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GLOBAL CONGRESS ON SUSTAINABLE GROWTH & DEVELOPMENT



Programme Book

12 December 2024



<https://einstein.co.in/gcsgd2024/>

In line with the Sustainable Development Goals (SDGs), to protect and promote sustainable growth and development of people and planet, this global congress initiates to identify the key positive and negative interactions on the SDGs which could serve as the basis for a science-policy initiative on achieving them. As we forge towards digital technology, we face challenges on the decline of biodiversity, energy, food and water security, climate change, economic and agricultural sustainability, human health, and well-being which has been recognized as the greatest threat faced by the human race and the planet. Academic Institutions, industries, and research organizations have major responsibilities to address these issues and come together in researching solutions to bequeath a sustainable world to our future generations and to create awareness among the younger generation.

Global Congress on Sustainable Growth & Development (GCSGD) 2024 aims to:

- Bring together academicians and world experts to present and share their expertise, knowledge and research findings towards sustainability and growth.
- Stimulate and strengthen interdisciplinary research links among researchers and stakeholders worldwide to take the bold and transformative steps to shift the world on to a sustainable and resilient path.

Main theme

Fostering Multi-Disciplinary Collaboration for Sustainable Development Goals

The scope of this conference includes but is not limited to Sustainable Biosciences for Global Health and Ecosystem Preservation, Innovative Health and Life Sciences for Societal Well-Being, Sustainable Engineering for System, Infrastructure, and Climate Resilience, Digital Innovation for Sustainable Development and Inclusive Growth, Sustainable Management for Responsible Governance and Economic Equity. These are segmented into the following Conference Tracks:

- **Health Science**
- **Life Science**
- **Engineering and IT**
- **Education & Management**

All the accepted papers will be submitted to *Scopus indexed journals and INTI Journal to consider for publication after peer review.

Message from Conference Advisor



Professor Dr. Wong Ling Shing

*Pro Vice Chancellor, INTI International University &
President, Einstein Research Academy*

Welcome to Global Congress on Sustainable Growth and Development 2024 (GCSGD 2024). The importance of achieving sustainable growth and development cannot be emphasised enough. Given the global population's rapid growth to 8 billion, the unprecedented rise in carbon emissions, the alarming accumulation of waste materials, and the rapid depletion of clean resources, it is now crucial to engage in a collective discussion regarding the pressing concerns surrounding the sustainability of our home – planet earth.

It gives me great hope to observe the unwavering commitment of countless researchers, who tirelessly contribute to the progress of knowledge in the fields of Health Sciences, Life sciences, Engineering, IT, Education and Management. In light of the positive outcomes of our past Global Congress events in 2020 to 2023, which garnered the active involvement of more than 300 participants, we have made the decision to organise our 5th Global Congress in hybrid mode for 2024.

I am pleased to inform you that the INTI Journal will continue to support us in publishing exceptional papers produced from our congress. The chosen papers will be submitted to Scopus indexed journals for possible publication. I urge all authors to work closely with our technical and review committee members to ensure that our papers are adhered to the journals' quality, to guarantee a smooth publication process.

I would like to take this opportunity to express my gratitude to Einstein Research Academy for organizing and INTI International University for hosting GCSGD 2024. I would like to express my sincere gratitude to the esteemed members of the committee for their diligent efforts and extend my warmest congratulations for successfully completing the task. Given the accomplishments we have made, I am confident about the possibility of arranging GCSGD once more in 2025.

Message from Conference Chair



Assistant Professor Dr. Sinouvassane Djearamane

*University Tunku Abdul Rahman (UTAR) &
Secretary General, Einstein Research Academy*

On behalf of the organizing committee, it is our prodigious honor to invite and welcome everyone to the “Global Congress on Sustainable for Growth and Development 2024 (GCSGD2024)”. This global congress is organized by Einstein Research Academy and hosted by INTI International University.

This event aims to bring together academicians and world experts to present and share their expertise, knowledge and research findings towards sustainability and growth, and also to motivate and strengthen interdisciplinary research links among researchers and stakeholders worldwide to take the bold and transformative steps to shift the world on to a sustainable and resilient path.

As the organizing chair of this event, I would like to thank the organizer, host and co-organizers for their valuable support, reviewers for evaluating the conference papers, distinguished speakers for sharing their treasured knowledge, and all the presenters in sharing their scientific novel as well as innovative findings. Further, I am indebted to all the members of the organizing committee, scientific session chairs and master of ceremonies for their obligation and meticulousness to make this event memorable and successful.

“We do not inherit the earth from our ancestors; we borrow it from our children...”



