DIFCON2023

Advancing Sustainable Development for a Resilient Future

Advancing Sustainable Development for a Resilient Future

MMU®
MULTIMEDIA UNIVERSITY

26 – 28 July 2023

Table Of Content

Welcome Message

Forewords

About DIFCON2023

Keynote Speakers

Tentative

Co-Located Conferences

Publication Lists

Meet The Congress Team

Special Thanks

رَبِّ زِدْنِي عِلْمًا

٢٠ : ١١٤

Oo my Lord, increase me in knowledge [20:114]

Prof. Dato' Dr. Mazliham Mohd Su'ud

President & CEO Multimedia University

Welcome Message

Alhamdulillah, praise the Almighty Allah SWT, with His blessings and consent, we are able to gather here today for our annual flagship event the Digital Futures International Congress 2023. On behalf of MMU team, I wish to extend a warm welcome to all, and a special welcome back to the many returning DIFCON participants. You are living testimonials of MMU's efforts in championing research excellence, and our vision to help transforming society through innovation

Advancing sustainable development is of paramount importance for a resilient future, both locally in Malaysia and globally in general. Sustainable development refers to meeting present needs without compromising the ability of future generations to meet their own needs. It encompasses economic growth, social progress, and environmental protection. By adopting sustainable development practices worldwide, we can create a resilient future that ensures the well-being of current and future generations, fosters environmental stewardship, promotes economic prosperity, and achieves social equity. This is why we feel that it is appropriate to adopt "Advancing Sustainable Development for a Resilient Future" for the theme for DIFCON2023.

Let me again wish all participants a successful three days. May you also take the opportunity to make connections and use the platform to share resources and experiences. Let us see more of each other in the future, in gatherings just as friendly as today's, if not even better, Insya Allah.

Foreword
By CEO of TM R&D

Warm greetings to all and I congratulate all participants in this year's Digital Futures International Congress. Programs like DIFCON are an important platform to catalyze and exchange knowledge to help transform our society, especially through the rigour and discipline of research and innovation.

Building a resilient future is a key challenge in today's world of continuous and intense disruption as well as uncertainties. To overcome and thrive, the execution of comprehensive and integrated initiatives that address our complex environmental, social, and economic dimensions are of vital importance. With that, the adoption of "Advancing Sustainable Development for a Resilient Future" as the theme for DIFCON2023 is spot on and could not have come at a better time.

I would like to thank the organizing committee who have worked to bring this event to life. I would also like to extend my appreciation to all the speakers who have graciously agreed to share their expertise and knowledge with us.

And to our esteemed attendees, I encourage you to fully embrace this occasion and take this opportunity to not only engage in meaningful conversations but also forge new connections. May the experiences shared within these three days inspire all of us to push the boundaries of research and innovation.

Thank you.

Dr Sharlene Thiagarajah
Chief Executive Officer
TM Research & Development

Foreword
By General Chair of DIFCON2023

Welcome to DIFCON2023!

The heart of success of this third edition of DIFCON lies upon the untiring and devoted efforts by the organizing committee members especially from the six conferences; CITIC2023, MECON2023, ICTIM2023, ICCM2023, CLESS2023 and ICLD2023.

Overall the DIFCON2023 manages to attract paper submissions from 1669 authors coming from 34 countries, subsequently resulting in a total of 372 accepted papers, at an overall acceptance rate of 73 %. The proceedings will be published by indexed proceedings publishers, while selected papers will be published in collaborating journals, including SCOPUS indexed journals and the MMU Press journals.

The quality of the accepted papers highly depends on the referee system. Thus, it goes without saying that the success of this event also contributed by the numerous reviewers of the respective conferences. These experts have worked hard behind the scene, voluntarily contributed their valuable time to ensure this success. On behalf of DIFCON2023, thank you.

Last but not least, we appreciate the participation of the co-organizers A' Sharqiyah University, Oman, Universiti Tenaga Nasional (UNITEN), Malaysia and Universiti Kuala Lumpur (UNIKL), Malaysia, our sponsor IX Telecom, and the supporting organizations; Global Youth coalition for Road Safety, Uzima Ari and University of Vienna. Once again welcome and thank you.

Prof. Ir. Dr. Tso Chih Ping
General Chair
DIFCON2023

About DIFCON2023

Digital Futures International Congress (DIFCON2023) is organized by Multimedia University (MMU). DIFCON provides a multidisciplinary platform for gathering scholars from different disciplinary backgrounds to disseminate ongoing research related to digital futures of our society, following the "2030 Agenda for Sustainable Development"

Six co-located conferences were organized with areas of interest ranging from engineering, computer science and information technology to art, social sciences and languages as well as law, legal and creative multimedia.

Keynote Speakers

Introducing our line-up of world known scholars.

