Platform for Academic Program Completion Using the Technology Acceptance Model	F6
3530	Jaychris Georgette Onia and Jerome Lopena	Categorization of Mechanical Properties of 3D Printed Materials(PLA,ABS,PETG) after prolonged UV Light Exposure through UTM Testing	G1
3735	Leif Oliver Coronado, Earl John Geraldo, Ronald Joaquin Javate and Ulysses Ante	Remanufacturing and Suitability Study of 3D-printed Shafts for Maritime Application Based on Finite Element Analysis	G1
3771	Stephen John Clemente, John Michael Cuenco, Earl Jayson Gilbas, John Xandrei Go, Via Viste and Bon Ryan Aniban	Investigation of Recycled Concrete Aggregates Permeability with Varying Water-Cement Ratio and its Effects on the Properties of the Recycled Concrete Using Rapid Chloride Penetration Test	G3
3806	Jed Tan, Sheryl Francisco, Patricia Marie Bucala, Denn Charles Zafe and Ryan Richard Guadana	MaunaWika: A Web and Mobile E-learning Application for Filipino Vocabulary and Reading Comprehension	F6
3814	Jonnel Alejandrino, Ronnie Concepcion II, Alvin Culaba and Elmer Dadios	Root Phenotyping Revolution: Science-based Policy Recommendations Amidst Green Revolution 2.0's Transition from Invasive to Non-invasive Tomography	H8
3820	Yolanda Austria, Hubert Temprosa, Joshua William Cervania, Jan Louis Guerrero, Majeed Tobias and Rhyan Christian Lagunday	Wearable GPS Locator and Vital Signs Monitoring for Dogs	A5
3834	Nouran Usman, Earl Ryan Aleluya, Steve Clar, Francis Jann Alagon, Carl John Salaan and Maria Fe Bahinting	Eggplant Leaf Semantic Segmentation in Aerial Imagery for Precision Agriculture	E7
3868	Matthew Joseph Dionela, Miguel Alaán, Jaun Lato, Jasper Matthew Tan, Ronnie Concepcion II, R-Jay Relano and Argel Bandala	Optimization of a Hypergravity Platform Design for Earth-based Astrobotany Applications Using Finite Element Analysis	H10

3906	Jay Robert Del Rosario, Argel Bandala, Paolo Belano, Kyle Francis Campit, Jian Carlo Mendoza and Kobi Angelo Rasing	Development of a Microcontroller-based Smart Front Door-Lock System	J1
3925	Stig Marcson Lance Riman, Nelson Carlo Escarcha, Flordeliza Valiente, Arnold Paglinawan and Ledixor Ong	Design of an ASIC-Controlled Bidirectional Synchronous Charger-Discharger Converter with Housekeeping for Battery Backup Unit	C4
3938	Jihye Han, Eunwoo Kim, Hakmin Kim, Eojin Kim, Yeongo Kim, Yuyeon Na, Young-Jae Min, Taein Park, Hyoseon Seo, Jonghyeon Kim and Kwan-Yong Lee	Development of In-Vehicle Evaluation System for Steering Assistance Performance of Electric Power Steering	I2
3979	Joey Pangilinan, Sherwin Tachado, Ariel Sernal and Marvin Louise Carpena	Failure Analysis of Aircraft Crankshaft	G3
3994	Lorenzo Gabriel Caballa and King Harold Recto	Sustainability Analysis of Residential Photovoltaic Systems: A Life Cycle Assessment Approach	B3
4110	John Raphael Guevara, John Judilla, Logan Pulido, Ricky Umali, Ericson Dimaunahan, Reyliana Tayactac, Gawayne Escalona and Jaime Honra	Mobility Assistive Technology with Artificial Intelligence: Indoor Navigation assistance for the visually impaired using Arduino-based assistive goggles	A3
4282	Carey Louise Arroyo, Ronnie Concepcion II and Argel Bandala	Identifying the Future Trends of Bioregenerative Life Support Systems for Space Exploration	H3
4295	Jay Robert Del Rosario, Argel Bandala, Carl Patrick Boncodin, Edwin Concepcion Jr, Gier Bryant Evaristo and Bryce Erwin Ong	Development of an Automatic Shade Generation through Canopy Deployment	H9
4306	Mary Jane Samonte and Aldrin Patrick Ong	Analyzing the Impact of Artificial Intelligence in the Financial Industry: A Systematic Literature Review	F5
4361	Mary Jane Samonte, Grace Ysarese Baljon, Chester Andrew Elpa and Gregian Loe Tiu	SalesAssist: A Sales Agent Recommender System Through Buying Patterns Analysis	F6
4397	Mark Jayson Sutayco and Meo Vincent Caya	A Comparative Study of MobileNetv2 and VGG-16 Convolutional Neural Network Architectures for Identification of Medicinal Mushrooms	H4
4419	Fredelino Galleto Jr., Aaron Don Africa, Rhen Anjerome Bedruz and Marnel Peradilla	Analysis of S11 values of Planar Inverted-F Antennas utilizing ANFIS as an alternative for Microstrip Antennas	C6
4483	James Patrick Acang, Saturnina Nisperos, Wilben Christie Pagtaconan and Ralf Dela Cruz	Generating Program Recommendations to Aid in the Decision-Making of Students in Higher Education Using Non-Parametric Supervised Machine Learning	F6
4488	Kristian Elijah Laurel, Ronnie Concepcion II, Renann Baldovino and Elmer Dadios	Solving the Inverse Kinematics of a Five Axis CNC Machine Using Shallow and Deep Neural Networks	E4