EVENT SCHEDULE OF GCSGD2024

| TIME MYT- MALAYSIAN STANDARD TIME IST- INDIAN STANDARD TIME | 12 DECEMBER 2024, THURSDAY (Master of the Ceremony: Ms. Puteri Nur Nabilah Zulkifli, INTI International University, Malaysia) | VENUE/ LINK FOR SESSIONS |
|--|--|--|
| 09.30 – 10.00 AM (MYT) 07.00 – 07.30 AM (IST) | REGISTRATION / MS Teams Channel open to the participants | VENUE: |
| 10.00 – 10.30 AM (MYT) 07.30 – 08.00 AM (IST) | OPENING CEREMONY Welcome Address: Prof. Dr. Wong Ling Shing, Advisor of GCSGD2024. Remarks from Organizing Committee: Dr. Sinouvassane Djearamane, Organizing Chair of GCSGD2024. PHOTO SESSION | Physical: RC-LTB, INTI IU Virtual: MS Teams Join the Main Session Meeting ID: 427 577 671 487 Passcode: Rp9ua2Fw |
| 10.30 – 11.15 AM (MYT) 08.00 – 08.45 AM (IST) | PLENARY DISCUSSION 1: Integration of Information Technology in Health Sciences: A Future Perspective Plenary Panel: Prof. Dr. Shawis Teshk Nouri Prof. Basavaraj Padmashali Dr. Shivanand Sharanappa Gornale Moderator: Prof. Dr. Cheng Wan Hee | |
| 11.15 – 11.30 AM (MYT) 08.45 – 09.00 AM (IST) | TEA BREAK | |
| 11.30 AM – 12.15 PM (MYT) 09.00 – 09.45 AM (IST) | PLENARY DISCUSSION 2: Bridging the Gap: Life Sciences in the Digital Age Plenary Panel: Dr. Ramith Ramu Dr. Piyush Kumar Gupta Assoc. Prof Li Kefeng Moderator: Prof. Dr. Mahadeva Rao | |
| 12.15 – 1.00 PM (MYT) 09. 45 – 10.30 AM (IST) | PLENARY DISCUSSION 3: Multi-disciplinary research: An Important Key to Achieve SDG Plenary Panel: Prof. Dr. Ir. Agustinus Purna Irawan Dr. Sudhakar Madhavedi Dr. Kamaraj Murugesan Moderator: Assoc. Prof. Dr. Douglas Law | |
| LUNCH BREAK (1.00 -02.00 PM, MYT/10:30 - 11:30 AM, IST) | | |

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| <p>02:00 - 05.30 PM (MYT)</p> <p>11:30 AM - 03:00 PM (IST)</p> <div style="border: 1px solid blue; padding: 10px; text-align: center; margin: 20px 0;"> <p>BREAK</p> <p>03:00 - 03.30 PM (MYT)</p> <p>12:30 - 01.00 PM (IST)</p> </div> | <p>KEYNOTES & PARALLEL SESSIONS</p> <p>TRACK 1: HEALTH SCIENCE</p> <p>Track Chair: Dr. Tey Lay Hock</p> <p>Keynotes Speakers: Dr. Anurag Satpathy Dr. Varala Ravi Dr. Simab Kanwal Dr. Sangeetha Arulappan</p> <p>TRACK 2: LIFE SCIENCE</p> <p>Track Chair: Assoc. Prof. Dr. Douglas Low</p> <p>Keynotes Speakers: Assoc. Prof. Dr. R. Ranjith Kumar Prof. Dr. Prakash Balu Prof. Dr. Uun Yanuhar (online)</p> <p>TRACK 3: ENGINEERING & IT</p> <p>Track Chair: Prof. Ir. Dr. Malathy Batumalai</p> <p>Keynotes Speakers: Dr. Thomas Lei Dr. Baranyi Péter Dr. Ravikumar Santhanam</p> <p>TRACK 4: ENGINEERING, IT, EDUCATION & MANAGEMENT</p> <p>Track Chair: Asso. Prof. Ts. Dr. Md. Munir Hayet Khan</p> <p>Keynotes Speakers: Dr. Tóth Miklós Zsombor Ms. Mihálffy Andrea</p> | <p>VENUE:</p> <p><u>TRACK 1: HEALTH SCIENCE</u></p> <p>Physical: B3-07, Academic Block, INTI IU</p> <p>Virtual: Join the Track 1 Meeting ID: 476 148 725 782 Passcode: H5yA2tb3</p> <p><u>TRACK 2: LIFE SCIENCE</u></p> <p>Physical: B3-06, Academic Block, INTI IU</p> <p>Virtual: MS Teams Join the Track 2 Meeting ID: 417 487 109 195 Passcode: Ko7Xh9b8</p> <p><u>TRACK 3: ENGINEERING & IT</u></p> <p>Physical: B3-09, Academic Block, INTI IU</p> <p>Virtual: Join the Track 3 Meeting ID: 456 394 582 586 Passcode: cd6K6uU2</p> <p><u>TRACK 4: ENGINEERING, IT, EDUCATION & MANAGEMENT</u></p> <p>Physical: B3-11, Academic Block, INTI IU</p> <p>Virtual: MS Teams Join the Track 4 Meeting ID: 471 097 729 588 Passcode: 27SJ77Qg</p> |
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Technical Sessions

