



Hosted by:

Institute of Industry and Academic Research Incorporated

In collaboration with:

Northwestern University

January 16, 2025 • Virtual Conference

CONFERENCE PROGRAM



Opening Program

9:00AM Philippine Standard Time

Prayer

The IIARI and ISRC

Welcome remarks

Ms. Stephanie Pizzaro

Northwestern University, Philippines
Conference Junior Chair

Message

Ms. Faith Joangelica E. Santiago

Northwestern University, Philippines
Conference Chair

Introduction to keynote speaker

Keynote Address

Dr. Zvisinei Moyo

*Senior Lecturer, University of Johannesburg
South Africa*

Open Forum

Presentation of partners & collaborators

Guidelines and Decorum

Mr. Leo Janry T. Tumbagahan

Master of Ceremonies

Break – 10:15AM – 10:20AM

Plenary Session

10:20AM Philippine Standard Time

Introduction to plenary speaker 1

Plenary address

Dr. Eric S. Parilla

*Vice President for Research, Community, Social
Development and Internationalization
Northwestern University, Philippines*

Open Forum

Introduction to plenary speaker 2

Plenary address

Dr. Faiza Kiran

*Assistant Professor, National University of
Science and Technology, Oman*

Open Forum

Mr. Leo Janry T. Tumbagahan

Master of Ceremonies

Lunch Break – 12:00PM – 1:00PM

Paper Presentations

1:00PM Philippine Standard Time

Parallel Session 1: Mr. Dave Llota

Session Chair

TIME	PAPER TITLE
Track: Business, Management & Accounting	
1:00 - 1:10	Popularity of internet advertising on business operations among selected convenience stores <i>Presenter: Mae Lhorry Bhie M. Cordeta</i>
1:10 - 1:20	Lived experiences of buffet administrators amidst commodity price volatility in Davao Region <i>Presenter: Mhele Toyongan</i>
Track: Science, Technology, Engineering & Mathematics	
Cluster 1	
1:20 - 1:30	PurIrriGrow: an automatic desalination and irrigation system <i>Presenter: Rain Aerial Ventabal</i>
1:30 - 1:40	An enhancement of the Eigenface algorithm using weber local descriptor applied in attendance management system <i>Presenter: Amyr Edmar L. Francisco</i>
1:40 - 1:50	Enhancement of Convolutional Neural Networks (CNNs) algorithm for application form using GlobalMaxPooling in document verification system <i>Presenter: Fabien Georgette Lapuz</i>
1:50 - 2:00	Enhancement of K-Means algorithm for analyzing earthquake occurrence pattern in the philippines <i>Presenter: Sean Marie B. Bayono</i>
2:00 - 2:10	Robotic fall prevention and mobility assistance system <i>Presenter: Sage Raijin E. Cañizares</i>
2:10 - 2:20	Enhancement of Seam Carving algorithm for optimized content-aware image resizing application <i>Presenter: Eliza Joyce B. Lim</i>
2:20 - 2:30	Innovative Mobile Evaporative Cooling System for Agricultural Crops (IMECSAC) <i>Presenter: Charles Benedict V. Fernandez</i>
2:30 - 2:40	OPEN FORUM

2:40 - 2:50 BREAK

Track: Science, Technology, Engineering & Mathematics

Cluster 2

- 2:50 - 3:00 Factors influencing awareness of family caregivers on the potential health benefits of papaya (*Carica papaya*, 1753) leaves in dengue fever management
Presenter: Daphne Lizet B. Tollos
- 3:00 - 3:10 Efficacy of ligas (*Semecarpus cuneiformis* Blanco) ground leaves and virgin coconut oil (*Cocos nucifera* L.) as a topical remedy for eczema
Presenter: Zhiena Jhoy D. Caldito
- 3:10 - 3:20 The effectiveness of malunggay (*Moringa oleifera*) branch cellulose for sustainable bio-seedling pot production
Presenters: Christian G. Requinto & Jay Lord L. Elsisura
- 3:20 - 3:30 SAWDCOCOHUSKS: Innovative thermal efficiency and practical feasibility of sawdust-coconut husks (*Cocos Nucifera*) wall tiles as advanced thermal insulators
Presenter: Sophia Marie I. Jaguio
- 3:30 - 3:40 Farm to Flame (F2F): Enhancing biogas production from cow manure using rice husks and corn husks as accelerants
Presenter: Dennona Ambher Marcaida
- 3:40 - 3:50 LEMMOR: Lemongrass (*Cymbopogon citratus*) and Malunggay (*Moringa oleifera*) as an insecticide spray against yellow fever mosquito (*Aedes aegypti*)
Presenters: Ranna Noreen J. Olacao, Aliyah Mae R. Borcena, & Ashley Nicole B. Tayag
- 4:00 - 4:10 Bitrosecide: Bitter gourd seeds (*Momordica charantia*), rosemary leaves (*Rosmarinus officinalis* L.), saba (*Musa balbisiana* colla) and señorita (*Musa acuminata* señorita) banana peels as an organic insecticide against American cockroach (*Periplaneta americana*)
Presenters: Jacob I. Baluyut, Marc Clifford T. Someros, Princess Candize & Norille C. Delmendo
- 4:10 - 4:20 Eradequine: Atis (*Annona squamosa*) leaves and coconut milk against human head lice (*Pediculus humanus capitis*)
Presenter: Fritzie Lorraine D. Mapang
- 4:20 - 4:30 R.A.N.G.E.R: Rescue and Navigation Ground Exploration Robot for Post-earthquake Operations
Presenters: Muhammad Assad Ullah R. Bhatti, Melvin Rhey R. Casupanan, Kristelvine B. De los Santos, Elmer Jhon P. Espejo & Georgina M. Temblique
- 4:30 - 4:40 OPEN FORUM
- 4:40 - 4:45 WRAP UP