4493	Megan Victoria Hillary Chua-Unsu, Jason Daniel Fortit, Jed Leonard Go, Johann Erich Go, Beatrice Megan Uy, Ronnie Concepcion II and Rhen Anjerome Bedruz	Fluid Flow-based Design of a System Housing for Electronic Nose Post-Harvest Application	H4
4514	Alex Alba, Christine-Patricia Ferreras, Patrick John Regalado, Efren Dela Cruz and Ivan Henderson Gue	Identification of Optimal Parameters Based on the Thermal Performance of an Earth-to-Air Heat Exchanger using Numerical Methods	G4
4533	Andrea Christine Eugenio, Allen Nagales, Josh Mackenzie Ong, Benedict Sauquillo, Kevin Tanguin, Danielle Christopher Lambino and Kevin Lawrence de Jesus	Traffic Simulation of the Proposed Commonwealth Avenue-East Avenue Interchange using PTV VISSIM	I2
4553	Glenn Paul Gara	Predictive Maintenance for Die Position Placement Failure on Die Attach Machines	G4
4645	Brenda Benosa, Challiz Omorog and Christine Diane Ramos	Exploring the Influencing Factors of e-Government Adoption in Rural Municipalities	F7
4661	Francis Balahadia, John Paul Miranda and Hilene Hernandez	Teachers and Students' Awareness on the Uses of ChatGPT: A Cross-Sectional Case Study	F9
4675	Laurie Lee Bathan, Ronina Tayuan and Michelle Renee Ching	Exploring Music Streaming and Song Preferences in the Philippine Music Scene: A Spotify Data Analysis Using Clustering	F7
4722	Rochelle Madulara, Earl Ryan Aleluya, Jeanette Pao, Steve Clar, Francis Jann Alagon, Carl John Salaan and Maria Fe Bahinting	Detecting Persons in River Quarry Operations: Aerial Surveillance For Flood Pre-disaster Monitoring	I5

4734	John Heland Jasper Ortega, Abigail Alix and Wilson Ii Yu	ALPAS: A Live-Action Animation Hybrid Short Film and a Website Promoting Filipino Poetry	F7
4769	Christopher Punzalan	Environmental education integration in Science E-learning: Teachers' attitudes and experiences	F8
4857	Mideth Abisado, Xiaoli Luo, Ma. Ian De Los Trinos, Mariezol Ballesteros, Fernando Renegado and Maria Carmela Francisco	Empowering Empty Nesters: An Integrated IoT and GPS-Based State Monitoring System for Enhancing Independent Living and Safety	C5
4879	Jasper John Calambro, Loven Garcia, Ana Lowela Lucas and Jocelyn Villaverde	Lora-Based Tracking System Using ATmega328P	C5
4891	Jessie Balbin, Glenn Magwili, Peregrino Maverick Lazo IV and John Rey Bognot	Development of a Vertical Agrivoltaic with Self-Powered Automated Irrigation System in a Residential Urban Area Application	H4
4951	Jasper Matthew Tan, Marian Lubag, Giolo Rei Mababangloob, Ronnie Concepcion II, Jesson Del-Amen and Marla Maniquiz-Redillas	Non-destructive Detection and Classification of Multiple Lactuca sativa Varieties with Leaf Occlusions Using Deep Learning	H4
4957	Jocelyn Villaverde, Marlou Ferrer and Julia Alexandra Macabeo	Classification of Cotton Fabric, Pineapple Fabric and Cotton Pineapple Blend Fabric with VGG16 using Keras	E4
4963	Gene Marck Catedrilla, Jefferson Lerios, Maribel Cardona and Jonardo Asor	Development of an Indoor Air Quality Monitoring System	G4
4979	Roland Simbre, Ronald Pancho, Avillardo Clarin, Rhodora Tabal and Ellery De Leon	Philippine Government Support on Urban Fish Farming Towards Sustainable Aquaculture	H5
4987	Loyd Echalar, Manuel Lanuang and Carolina Joval	Advancing Hand-Sign-Language Detection for Mute and Deaf Communication through Harris Corner Algorithm and Centroid Algorithm	A5
4999	Yolanda Austria, Rayan Capacio, Kristine May Evangelista, Charles Edward Lucero, Jolie Josiane Mukamugemanyi and Hubert Temprosa	Automated Helmet with GPS Locator, Blind spot and Impact Detection	E2
5020	Reza Omandam, Immanuel Paradela, Jeanette Pao, Steve Clar, Francis Jann Alagon, Earl Ryan Aleluya and Carl John Salaan	Localization Strategy for Suspended Tethered-Drone	E8
5046	Jessie Balbin, Sebastian Paul Uy and Royce Bumagat	Enhancing Performance and Reducing Injury Risk: Analyzing Basketball Players' Jumping Landing Form through Image Processing and Support Vector Machine Algorithm	A3
5050	Pierre Simon Barcenas, Glen Rombert Padilla and John Christian Nicdao	Harmonic Evaluation of an Asynchronous Machine with a Variable Frequency Drive using Single-tuned, 2nd Order and 3rd Order High Pass, and C-type Passive Filter via Matlab/Simulink	C5
5107	Jay Robert Del Rosario, Arciella Brienice Cirsostomo, John Ira Fidelino, Dustin Kyle Landicho, John Emmanuel Pareja and Argel Bandala	Development of a CNN-based Intelligent Traffic Control System for Emergency Vehicle Detection and Intersectional Traffic Flow	I4
5114	James Darrel Lara, Selverino Magon, Teofilo De Sagun and Anela Salvador	Requirement Analysis in a Systems Engineering Process approach to design of gas detection systems for the Philippine industries	G4