Parallel Session 1: HEALTH SCIENCE

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| Physical Venue: B3-06, Academic Block, INTI International University | Online: Track 1 Microsoft Teams Meeting ID: 417 487 109 195 Passcode: Ko7Xh9b8 |
| Track Chair | Dr. Tey Lay Hock |
| Date | 12-December-2024 (THURSDAY) |
| Time | 02.00 PM to 05.30 PM (MYT)/ 11:30 AM - 03:00 PM (IST) |

Please Note: IST- Indian standard time, MYT- Malaysian standard time

| Time | | Description |
|---|---------------------------------|--|
| 02:00 – 02.15 PM (MYT) 11:30 - 11:45 PM (IST) | KEYNOTE 1 | Presenter: Dr. Anurag Satpathy Title: Advancing Global Health Through Oral Health: Innovations, Policies, and Community Action for Achieving SDGs. |
| 02:15 – 02.30 PM (MYT) 11:45 AM - 12:00 PM (IST) | KEYNOTE 2 | Presenter: Dr. Varala Ravi Title: India's COVID-19 Response: Challenges and Triumphs |
| 02:30 – 02.45 PM (MYT) 12:00 – 12.15 PM (IST) | KEYNOTE 3 | Presenter: Dr. Simab Kanwal TITLE: Future Perspective on the Anticancer Role of Bacterial Originated Pore Forming Toxin |
| 02:45 – 03.00 PM (MYT) 12:15 – 12.30 PM (IST) | KEYNOTE 4 | Presenter: Dr. Sangeetha Arulappan Title: Cancer And Natural Products: Making A Difference In Cancer Treatment And Prevention |
| 03:00 – 03.30 PM (MYT) 12:30 – 01.00 PM (IST) | TEA BREAK | |
| 03:30 – 03.40 PM (MYT) 01:00 – 01:10 PM (IST) | Presentation 1 HS0124 | DESIGN, DEVELOPMENT AND VALIDATION OF A FABRICATED ORGAN BATH USING HEXAD TISSUE COLUMN MODEL FOR IN-VITRO PHARMACOLOGICAL EXPERIMENTS <i>Mohamed Shabi Mohamed Abdul Kader, Anbu Jayaraman, Ashwini Somayaji, Ananya Jaggi, Asla</i> |
| 03:40 – 03:50 PM (MYT) 01:10 – 01:20 PM (IST) | Presentation 2 HS0224 | EVALUATING THE COMBINED EFFECT OF ANTIBIOTIC AND NSAID THERAPY ON PERIODONTITIS IN ANIMAL MODEL |

Hybrid: GLOBAL CONGRESS ON SUSTAINABLE GROWTH AND DEVELOPMENT - 2024
Theme: Fostering Multi-Disciplinary Collaboration for Sustainable Development Goals