Parallel Session 2: Mr. Ronald E. Almagro
Session Chair

TIME	PAPER TITLE
Track: Education	
1:00 - 1:10	Utilization of Avaterrific Quest in enhancing reading comprehension skills of grade 8 students <i>Presenter: John Renden A. Laudencia</i>
1:10 - 1:20	Developing soft skills of students through multimodal instruction by pre-service teachers in a state university <i>Presenter: John Marvin D. Renacido</i>
1:20 - 1:30	READIFY: Interactive E-story book to improve grade 5 learner's English reading comprehension skill <i>Presenters: Angelo B. Arellano, Mitchie Mae L. Barrios, Honey Mist A. Salvador, Romelyn D. Ramos & Rosemarie S. Badillo</i>
1:30 - 1:40	Junior High school students' satisfaction and preferences on elective courses: Inputs to curriculum review <i>Presenter: Joviene Ziela L. Lunar</i>
1:40 - 1:50	Superbulary for grade 3 English vocabulary skills enhancement <i>Presenters: Anne Cristelle L. Villanueva, Leona R. Esguerra, Marvin Z. Francia, Angel Cristalyn C. Gabinete & Trisha Mae T. Ayala</i>
1:50 - 2:00	Exploring the influence of multiple intelligence on strand selection of graduating junior high school students <i>Presenter: Jasmine Nimfa L. Lunar</i>
2:00 - 2:10	Translated impact on the integration of gamification to students' learning engagement <i>Presenters: Shena Mae C. Albuero, Cyroz A. Montibon & Rhio Mae R. Petrasanta</i>
2:10 - 2:20	APeriod Go: Educational board game for students' engagement in Araling Panlipunan 5 <i>Presenters: Ma. Lourdes M. Adizas, Michelle O. Coraza, Shayne A. dela Cruz, Anthonette Lyn C. Delicano, & Dana Angela B. Javier</i>
2:20 - 2:30	Comparative study between pomodoro and flow method study techniques among college students <i>Presenter: Emmanuel L. Mayordo</i>

- 2:30 - 2:40 Utilizing flipped classroom in enhancing problem solving skills in “numbers and number sense” of student athletes in Pila Central Elementary School
Presenters: Dawn Camille M. Dungo, Mariefe P. Lara, Lovelyn Ashley H. Olipano, Mere Sophia Angeline R. Reyes, & Mary Grace V. Sanchez
- 2:40 - 2:50 Exploring science mnemonics: Enhancing retention skills of grade VI students
Presenters: Andrei C. Andaya Cherry Jean E. Dizon Shella Mae G. Masugbod Joana M. Olivete & Raiza L. Samorin
- 2:50 - 3:00 OPEN FORUM
- 3:00 - 3:05 BREAK

Track: Humanities and Social Sciences

- 3:05 - 3:15 Goals-based assessment of Pantawid Pamilyang Pilipino Program (4PS) in municipality in Laguna: Inputs for program enhancement
Presenter: Yrish Joi P. Lumangaya
- 3:15 - 3:25 The narratives of nurse corps and challenges faced in providing nursing interventions during Marawi siege
Presenter: Edrich Kyle P. Sismundo
- 3:25 - 3:35 Exploring the benefits of Pantawid Pamilyang Pilipino Program (4PS) through the lens of criminology students in Davao Del Norte
Presenters: Aiman B. Cutin, Shekainah M. Papa, & Shiena Mae Lopez
- 3:35 - 3:45 How do health and education influence poverty in rural communities? Evidence from non-linear econometric design
Presenter: Leomark Kevin D. Baldoza
- 3:45 - 3:55 Watt a woman!: A narrative inquiry of women’s experiences and challenges in electrical engineering course during internship program
Presenters: Jan Lian Alimagno, Gieannena Mae Adap, Freidrich Myron Parfan, David Dean Cape, & Patrick Kian Briñas
- 3:55 - 4:05 Identifying gender stereotypes of LGBTQ students at Sta. Catalina National High School
Presenters: Aaron H. Seradoy, Mary Joy L. Villagonzalo, & Precious Rhaiza V. Vergara
- 4:05 - 4:15 Investigating the impact of social pension on the quality of life among senior citizens: Evidence from Randomized Control Trial (RTC) and Ordinal Regression Models
Presenter: Nikko D. Pitallano
- 4:15 - 4:25 Knowledge and preventive measures towards leptospirosis among rice farmers in a selected barangay in Kalibo, Aklan
Presenter: Ian Gillan A. Radislao

- 4:25 - 4:35 Combining ethnography and econometrics to cultivate culture and promote economic development: A mixed method analysis of upland communities in Mt. Isarog, Philippines
Presenter: Romerose Pasno Pillos
- 4:35 - 4:45 The pursuit of logging: A logger's narrative
Presenters: Dave Marthy Cayod-ong & Daven Ray Septimo
- 4:45 - 4:55 Process and effectiveness of students counselling: A study in a higher education institute in Oman
Presenter: Rayyan Musabah Khamis Al-Rushdi
- 4:55 – 5:05 OPEN FORUM
- 5:05 - 5:10 WRAP UP

Awarding and Closing Program

5:15PM Philippine Standard Time

Words of thanks

Mr. Jupeth T. Pentang

*Central Luzon State University
Conference Co-chair*

Giving of Awards

Mr. Dave Llota

Mr. Ronald E. Almagro

Session Chairs

Closing remarks

Ms. Judylene B. Gunda

*Tayabas Western Academy
Conference Junior Co-chair*

Mr. Leo Janry T. Tumbagahan

Master of Ceremonies