5119	Mark Joshua Vilar, Allan Aspuria, Jermaine Keith De Luna, Julia Zearine Ereneo, Frances Denielle Magno and Elcid Serrano	AlayPalay.PH: An E-Commerce Mobile Application for Cultivating Agricultural Goods and Services for Filipino Farmers	F8
5269	Joseph Aristotle de Leon, Jayne Lois San Juan, Andres Philip Mayol, Ryan Rhay Vicerra, Ronnie Concepcion II, Argel Bandala, Leonard Ambata, Jhoanne Catindig Orillo and Alvin Culaba	Educational Management Information System: A Short Review	F9
5274	Mark Angelo Purio, Abigail Delos Reyes, Daryl Khent Lorzano and John Francis Madrigal	UV-Based Computer Vision System for Early Detection and Segregation of Mango Anthracnose Disease	H5
5346	Jason Samuel Ching, Alec Franz Cresencio, Issey Gabriel Dee, Florenz Howard Domingo, Melvin Cabatuan and Jennifer Gutierrez	Development of an Appearance-based Eye Tracking System with Convolutional Neural Network Integrated in a Learning Management Application	F13

5350	Francis Ivan Consigma, Arnold Paglinawan and Charmaine Paglinawan	Enhancing Patient Healthcare Management through Radio Frequency Identification (RFID) Technology	A4
5434	Ryan Jeffrey Curbano	Optimizing the Pressing Process of BGA-FP: A Lean Six Sigma Initiative for Defect Reduction in the Microelectronics Industry	G5
5439	Mary Ann Osorio, Ronnie Concepcion II and Elmer Dadios	Multi-Source Energy Harvesting Systems: A PRISMA Approach on Energy Sources and Optimization Strategies	B2
5446	Kristine Mae Dalogdog, Arianne Elmido and Evelyn Cardoso	Effects of Organic Nutrient Solutions on the Quality and Yield of Hydroponically Grown Vegetable	H5
5456	Jayson Jueco, Wynn Gaudette Navarro, Lester Mel Libre, Zyril Mark Undalok, Clint Kyle Dingcong, Marvin Radaza, Ferdinand Batayola, Wilen Melsedec Narvios and Xavier Julian Fernandez	On Labeling Anomalous Load Data using Time Series-to-Image Encoding and K-Means Clustering Method with Historical Ground Truth Evaluation	D4
5463	Aemilia Jasmine Cleopatra and Irfan Rifai	Exploring Supports and Technology Available for Indonesian Urban Students in Learning English	F8
5482	Jerahmeel Coching, Adrian Jenssen Pe, Seth Gabriel Yeung, Wynnezel Wayne Naoto Akeboshi, Allysa Kate Brillantes, Immanuel Jose Valencia, Alexis Fillone, Robert Billones and Elmer Dadios	Merged Application of YOLOv7 Object Detection and Deep Text Recognition for Four-Wheeled Vehicle License Plate Recognition	I2
5489	Reylwin Caña, Rozanna Dixie Berbano, Prince Sarmiento, Jocelyn Amor and Rex Paolo Gamara	Household Food Waste Monitoring System Using Convolution Neural Networks	E4
5496	Geliza Marie Alcober, Teodoro Revano Jr., Manuel Garcia, John Benedic Enriquez, Beau Gray Habal and John Byron Tuazon	HelpTech: Elevating School Operations with Automatic Ticket Categorization through Natural Language Processing	E3
5525	Stanley Glenn Brucal, Aaron Don Africa, Darlene Alyssa Abaluna, Ara Jyllian Abello, Joaquin Miguel Lalusin, Aristotle Ubando, Alvin Culaba, Marla Maniquiz-Redillas and Mark Christian Felipe Redillas	A Study on Sensitivity Analysis using MATLAB of Muscle Reflex and Thermal House Models	A5
5550	Melody Mae Maluya, Earl Ryan Aleluya, Steve Clar, Francis Jann Alagon, Carl John Salaan, Joel Opon and Maria Fe Bahinting	Rural Road Pavement Panel Detection with Unmanned Aerial Vehicles	I5
5573	Neiconel Bandala, Angel Emmanuel Cruz, Angelo James Dejan, Sean Frederick Cruz, Mackleine Espino, Chauncey Oswald Thomas Plaza and Elcid Serrano	Identifying Annual Consumer Homestay Activity of Top-Rated Airbnbs through Simulation and Modelling	G7
5590	Elisa Malasaga, Angelo Arguson, John Kenneth Andales, Shaneth Ambat, Rhonnel Paculanan and May Florence San Pablo	Analyzing Machine Learning Algorithm Performance in Predicting Student Academic Performance in Data Structures and Algorithms based on Lifestyles	F7
5600	Ma. Corazon Fernando and Geliza Marie Alcober	Books4U: A Book Review Platform with Recommendation System for FEU Tech Library using Association Rule Mining and Rating-based Collaborative Filtering	F8
5603	Einstein Yong, Luigi Carlo De Jesus, Crishiel Paige Villanueva, Rovic James Lupera, Jason Maxdale Escalada and John Ivan Arcinue	Autonomous 2D Mapping of Interior Spaces Utilizing LIDAR Data Used for Asia Pacific College RamiBot: Concierge Robot	E5
5625	Dominic Narciso T. Ronquillo, Jose Mari S. Selda and Meo Vincent C. Caya	Classification of Onion Species in the Philippines Using a Convolutional Neural Network (CNN)	H6