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| | | <i>Chaitra, M. Mohamed Shabi, J Anbu, Shwetha K, Ashmitha K Shetty</i> |
| 03:50 – 04.00 PM (MYT) 01:20 – 01:30 PM (IST) | Presentation 3 HS0324 | EFFICACY OF ETHANOLIC EXTRACT OF <i>Cuscuta reflexa</i> LEAVES (EECRL) IN THE MANAGEMENT OF CHEMICAL INDUCED CARDIOVASCULAR DISORDERS IN EXPERIMENTAL RATS <i>Rinku Kundu, M. Mohamed Shabi, Shoaib Pasha S</i> |
| 04:00 – 04.10 PM (MYT) 01:30 – 01:40 PM (IST) | Presentation 4 HS0424 | EXPLORING CARDIOPROTECTIVE POTENTIAL OF ELECTRON RELEASING GROUP SUBSTITUTED 5- BENZYLIDENE-1,3-THIAZOLIDINE-2,4-DIONE AGAINST ISOPROTERENOL INDUCED MYOCARDIAL INFARCTION IN RATS: A BIOCHEMICAL AND ELECTROPHYSIOLOGICAL ROLE <i>Mohamed Shabi. M, MD Zuber, Vasudeva Rao Avupati, Anbu Jayaraman, Greeshma B S</i> |
| 04:10 – 04.20 PM (MYT) 01:40 – 01:50 PM (IST) | Presentation 5 HS0524 | DEVELOPMENT AND EVALUATION OF A VIRGIN COCONUT OIL-BASED LIPID-SOLUBLE FORMULATION FOR ENHANCED BIOAVAILABILITY OF EPIGALLOCATECHIN GALLATE <i>Ashwini Somayaji, Lakshana R</i> |
| 04:20 – 04.30 PM (MYT) 01:50 – 02:00 PM (IST) | Presentation 6 HS0624 | ASSESSMENT OF THE SENOLYTIC ACTIVITY OF SUSTAINED-RELEASE EPIGALLOCATECHIN GALLATE TRANSDERMAL PATCH IN A CHRONIC WOUND MODEL <i>Ashwini Somayaji, Shwetha K, Keerthi B V, Subhayan Sahu, Anbu Jayaraman</i> |
| 04:30 – 04.40 PM (MYT) 02:00 – 02:10 PM (IST) | Presentation 7 HS0724 | NATURAL PHENAZINE METABOLITE OF A MARINE MICROBE INHIBITS EGFR: MOLECULAR DYNAMICS-BASED STABILITY OF THE INDUCED-FIT MODEL FOR CANCER TREATMENT <i>Neelaveni Thangavel, Ramalingam Peraman, Mohammed Al Bratty</i> |
| 04:40 – 04:50 PM (MYT) 02:10 – 02:20 PM (IST) | Presentation 8 HS0824 | RETROSPECTIVE ANALYSIS OF INR MANAGEMENT IN VALVE REPLACEMENT PATIENTS TO REDUCE THROMBOEMBOLIC AND BLEEDING COMPLICATIONS <i>Juno Angel J, Ram Kumar S R, Kumar Krishnan, Abirami G, Ashok Kumar K, Suganthi M</i> |
| 04:50 – 05:00 PM (MYT) 02:20 – 02:30 PM (IST) | Presentation 9 HS0924 | COMPARITIVE STUDY ASSESSING THE IMPACT OF PRE- AND POST-WASH DENSITY GRADIENT CENTRIFUGATION METHOD ON PREGNANCY OUTCOMES IN ASSISTED REPRODUCTIVE TECHNIQUES <i>Rakshita L R</i> |
| 05:00 – 05:10 PM (MYT) 02:30 – 02:40 PM (IST) | Presentation 10 HS1024 | ARTIFICIAL INTELLIGENCE FOR PHYSIOTHERAPY IN DIABETIC NEUROPATHY: A SCOPING REVIEW <i>Peteti Sairam, Vinodh Kumar Vamalingam, Gundimi Shashwathi</i> |

Technical Sessions

Parallel Session 2: LIFE SCIENCE

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| Physical Venue: B3-07, Academic Block, INTI International University | Virtual: Track 2 Microsoft Teams Meeting ID: 476 148 725 782 Passcode: H5yA2tb3 |
| Track Chair | Assoc. Prof. Dr. Douglas Low |
| Date | 12-December-2024 (THURSDAY) |
| Time | 02.00 PM to 05.30 PM (MYT)/ 11:30 AM - 03:00 PM (IST) |

Please Note: IST- Indian standard time, MYT- Malaysian standard time

| Time | Description |
|---|---|
| 02:00 – 02.15 PM (MYT) 11:30 - 11:45 PM (IST) | KEYNOTE 1 Presenter: Assoc. Prof. Dr. R. Ranjith Kumar Title: The Significance of Scientific Knowledge and Research Within Higher Education |
| 02:15 – 02.30 PM (MYT) 11:45 AM - 12:00 PM (IST) | KEYNOTE 2 Presenter: Prof. Dr. Prakash Balu Title: Ethical Implications of AI Innovations in Biology |
| 02:30 – 02.45 PM (MYT) 12:00 – 12.15 PM (IST) | KEYNOTE 3 Presenter: Prof. Dr. Uun Yanuhar Title: The Contribution of Nanotechnology to the Environment: Solutions for Pollution and Ecosystem Resilience |
| 02:45 – 02:55 PM (MYT) 12:15 – 12.25 PM (IST) | Presentation 1 LS0124 EMBEDDING CONCEPTS OF SUSTAINABLE DEVELOPMENT IN ENVIRONMENTAL EDUCATION <i>Usha Rani, J, Swati Kumari, Aditi Singh, B. Siva Prasad</i> |
| 03:00 – 03.30 PM (MYT) 12:30 – 01.00 PM (IST) | TEA BREAK |
| 03:30 – 03.40 PM (MYT) 01:00 – 01:10 PM (IST) | Presentation 2 LS0224 PHOSPHORUS SOLUBILIZING FUNGAL ISOLATES FROM THE RHIZOSPHERIC SOIL OF BANANA PLANTS <i>Logeshwari, N, Chandra, M, Kavitha, R, Rajamani Ranjithkumar, Sunitha kumari K</i> |
| 03:40 – 03:50 PM (MYT) 01:10 – 01:20 PM (IST) | Presentation 3 LS0324 EXPLORING SUSTAINABILITY IN PLANT TISSUE CULTURE: A COMPREHENSIVE REVIEW |

Hybrid: GLOBAL CONGRESS ON SUSTAINABLE GROWTH AND DEVELOPMENT - 2024
Theme: Fostering Multi-Disciplinary Collaboration for Sustainable Development Goals

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| | | <i>Maruthamuthu Rathinam Elakkiya, Mohandas Krishnasreya, Sureshkumar Tharani Balasundaramsaraswathy Chithradevi</i> |
| 03:50 – 04.00 PM (MYT) 01:20 – 01:30 PM (IST) | Presentation 4 LS0424 | MULTIFACETED APPLICATION OF MICROALGAE AS BIOREMEDIATION AND BIOSTIMULANT <i>Jyoti Rawat</i> |
| 04:00 – 04.10 PM (MYT) 01:30 – 01:40 PM (IST) | Presentation 5 LS0524 | CHARACTERIZATION AND APPLICATION OF IOSURFACTANT PRODUCING BACTERIA AND NANOPARTICLE SYNTHESIS FOR BIOREMEDIATION AND PLANT GROWTH PROMOTION <i>Sowbaranika. U, K. Ashok Kumar, G. Abirami¹, B. Prakash</i> |
| 04:10 – 04.20 PM (MYT) 01:40 – 01:50 PM (IST) | Presentation 6 LS0624 | THE IMPACT OF BIOCHAR ADDITION ON PHYSICO-CHEMICAL CHARACTERISTICS, EARTHWORM GROWTH, AND REPRODUCTIVE PERFORMANCE IN BAGASSE-BASED VERMICOMPOSTING <i>Rekha V K, Abirami G, Karmegam N, Gauri Krishna R, Ashok Kumar K</i> |
| 04:20 – 04.30 PM (MYT) 01:50 – 02:00 PM (IST) | Presentation 7 LS0724 | DEVELOPMENT AND TOXICOLOGICAL ANALYSIS OF METALLO-POLYESTER HYBRID NANOMATERIAL FOR POSSIBLE BIOMEDICAL USE <i>Shaily Chauhan, Piyush Kumar Gupta</i> |
| 04:30 – 04.40 PM (MYT) 02:00 – 02:10 PM (IST) | Presentation 8 LS0824 | CHARACTERIZATION OF FACIAL MASK PASTE MADE FROM BANANA PEELS <i>Emily Quek Ming Poh, Wong Zhao Cheng</i> |
| 04:40 – 04.50 PM (MYT) 02:10 – 02:20 PM (IST) | Presentation 9 LS0924 | GREEN SYNTHESIS OF Cr ₂ O ₃ NANOPARTICLES: A SUSTAINABLE APPROACH TO DYE DEGRADATION <i>Sharon Chia Yen Lim, Ming Xiu Koh, Lai-Hock Tey, Ling Shing Wong, Sinouvassane Djearamane</i> |
| 04:50 – 05:00 PM (MYT) 02:20 – 02:30 PM (IST) | Presentation 10 LS1024 | SYNTHESIS OF DIFFERENT METAL NANOPARTICLES: A SUSTAINABLE APPROACH FOR OBESITY TREATMENT THROUGH LIPASE INHIBITION <i>Ming Xiu KOH, Sharon Chia Yen LIM, Lai-Hock TEY, Ling Shing Wong, Sinouvassane Djearamane</i> |
| 05:00 – 05:10 PM (MYT) 02:30 – 02:40 PM (IST) | Presentation 11 LS1124 | DEVELOPMENT OF GARLIC EXTRACT COATED FUCOIDAN INCORPORATED QUERCETIN LOADED LIPID NANOPARTICLES (FGQLNP) FOR VISCERAL LEISHMANIASIS TREATMENT <i>Shallu Sharma, Shikha Singh, Piyush Kumar Gupta</i> |
| 05:10 – 05:20 PM (MYT) 02:40 – 02:50 PM (IST) | Presentation 12 LS1224 | DIVERSE GUT MICROFLORA AND ANTIBIOTIC RESISTANCE IN POULTRY: IMPLICATIONS FOR HEALTH AND FARMING PRACTICES <i>Keerthana S, Prakash Balu</i> |

Technical Sessions

Parallel Session 3: ENGINEERING AND INFORMATION TECHNOLOGY

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| Physical: B3-07, Academic Block, INTI International University | Virtual: Track 3 Microsoft Teams Meeting ID: 476 148 725 782 Passcode: H5yA2tb3 |
| Track Chair | Prof. Ir. Dr. Malathy Batumalai |
| Date | 12-December-2024 (THURSDAY) |
| Time | 02.00 PM to 05.30 PM (MYT)/ 11:30 AM - 03:00 PM (IST) |