5667	Venus Eleveccionado, Mike Marave, Julianne Kaye Matundo, Ivan Dave Torrecampo, Jay Villan, Nelson Jr. Benares and Noel Gunay	Predicting Photovoltaic Generation Using a Hybrid Model Combining Autoregressive Integrated Moving Average And Support Vector Regression	J2
5685	Isagani Villamor, Mary Lee Apelo and David Angelo Ascan	Philippine Coin Detection System Using Mask R-CNN Algorithm	E2
5744	Kurt Manalo, Matthias Andrew Reyes, Christian Benjamin So, Carlos Louis Sobrevilla, Harley Ramone Tesorero and Elcid Serrano	Assessing the Contribution of Energy Production and Consumption to CO2	B3

5761	Jessie Balbin, Gia Mae Rapio and Bryant Baldivicio	Gesture Translation Device using Flex Sensors, Accelerometer and Gyroscope with Cloud-based Mobile Application	C6
5762	Ria Marie Cordova, Dj Michaelangelo Gunay, Mill Christian Gunay, Chain Rhoida Diomahali and Noel Gunay	A Deep Learning-Based License Plate Recognition for Tricycles in General Santos City	J2
5788	Estrelita Manansala, Mona Earl Bayono, Nino Pilueta, Nino Merencilla, Dexter Ablaza, Justine Kate Flores, Jayve Perillo and Allysson Reyes	IoT-Based Energy Management and Power Outage Detection in Commercial Buildings	B3
5869	Ethyl Joy Badiang, Chrizyl Mae Maglangit, Francis Jann Alagon, Earl Ryan Aleluya, Stephen Haim, Eduardo Jr Piedad, Carl John Salaan and Steve Clar	Point Cloud Transfer using Dynamic Wireless Mesh Network	C6
5919	Moises Jardiniano, Rotsen Abella, Apple Mae Bugtay, Karl Michael Piineda, Zoe Ann Reynoso, Benjie Anthony Villanueva, Jamie Adrian Jamasali and Mona Earl Bayono	(Digital) Reading Free Vocational Interest Inventory Testing Tool	F9
5965	Jessie Balbin, Carlos Hortinela IV, Janette Fausto, Mark Anthony Nañoz, Exequiel Bilog and Tracey Antaeus Gutierrez	Common Mold Classification using Histogram of Oriented Gradient and Convolutional Neural Network	E4
6042	Jonalyn Joy Labayne, Loyd Echalar and Alejandro Jr. Matute	Efficiency Improvement in Parking: A Waterfall Model-based Approach for Testing Online-based Parking slot reservation system	I3
6104	Pocholo Loresco, Gerhard Tan, Rogelio Aniez Jr. and Raymond Joseph Meimban	An Adaptive Neuro-Fuzzy Model for Energy Efficiency of Philippine Telecommunication Macro Cell Sites based on Power Usage Effectiveness	C6
6107	Christopher Nilo Caysido, Ezekiel Mariano and Dionis Padilla	Deep Learning-Based Classification of Bivalve Mollusk Species using MobileNetv3 Architecture	E1
6223	Daniel Dasig Jr, Ana Belen Cuyugan, Eleonora Claricia, Rudolph Val Guarin, Mary Ann Taduyo, Fernando Talion and Edmongino Camacho	Evaluating the Effectiveness of University and Local Government Unit Collaboration in Community-based Development Programs	F10
6231	Ivan Roy Evangelista, Argel Bandala, Alvin Culaba, Ronnie Concepcion II and Elmer Dadios	Technology Adoption: A Policy-centric Analysis of the Philippines' Preparedness to Embrace Conversational AI	E6
6254	Jonnel Alejandrino, Ronnie Concepcion II, Argel Bandala and Elmer Dadios	Bioimpedance Spectroscopy Tool with Embedded Hybrid PCA-SVM Model for Post-Harvest Carrot Decay Detection	H9
6303	Rosemarie Pellegrino, Noel Linsangan, Rod Labarete, Jose Michael Ortiz and Sherwin Dan Morelos	Wheelchair Design for Easier Transfer of PWDs Between Wheelchair and Bed Using ATmega328P Microcontroller	A2
6308	Faith Baldonado, Erman Marajas, Guddie Renz Besin, John Ralph Cababat, Janna Victoria Joromat, Ahmed Akbar Lactanin, Nurfatma Macapodi, Jonathan Solano and Evan Socrates Yap	PLC-Based Electro-Pneumatic Cylindrical Robot with Color Object Detection and Vacuum End Effector for Material Handling Trainer	G6
6312	Jayson Rogelio, John Ray Mericuelo, B-Jay Latigo, Ronie Alamon, Joein Lucas, Isidro Millo and Francisco Dime	Finite Element Analysis and Modeling of a Hydraulic Wire Mesh Rounder and Efficacy of I-Beam Reinforcement in Wire Mesh Mold Beds	G5
6341	Ronald Pancho and Rhodora Tabal	Applied Tools in Leadership Practices for Creating Extraordinary Organizations in Public Administrations	F10
6366	Ronald Barriga, Ronald Pancho, Leo Benjamin Jerusalem, Roland Simbre, Avillardo Clarin, Ellery De Leon and Mercedito Tambalque	Service Quality of the Admission Office of a Private Higher Education Institution	F10
6391	Pamela Nicole De Guzman, Arnold Paglinawan and Charmaine Paglinawan	Machine Learning Based Pothole Detection and Alert System Using Arduino Onboard Accelerometer	D3
6419	Newton John Suganob, Daeuk Kim and Ronnie Concepcion II	Material Selection for an Adjustable Portable Grab Handle (APoGH) Device through Analytical Hierarchy Process	G5