Please Note: IST- Indian standard time, MYT- Malaysian standard time

| Time | Description | |
|---|----------------------------------|--|
| 02:00 – 02.15 PM (MYT) 11:30 - 11:45 PM (IST) | KEYNOTE 1 | Presenter: Dr. Thomas Lei Title: Evaluation of Machine Learning Models in Air Pollution Prediction for a Case Study of Macau as an Effort to Comply with UN Sustainable Development Goal |
| 02:15 – 02.30 PM (MYT) 11:45 AM - 12:00 PM (IST) | KEYNOTE 2 | Presenter: Dr. Baranyi Péter Title: Can Intelligence Be Artificial: AI +/- 100 Years |
| 02:30 – 02.45 PM (MYT) 12:00 – 12.15 PM (IST) | KEYNOTE 3 | Presenter: Dr. Ravikumar Santhanam Title: Applying Lean Six Sigma to Drive Ecosystem Sustainability |
| 02:45 – 02.55 PM (MYT) 12:15 – 12.25 PM (IST) | Presentation 1 EIT0124 | THEORETICAL RESEARCH ON MULTI-STAKEHOLDERS COLLABORATIVE MECHANISM OF GREEN BUILDING <i>Yue Lan, Wai Yie Leong</i> |
| 03:00 – 03.30 PM (MYT) 12:30 – 01.00 PM (IST) | TEA BREAK | |
| 03:30 – 03.40 PM (MYT) 01:00 – 01:10 PM (IST) | Presentation 2 EIT0224 | RESEARCH ON OPTIMIZING WIND TURBINE OPERATION CONTROL STRATEGY BY PREDICTING METEOROLOGICAL PARAMETERS USING PANGU METEOROLOGICAL MODEL <i>Chen Hui Zhao, Wai Yie Leong</i> |
| 03:40 – 03.50 PM (MYT) 01:10 – 01:20 PM (IST) | Presentation 3 EIT0324 | DATA MINING-BASED RESEARCH ON ARTISTIC CREATION AND COGNITIVE DEVELOPMENT OF CHILDREN WITH AUTISM: MULTIMODAL DATA ANALYSIS IN MEDICAL INTERVENTION |

Hybrid: GLOBAL CONGRESS ON SUSTAINABLE GROWTH AND DEVELOPMENT - 2024
Theme: Fostering Multi-Disciplinary Collaboration for Sustainable Development Goals

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| | | <i>Guinong Peng, Wai Yie Leong</i> |
| 03:50 – 04:00 PM (MYT) 01:20 – 01:30 PM (IST) | TEA BREAK | |
| 04:00 – 04:10 PM (MYT) 01:30 – 01:40 PM (IST) | Presentation 4 EIT0424 | AIGC MULTIMODAL TOOLS IMPROVE THE EFFICIENCY OF SHORT VIDEO CREATION <i>Gao Mingda</i> |
| 04:10 – 04:20 PM (MYT) 01:40 – 01:50 PM (IST) | Presentation 5 EIT0524 | DIGITAL EMPOWERMENT ENHANCING VOCATIONAL EDUCATION-INDUSTRY COLLABORATION FOR SUSTAINABLE GROWTH <i>Hong Li Zhang, Wai Yie Leong</i> |
| 04:20 – 04:30 PM (MYT) 01:50 – 02:00 PM (IST) | Presentation 6 EIT0624 | FREE PISTON LINEAR ENGINE GENERATOR DRIVEN BY SYNGAS: A REVIEW OF EFFICIENT FUEL OPPORTUNITIES <i>Saraban Salsabila, Md Abu Hasan Al Askary</i> |
| 04:30 – 04:40 PM (MYT) 02:00 – 02:10 PM (IST) | Presentation 7 EIT0724 | DRIVING FACTORS AND MECHANISMS OF BIM TECHNOLOGY IN PROMOTING GREEN BUILDING DEVELOPMENT IN CHINA <i>Feng Yang, Wai Yie Leong</i> |
| 04:40 – 04:50 PM (MYT) 02:10 – 02:20 PM (IST) | Presentation 8 EIT0824 | AI-DRIVEN AUTOMATION IN SOFTWARE TESTING: ENABLING SME ADOPTION <i>Sothy Sundara Raju</i> |
| 04:50 – 05:00 PM (MYT) 02:20 – 02:30 PM (IST) | Presentation 9 EIT0924 | THE IMPACT OF CHINA'S CARBON MARKET TERNATIONALIZATION ON SOME COUNTRIES ALONG THE BELT AND ROAD INITIATIVE <i>Huang Guangnan, Leong Wai Yie</i> |
| 05:00 – 05:10 PM (MYT) 02:30 – 02:40 PM (IST) | Presentation 10 EIT1024 | ADVANCEMENTS IN THE APPLICATION OF MACHINE LEARNING IN ENVIRONMENTAL MONITORING: NEW PATHWAYS TO PROMOTE SUSTAINABLE DEVELOPMENT <i>Yan Li, Waiyie Leong, Hongli Zhang</i> |
| 05:10 – 05:20 PM (MYT) 02:40 – 02:50 PM (IST) | Presentation 11 EIT1124 | DIGITAL INNOVATION EMPOWERING SUSTAINABLE DEVELOPMENT IN EDUCATION: EXPLORING PATHWAYS FROM THE PERSPECTIVE OF SDG 4 <i>Li Peng Wang¹, Wai Yie Leong</i> |
| 05:20 – 05:30 PM (MYT) 02:50 – 03:00 PM (IST) | Presentation 12 EIT1224 | DESIGN AND FABRICATION OF HIGH GAIN DIELECTRIC RESONATOR ANTENNA USING BaTiO ₃ and CaTiO ₃ PEROVSKITES <i>Jayatharuni. S. N, N.Priyadharsini, T.Swathi</i> |
| 05:30 – 05:40 PM (MYT) 03:00 – 03:10 PM (IST) | Presentation 13 EIT1324 | ADVANCEMENTS IN ACROPHOBIA ASSESSMENT: A MULTIMODAL BIOSIGNAL ANALYSIS APPROACH <i>Guang Yang Pan, Wai Yie Leong</i> |