6550	Seth Gabriel Yeung, Jerahmeel Coching, Adrian Jenssen Pe, Richard Josiah Tan Ai, Ira Valenzuela-Estropia, Robert Billones, Elmer Dadios, Alexis Fillone and Immanuel Jose Valencia	Expedition of Bakery Processes for Increased In-Store Productivity through a POS Object Detector Module for Pastries	G5
6577	Ronaldo A Juanatas and Teodoro F Revano Jr	Technology Management Framework of Technology-Enabled Learning and Teaching Ecosystem of Higher Education Institutions (HEIs)	F10
6617	Stanley Glenn Brucal, Aaron Don Africa, Marla Maniquiz-Redillas, Mark Christian Felipe Redillas, Aristotle Ubando and Alvin Culaba	Electrical Power Consumption Analysis using Linear Regression Analysis and Rough Set Theory	B3
6628	Timothy Scott Chu, James Dominic Go, Neal Garnett Ong, Carlo Rafanan, Brian Tan, Alvin Chua, Candy Espulgar and Neil Justin Romblon	Development and Evaluation of a Webcam-Based Gaze Control System for Mobile Manipulator	E7
6652	Angelique Lacasandile, Glendora Tiu, Erika Mae Valencia, Rachelle Marcoso and Adrienne Bleu Canivel	Revolutionizing Higher Education Internship: A Development of a Web-Based Platform to Improve the Relationship between Internship Seekers, Employers and Educational Institutions	F11
6654	Amor Ellares and Noel Linsangan	Implementation of LoRa Technology in the Development of Web-based Air Particulates Monitoring and Advisory System	C7
6673	Jessie Balbin, Sebastien Daryl Camat, Karl Danielle Magalona, Jeneil Paulo Rosete and Vincent Nico Valdez	Determination of Condition of Mussel in the Market Using Electronic Nose through Principal Component Analysis	E5
6701	Elmer Dadios, Robert Kerwin Billones, Alvin Culaba, Marlon Era, Laurence Gan Lim, Alexis Fillone, Selina Nicole Catedral, Ginalyn Cruzada, Nicanor Roxas and Noel Gunay	Transport Infrastructure Impacts Calculation using Quantum Geographic Information System (QGIS) for Smart Sustainable Cities	I5
6705	Samantha Baguioi, Karelle Mizzy Bersabal, Jimuel Cacayan, Alliya Lley De Guzman, Jeremy Francisco, Rochelly Miguel Sabiñano and Elcid Serrano	The Different Factors for Students to Consider in Seeking a Suitable University	F11
6748	James Patrick Acang, Gerry Contillo, Ryan Pascual, Dionisio Bucao, Nathaniel Alibuyog, Evangelina Galacgac, Macryline Manuel and Kyle Cedric Dadoy	Mitigating Garlic Pests and Diseases Using Knowledge-Driven Decision Support System	H6
6781	Brenda Benosa, Joseph Jessie Oñate, Challiz Omorog, Rosel Onesa, Kaela Marie Fortuno, Ian Benitez, Keith Marlon Tabal, Philip Alger Serrano, Ichelle Baluis and Freddie Prianes	Project Apaw: Spatiotemporal Forecasting of River Flood using Deep Learning	I3
6809	Earl John Flores, Jeremias Gonzaga, Gerardo Augusto, Joseph Aldrin Chua and Laurence Gan Lim	Deep Learning-Based Vision System for Water Stress Classification of Lettuce in Pot Cultivation	H5
6811	Ronish Ramani, Dhruv Trivedi, Jeel Talaviya, Anjali Diwan and Jennifer C. Dela Cruz	K-Nearest Neighbors in Cardiology: A Promising Tool for Heart Disease Prediction	A6
6841	Salvador Gelilang, Francis Dime, Jayson Rogelio, Ester Pepito, Carmen Asor and Sharyjel Cayabyab	Characterization of Pili Nut Shell (Canarium Ovatum Engl.) as Potential Additive for 3D Printing Filaments	G6
6847	Jun Mata, Charlie Taclendo, Olga Joy Gerasta, Vannie Joy Resabal and Jerson Orejudos	Parametric Optimization of a Frameless High-Rise Structure using Genetic Algorithm	I3
6878	Jonardo Asor, Sherwin Sapin and Myra Paicaglino	Development of Web-based Management System for Fingerlings Distribution and Survival Rate Monitoring	F11
6909	Charmaine Paglinawan, Bjorn Christopher Delos Santos, Dale Janry Serrano and Arnold Paglinawan	Multiple Output Deskhub using Resonant Inductive Coupling	F11
6939	Karl Marx Roxas, Vincent Regala, Maura Elaine San Roque, Karina Dela Cruz and Ryan Richard Guadana	Ecotopia: A Parallax Enabled Website For Climate Change Awareness with Interactive Mini Arcade Game	B4

6953	Sebastian Paul Uy, Royce Bumagat and Jessie Jaye Balbin	Detection of Jump Landing Performance of Basketball Player Using Image Processing and Support Vector Machine	E8
7071	Jay Villan, Robertson Mantalaba, Robert James Diaz, Chris Dave Albios, Venus Elevencionado, Nelson Benares and Noel Gunay	Dust Impact Assessment on Micro Solar Voltage: A Deep Learning-Enabled Prediction Approach	J3
7099	King Harold Recto, Rex Paolo Gamara and Romano Neyra	From Model to Reality: An Extended Examination of the Dynamics of the Energy Trilemma Scores in Post-Pandemic Energy Consumption, Economic Growth and Emission Reduction Shifts in the ASEAN	B4
7133	Angelo Arguson, Shirley Moraga, Dennis Gonzales and Albert Vinluan	Tinkering behavior detector using Multiple Linear Regression: Development of Intelligent tutoring system for Novice C programmers	F12