Technical Sessions

Parallel Session 4: ENGINEERING, IT, EDUCATION & MANAGEMENT

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|---|---|
| Physical Venue: B3-11, Academic Block, INTI International University | Virtual: Track 4 Microsoft Teams Meeting ID: 471 097 729 588 Passcode: 27SJ77Qg |
| Track Chair | Asso. Prof. Ts. Dr. Md. Munir Hayet Khan |
| Date | 12-December-2024 (THURSDAY) |
| Time | 02.00 PM to 05.30 PM (MYT)/ 11:30 AM - 03:00 PM (IST) |

Please Note: IST- Indian standard time, MYT- Malaysian standard time

| Time | Description | |
|---|----------------------------------|--|
| 02:00 – 02.15 PM (MYT) 11:30 - 11:45 PM (IST) | KEYNOTE 1 | Presenter: Dr. Tóth Miklós Zsombor Title: The importance of applied rhetoric and communication skills in entrepreneurship education. The implementation of an eco-friendly project in a Hungarian vocational trading school: A sustainability-oriented approach. |
| 02:15 – 02.30 PM (MYT) 11:45 AM - 12:00 PM (IST) | KEYNOTE 2 | Presenter: Ms. Mihálffy Andrea Title: From Visionary Minds to Visionary Machines |
| 02:30 – 02.40 PM (MYT) 12:00 - 12:10 PM (IST) | Presentation 1 EIT1424 | PAPER UMBRELLA TECHNIQUES AS INTANGIBLE CULTURAL HERITAGE THROUGH CULTURAL TRANSLATION <i>Yanfei Tang, Wai Yie Leong</i> |
| 02:40 – 02.50 PM (MYT) 12:10 – 12.20 PM (IST) | Presentation 2 EIT1524 | IMPROVED KOLMOGOROV-ARNOLD TRANSFORMER FOR TFT-LCD ANOMALY DETECTION <i>Weiwei Chen, Waijie Leong</i> |
| 02:50 – 03.00 PM (MYT) 12:20 – 12.30 PM (IST) | Presentation 3 EIT1624 | ENHANCING STUDENT ENGAGEMENT THROUGH GAMIFICATION: A CASE STUDY OF REWARD SYSTEMS IN EXTRACURRICULAR ACTIVITIES AT UNIVERSITI GEOMATIKA MALAYSIA <i>Alphadio Kouyate, Noor Asiah Rashid, Fatima Ahmad</i> |
| 03:00 – 03.30 PM (MYT) 12:30 – 01.00 PM (IST) | TEA BREAK | |