7152	Mary Grace Ann Bautista, Newton John Suganob, Ronnie Concepcion II, Argel Bandala and Elmer Dadios	Automated Cooking Systems: Benefits, Challenges, and Future Directions	G6
7284	Ma. Corazon Fernando and Maria Vicky Solomo	Mediskolar: A Web-Based Scholarship Management System with Profile Analysis Using Analytical Hierarchy Process (AHP) and Decision Tree Algorithm for Marikina City	F12
7362	Earl Levi Parel, Gerzon Jil Miranda and Ernesto Jr. Vergara	Smart Vehicle Safety System with Alcohol and Drowsiness Detection, Eye Tracking, and SMS Alert System	G7
7379	Trish Ann Danielle Aguarin, Vienn Rowen Balcita, Anna Margarita Escobar, Jodel Benedict Muñoz, Melchizedek Alipio and Ronnie Concepcion II	Portable Piezoelectric-Triboelectric-Electromagnetic Triple Hybrid Floor Mat Generator	B4
7447	Ryan Ebarido and Miriam Louella Fermin	Sociotechnical Barriers to Data Privacy Compliance in Philippine Healthcare	A6
7464	Peter Laurence Valencia	Establishment of a Centralized Policy Framework for IT/IS Governance based on a PCDA method	F14
7530	Crisanto Gulay and Wilson Suyat	Development of Android Application for Plant Symbiosis Recognition Integrating Convolutional Neural Network	F12
7547	Maurice Benjamin Mortera, Francis Gabriel Herrera and Conrado Ostia Jr.	Application of Support Vector Machine Algorithm in Real-time Bearing Fault Diagnostic Model for Single-phase Induction Motor using Hilbert-Huang Transform as Feature Extractor	D4
7552	Jose Miguel Custodio, Ronnie Concepcion II, Jane Roche and Argel Bandala	In Silico Root Trait Phenotyping for Maize in C-K Deficit and Toxic Conditions Using Convolutional Neural Networks	H6
7586	Mikaela Pauline Drapeza, Jacky Angel Jocson, Sharaine Obligado, Cherish Downer Sabandal, Jenny Calot, Rodelio Antonio Jr. and Kevin Lawrence de Jesus	Solar Photocatalytic Reactor Design for the Degradation of Methylene Blue in Water using Biochar-Supported TiO ₂ -based Nanocomposites	B4
7596	Anthony Li John Velasquez, Ira Valenzuela, Ronnie Concepcion II and Robert Kerwin Billones	Analysis of Global Post-Harvest System Innovation Ecosystem Using Oxentia's Element's Review	H6
7607	Manuel Garcia, Teodoro Revano, Renato Maaliw III, Pitz Gerald Lagrazon, Arlene Mae Valderama, Ari Happonen, Basit Qureshi and Ramazan Yilmaz	Exploring Student Preference Between AI-Powered ChatGPT and Human-Curated Stack Overflow in Resolving Programming Problems and Queries	F13
7610	Ken Sammuel Camacho, Kristian Elijah Laurel, Ronnie Concepcion II and Nilo Bugtai	Material Selection and Environmental Impact Assessment of 3D Printing Wrenches	G6
7617	Gian Mark Pulgar, Allieson Ilaog, Jan Guiller Vergara, Ron Andrei Soriano, Christian Aldwin Canlapan and Apple Gay Raquiza	Use of Integrated Microsoft 365 and Power Platform in the Processing and Monitoring of On-the-Job Training (OJT) Program	F13
7649	Allen Gabriel Encabo, Cyriel Jam Ramos, Jezreel Samson, Jorel Santiago, Lady Lyn Escarises, Leslie Ann Pauline Manaoat and Kevin Lawrence de Jesus	Root Zone Technology: Potential Cost Savings in Using Chrysopogon Zizanioides for Filtration of Wastewater for Domestic Flushing	B5



7655	Teodoro F Revano Jr, Geliza Marie I Alcober and Manuel B Garcia	Maximizing Subscriber Base Growth Through Door-to-Door Sampling Caravan: A Case Study of DITO Telecommunication	F13
7717	Collien Princess Pepito, Earl Ryan Aleluya, Francis Jann Alagon, Steve Clar, Jared Jan Abayan, Carl John Salaan and Maria Fe Bahinting	Mask, Hairnet, and Handwash Detection System for Food Manufacturing Health and Safety Monitoring	J1
7743	Fredelino Galleto Jr., Aaron Don Africa, Rhen Anjerome Bedruz and Marnel Peradilla	Classification Analysis of Microstrip Antennas for 700, 2600, and 3600 MHz frequencies based on Adaptive Neuro-Fuzzy Inference System	C7
7801	Matthew Hendric Chua, Alfonso Gabriel Claros, Cedric Jared Niu, James Florence Santos and Miriam Bongo	An interplay of chair dimensions, anthropometric measures, posture, and comfort among students	G7
7910	John Heland Jasper Ortega, Melba Besa and Abigail Alix	DoeWell: An Interactive Video and Interactive Workbook as Behavioral and Emotional Assessment of Early Adolescents	A6
7936	Sane Souvanhnakhoomman and Alvin Chua	Design and Analysis of a Novel Multirotor Structure Using Generative design and Finite Element Analysis	G7
7955	Jhilsean Brix Nimrod G. Olmedo, Cherry Jane O. Costelo, Dauneca Ann Y. Brigaste, Evelyn A. Cardoso, Rodrigo C. Baño, Maria Lina A. Dollete, Abbygail B. Palmes, Roxcella T. Reas, Dennis C. de Paz, Analy N. C. España and Alvin B. Culaba	The Performance of Organic Nutrient Solutions in Hydroponic Vegetable Production: Inputs for Process Quality Control	H7
8083	Kent Ray Aduca, Dante Silva and Russell Diona	Prediction of Construction Delays in Road Projects using a Particle Swarm Optimization (PSO) – Artificial Neural Network (ANN) Model	I3
8222	Jaafar Omar, Earl Ryan Aleluya, Steve Clar, Jeanette Pao, Carl John Salaan, Maria Fe Bahinting and Joel Miano	Development of A Wireless Sensor Node for Storage Bin Volume Measurement	C7
8242	Ronnie Concepcion II, Carlo Cabaccan, Jullian Dominic Ducut, R-Jay Relano, Jonnel Alejandrino, Ronnel Agulto, Argel Bandala, Roslina Mohamad, Elmer Dadios and Alvin Culaba	Interconnectedness of Circular Economy, Artificial Intelligence and Vertical Farming as a Technosignature Model for Sustainable Space Food Production	H9
8266	Rosemarie Pellegrino, Jonathan Morales M. Baguisi, Russell James P. Barte, Kent Johnric M. Sardina and Noel B. Linsangan	PID-Controlled Infrared Heater for Drying Mangoes with Alarm and Load Sensor Using ATMEGA328P	H7
8290	Jeshih Myr Paule, Jade Roca, Kyran Subia, Thad Jacob Tiong, Marielet Guillermo and Donabel de Veas-Abuan	Integration of AWS and Roboflow Mask R-CNN Model for a Fully Cloud-Based Image Segmentation Platform	D4
8306	Rosalina Estacio, Carl Anne Hitois, Dianne Pascual, Alyzza Mariz Tubale and Milisa May Tamares	Development of Contactless Anthropometric Body Measurement System Using MediaPipe	A2
8379	Francisco Dime, Siew Yuk Tat, Cristian Della, Jayson Rogelio and Marita Natividad De Lumen	Utilizing Simulation-Driven Finite Element Analysis for Optimal Propeller Design of a 1kW Pico-Hydroelectric Turbine	B5
8380	Claro Mananquil and Adolfo Arevalo	Impacts of Micro-Learning on Student's Performance During the COVID-19 Pandemic: Evidence from the Philippines	F12
8434	Analy N. Yumang, Diego Rubia and Kyle Philippe Yu	Comparison and Analysis of Yolov5 and Yolov4-Tiny in Fruit Sample Detection	H7
8548	Leonard Ambata, Rae Elise Dalangin, Ivan Alexis Duaqui, Joshua Vincent Saavedra and Mikaylo Junell Veloria	Integration of License Plate Detection and Recognition with GPS Implementation to a Moving Vehicle for Traffic and Activity Monitoring	I4
8557	Luis Antonio Orbegoso Moreno and Edgar David Valverde Ramirez	Direct calculation of the jacobian matrix: Leveraging Dual Numbers in Robot Forward Kinematics	E8
8576	Jobert Anthony Berja, Aisley Giuseppe Creo, Harlyne Joyce Velasco, Myrone Troy Alindayu, Ryan Richard H. Guadana and Ronnel Palenzuela	Interactivity Development in Video Production Relating to Climate Action	B5
8647	Syljie Cañete, Ma. Joyce Catajan, Jomark Amante, Razenbelle Ureta and Rogel Labanan	A Framework for Exploring Crime Patterns and Insights in Quezon City: Analyzing Philippine	D4



		News Articles Using Machine Learning Technique	
8650	Georgie Ann Regencia and Noel Linsangan	Morlet wavelet-based feature extraction algorithm with Fuzzy logic for an Iris Recognition System for Non-ideal images	E6
8658	Reggie Gustilo, Anna Sheila Crisostomo and Carl Christian Chaguile	Classification of Diseases based on the Symptoms using Machine Learning	A5
8658	Reggie Gustilo, Anna Sheila Crisostomo and Carl Christian Chaguile	Classification of Diseases based on the Symptoms using Machine Learning	J3
8754	Kate Francisco, Ryan Rhay Vicerra, Ronnie Concepcion II, Argel Bandala, Arvin Fernando and Marielet Guillermo	Soil Type Factor Estimation Based on ERT Apparent Resistivity Using Supervised Machine Learning Models	B5
8855	Jessie Balbin, Carlos Hortinela Iv, Janette Fausto, Ian Gabrielle Bautista and Renz Denise Calangi	Detection of Measles using Raspberry Pi 3 with Support Vector Machine	E6
8888	Christian Rae Cacayurin, Juan Carlos De Chavez, Mariah Christa Lansangan, Chriscell Lucas, Justine Joseph Villanueva, Ronnie Concepcion II, R-Jay Relano and Argel Bandala	An Engineered Design of 3-axis Clinostat for Simulated Gravity Experiments in Astrobotany	H10
8959	Adrian Jenssen Pe, Jerahmeel Coching, Wynnezel Wayne Naoto Akeboshi, Seth Gabriel Yeung, Robert Billones, Nicanor Jr. Roxas, Alexis Fillone and Elmer Dadios	Data Modeling and Architecture for a Machine Learning-Based Vehicle Counting and Classification System	D5
8963	Yolanda Austria and Dylan Josh Lopez	The Compostinator: An Automatic Community Composting Apparatus with Waste Segregation Using Object Detection	G8
9065	Isaac Isles, Armand Gabrielle Castro, Justine Richard Cosme, Rangie Faye Pagsolangan, Jullia Ramielle Ulanday, Ronel Ramos and Manuel Garcia	Stella Vee: An Isometric Action-Adventure Video Game Raising Awareness of Issues Surrounding Intellectual Property and Copyright	D5