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| 03:30 – 03.40 PM (MYT) 01:00 – 01:10 PM (IST) | Presentation 4 EIT1724 | VIABILITY OF THE HYDROGEN ENERGY <i>Iker Diaz Elipe, Haritz Dominguez Jaramillo, Daiva Stanelytè</i> |
| 03:40 – 03:50 PM (MYT) 01:10 – 01:20 PM (IST) | Presentation 5 EIT1824 | SMART MARKET INSIGHT SYSTEM (SMIS) FOR SUSTAINABLE ECONOMIC EQUITY AND GOVERNANCE <i>Payal Tomar, Satyajit Pangaonkar, Wai Yie Leong, Surendra Rahamatkar</i> |
| 03:50 – 04.00 PM (MYT) 01:20 – 01:30 PM (IST) | Presentation 6 EIT1924 | A STUDY ON BLOCK CHAIN AND DECENTRALIZED AI SYSTEMS TOWARDS ACHIEVING SUSTAINABLE DEVELOPMENT GOALS <i>Vishwas Dixit, Surendra N. Rahamatkar, Leong Wai Yie, Chan Siew Chong</i> |
| 04:00 – 04.10 PM (MYT) 01:30 – 01:40 PM (IST) | Presentation 7 EM0124 | FACTORS SUPPORTING THE SUCCESS OF THE DEVELOPMENT OF A COMPREHENSIVE COMMUNITY LEARNING CENTER CASE STUDY: BAN LUEK COMMUNITY, PHOTHARAM DISTRICT, RATCHABURI PROVINCE <i>Kitisak Thongmeethip, Nattapornpash Insiripong, Ratchanida Rod-iew and Pummarin Chuanchom</i> |
| 04:10 – 04.20 PM (MYT) 01:40 – 01:50 PM (IST) | Presentation 8 EM0224 | RESEARCH ON THE SUSTAINABLE MANAGEMENT OF BLENDED LEARNING FOR ALL: ISSUES AND CHALLENGES WITH CASE EXEMPLARS <i>Huang Zeng, Khar Thoe Ng, Li Xi1, Rabindra Dev Prasad, Zhang Cui, Guan Xing Zhi, Zhang Liben</i> |
| 04:20 – 04.30 PM (MYT) 01:50 – 02:00 PM (IST) | Presentation 9 EM0324 | RESEARCH ON THE CURRENT SITUATION WITH COUNTERMEASURES OF THE COOPERATION BETWEEN RURAL FAMILIES AND PRIMARY SCHOOLS: CASE EXEMPLAR IN INNER MONGOLIA <i>Yaxin Qu, Khar Thoe Ng, Phawani A. Vijayaratnam</i> |
| 04:30 – 04.40 PM (MYT) 02:00 – 02:10 PM (IST) | Presentation 10 EM0424 | A STUDY ON ENHANCING DIGITAL LITERACY AND INNOVATIVE ABILITIES OF CHINESE LANGUAGE TEACHERS IN THE CONTEXT OF EDUCATIONAL DIGITALIZATION <i>Qiuying Wang, Wai Yie Leong</i> |
| 04:40 – 04.50 PM (MYT) 02:10 – 02:20 PM (IST) | Presentation 11 EM0524 | EDUCATIONAL TECHNOLOGY FOR INCLUSIVE EDUCATION: A STUDY OF LEARNING EXPRESS AND STUDENT MOTIVATION <i>Li Xi, Khar Thoe Ng, Huang Zeng, Zhang Cui</i> |
| 04:50 – 05.00 PM (MYT) 02:20 – 02:30 PM (IST) | Presentation 12 EM0624 | DESIGN AND DEVELOPMENT RESEARCH ON ESD REFORM FOR HIGHER EDUCATION INSTITUTIONS (HEIS) WITH CASE EXEMPLARS <i>Kumaran all Lechimi Kanthan, Khar Thoe Ng, Nurul Nadiyah Abdullah, Suma Parahakaran, Corrienna Abdul Talib, Jing Hang Ng, Kamolrat Intaratat</i> |
| 05:00 – 05.10 PM (MYT) 02:30 – 02:40 PM (IST) | Presentation 13 EM0724 | AUTISM IOT-ENABLED INTERVENTION FOR BEHAVIORAL CHALLENGES IN LEARNING ENVIRONMENT <i>Marini Othman, Mahaletchumy Ramakrishnan</i> |
| 05:10 – 05.20 PM (MYT) 02:40 – 02:50 PM (IST) | Presentation 14 EM0824 | SUSTAINABLE FINANCING IN INDONESIAN FINANCING INSTITUTIONS: WHAT DOES THE CURRENT TREND LOOK LIKE? |

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| | | <i>Prima Naomi, Akmal Abudiman, Wa Ode Febry Nur Aisyah Nunsyah</i> |
| 05:20 – 05:30 PM (MYT) 02:50 – 03:00 PM (IST) | Presentation 15 EM0924 | BUILDING EQUITABLE LEARNING ENVIRONMENTS: THE USE AND CHALLENGES OF INNOVATIVE TECHNOLOGIES IN ENHANCING STUDENT ENGAGEMENT <i>Zhang Cui, Khar Thoe Ng, Huang Zeng, Li Xi</i> |
| 05:30 – 05:40 PM (MYT) 03:00 – 03:10 PM (IST) | Presentation 16 EM1024 | THE IMPACT OF LIVE STREAMING SHOPPING WAY ON CONSUMER PURCHASE INTENTION IN TIKTOK PLATFORM <i>Shixue Yan, CheeHoo Wong, Mohd Rushidi Mohd Amin</i> |

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