9121	Rex Bringula, Maria Mercedes T. Rodrigo, Jane Mangubat, Maristela Roxas, Jayvee Marcaida Lizada, May Eliano, Jeleazar Pacolor and Jan Carlo Ramos	Students' In-Game Behaviors in a Web-based Grade 5 Mathematics Mobile CSCL Environment: A Comparison between Adaptive and Non-Adaptive Versions	F14
9170	Charmaine Paglinawan, Therese Marie Mactal, John Allan Kurt Bantegui and Arnold Paglinawan	A Raspberry Pi-based camera for Determining the Maximum Distance of Face Recognition Using HLBPH as the algorithm	E7
9249	Angelique Lacasandile, Glendora Tiu, Erika Mae Valencia, Rachelle Marcoso and Adrienne Bleu Canivel	A Comparative Study on Internship Systems of Asian Universities: Educational Elements in Placement Software from Universitas Komputer Indonesia, Universiti Teknologi MARA of Malaysia, and National University-Manila of Philippines	F14
9255	Davine Kyle Dollente, Jasper Marck Labay, Kianne Sebastian Macatuno, Trixtan Dwayne Viray, Ramir Ramirez and Manuel Garcia	Anito: Battle of the Gods - Exploring Philippines' Cultural Mythical Tales in a Cooperative and Competitive Fighting Video Game	F15
9321	Danielle Joseph Buban, R-Jay Relano, Ronnie Concepcion II and Alvin Culaba	Cradle-to-Gate Environmental Impact Assessment of a Polylactic Acid Polymer-Based Adjustable Air Stone for Adjustable Microbubbles Generation	G8
9341	Franz Joseph Libao, Nicole Ann Portia De Luna, Trinmar Boado and Kim Paulo Orquia	IoT-Based Monitoring of KE-55 Milling Machine for Improved Machine Shop Operations	C7
9434	Ramon Vann Cleff Raro, Miguel Asido, Philip Martinez, Jan Daryl San Juan, Kent Jasper Capillo and Ruel Mark Cadubla	Development of an Intelligent Road Safety Information Exchange and Traffic Control System for Philippine Road Networks	I4
9508	Daeuk Kim, Newton John Suganob and Ronnie Concepcion II	Design and Prototyping of an Eco-Friendly Adjustable Portable Grab Handle (APoGH) Device through Additive Manufacturing	G8
9529	John Mel Bolaybolay, Earl Ryan Aleluya, Steve Clar, Francis Jann Alagon, Cherry Mae Villame, Jeanette Pao and Carl John Salaan	YOLO Instance Segmentation Model Comparison for Drone Detection as Visual Servo Control Marker	E5
9623	Jamaica Mae Pepito, Earl Ryan Aleluya, John Mel Bolaybolay, Francis Jann Alagon,	Ground Robot Detection for Collaborative UAV-UGV Alignment and Retrieval Operations	E8

	Steve Clar, Jeanette Pao, Carl John Salaan, Sherwin Guirnaldo and Maria Fe Bahinting		
9628	Ryan Himongala, Earl Ryan Aleluya, Steve Clar, Jeanette Pao, Francis Jann Alagon, Carl John Salaan and Rabby Lavilles	Design and Development of a Mobile-Based Data Acquisition System for Aerial Bridge Inspection	I5
9696	Yolanda Austria, Dexter James Cuaresma, Mark Noe Christian Caadyang, John Thomas Carlos and Mark Gregg Villegas	Slope Movement and Saturation Data Management System with Data Visualization	D5
9746	Jessie Balbin, Franz Lord Memije, Alexander Pineda, Jonaliza Guillermo and Ramon Garcia	Remote Monitoring of Drip Fertigation System using Tree-based Wireless Sensor Networks and Multispectral Imaging	H8
9865	Gretchie Gara	Fish Species Diversity and Composition in Mangrove Ecosystem at Sta. Cruz, Davao del Sur	H8
9906	Ronnet Altuna, Alezzandrei Ericka Balbuena, Kenneth Gunay, Angelique Lacasandile, Avonn Nova and Lilibeth Diaz	Fostering Alumni Involvement and Professional Advancement: A User-Centric Perspective on the National University Alumni Portal	F15
9931	Mary Jane Samonte, Suping Liu and Yanan Li	Using Asymmetric Attention Mechanism Access Class Barring with Gated Recurrent Unit for an End-to-end Image Compression	D5
9955	Adulfo Arevalo	Threshold of Inflation on Economic Growth In Southeast Asia: Bivariate Polynomial Regression	F15
9966	Earl Levi Parel, Gerzon Jil Miranda and Ernesto Jr. Vergara	Detecting Alcohol-Induced Drowsiness in Four-Wheeled Vehicles: An Eye Tracking and MQ3 Sensor-based Approach with Arduino Uno and Raspberry Pi, Integrated with SMS Notification System and GPS	G8
9981	Arlene Mae Valderama, Aris Pulumbarit, Manuel Garcia, Felix Jerome Dela Fuente, Mikaela Ashley Perlado, Kyle Francis Edison Atienza, Kurt Noriz Liwanag and Teodoro Jr. Revano	Sprout It: A Data-Driven Approach to Mushroom Farming with Batch Tracking, Yield Calculation, and Harvest Optimization	H8
9981	Arlene Mae Valderama, Aris Pulumbarit, Manuel Garcia, Felix Jerome Dela Fuente, Mikaela Ashley Perlado, Kyle Francis Edison Atienza, Kurt Noriz Liwanag and Teodoro Jr. Revano	Sprout It: A Data-Driven Approach to Mushroom Farming with Batch Tracking, Yield Calculation, and Harvest Optimization	J3