Prof. Dr. Nafarizal bin Nayan

Universiti Tun Hussein Onn, Malaysia

Title: Future of Plasma Technology | 26 July 2023

Prof. Dr. Nafarizal Nayan is a professor of plasma nano processing and diagnostics at Universiti Tun Hussein Onn Malaysia. He graduated his B. Eng., M. Eng. and D. Eng. degrees from the Plasma Nanotechnology Research Center of Nagoya University, Japan in 2003, 2005, and 2008, respectively. Prof. Nafarizal's research interest is on plasma diagnostics, plasma processing, and thin film deposition. To date, he is the author and co-author of more than 80 ISI-journal papers, 130 reviewed journal papers and more than 200 conference papers.

Oliva Nalwadda

Founder, UZIMA ARI Uganda

Title: Global Youth Coalition for Road Safety | 26 July 2023

Oliva Nalwadda is a Ugandan Based Researcher, Public Health Advocate and Youth Activist with keen interest in Road Safety Promotion and Awareness, Women's Mental Health, and Disability Inclusion. She is the founder of UZIMA ARI Uganda, and serves on the youth leadership board of the Global Youth Coalition for Road Safety, a founding member of the International Violence Abuse and Mental Health Network (iVAMHN). Oliva holds a MSc. in Population Health, a MSc. in Global Health and Social Justice and a BSc. in Psychology. Her vision is to revitalize global and multistakeholder partnerships for Sustainable Development with particular interest in diverse and equitable programming.

Assoc. Prof. Ir. Dr. Manjeevan Singh Seera

Deputy Head of School (Research), School of Business, Monash University

Title: The Intersection of Machine Learning, Sustainability, and Social Sciences: Pioneering a New Frontier for a Better Future | 28 July 2023

Ir. Dr. Manjeevan Singh Seera is a highly accomplished academic and industry professional, currently serving as an Associate Professor in Business Analytics in Monash University Malaysia. He earned his Ph.D. in Computational Intelligence from Universiti Sains Malaysia. Manjeevan's research focuses on machine learning principles and applications in finance and engineering, with a particular interest in developing machine learning models for Fintech applications

Prof. Sara A. Abdoh

Benha University, Egypt

Title: Art, Digital technology and Sustainability | 28 July 2023

Prof. Sara A. Abdoh is an award-winning art historian and the head of department of Sculpture, Architectural Formation and Restoration, Faculty of Applied Arts, BU, Egypt. She graduated from the Faculty of Fine Arts, Alexandria University and got a Master's degree and a PhD in the History of Art, Faculty of Fine Arts, Helwan University, Egypt. Prof. Abdoh is a Member of Editorial Board of several International scientific journals. She has publications in various international conferences and journals.

Tentative Opening Ceremony

Time	26 July 2023
9.00 - 9.30 am	Participants login & registration
9.30 - 9.35 am	Welcoming address
9.35 - 9.40 am	Doa recitation Dr Khair Razlan Othman Chairman, Masjid Al Irsyad, MMU Melaka
9.40 - 10.00 am	Welcoming speech by Multimedia University's President Y.Bhg. Prof. Dato' Dr. Mazliham Mohd. Su'ud
10.00 - 10.30 am	Opening speech by ASM's President Y.M. Academician Datuk Dr. Tengku Mohd Azzman Shariffadeen Tengku Ibrahim
10.30 - 10.35 am	DIFCON2023's opening montage
10.35 - 10.40 am	Group photo
10.40 - 11.00 am	Break
11.00 - 11.45 am	Keynote Speaker 1 Prof. Dr. Nafarizal Nayan, Director, Research Management Centre (RMC), Universiti Tun Hussein Onn Malaysia
11.45am - 12.30 pm	Keynote Speaker 2 Oliva Nalwadda Youth Ambassador, FIA Foundation & Child Health Initiative
12.30 - 1.00 pm	Briefing on parallel sessions

Link for Opening Ceremony

Tentative Closing Ceremony

Time	28 July 2023
2.30 - 2.45 pm	Participants login & registration
2.45 - 3.30 pm	Keynote Speaker 3 Assoc. Prof. Ir. Dr. Manjeevan Singh Seera Deputy Head of School (Research), School of Business, Monash University
3.30 - 4.15 pm	Keynote Speaker 4 Prof. Sara A. Abdoh Benha University, Egypt
4.15 - 4.45 pm	Closing remarks & awards announcement Assoc. Prof. Dr Kamarulzaman Ab. Aziz DIFCON2023 General Co-chair
4.45 - 4.55 pm	DIFCON2023's closing montage
4.55 - 5.00 pm	Group photo

Link for Closing Ceremony

DIFCON2023

Advancing Sustainable Development for a Resilient Future

CO-LOCATED CONFERENCES

DIFCON2023 proudly hosts six co-located conferences.

Kindly scan the QR code of the respective conference for more details.

difcon.mmu.edu.my

2023

Co-Located Conferences

Multimedia University Engineering Conference (MECON 2023)

Theme: Embracing the future of Smart World Through Engineering and Technology

Tracks : Robotics and Automation, Advances in Mechanical Engineering, Nano and Micro Electronics, Wired and Wireless Telecommunications, Electrical Engineering and Green Energy, Photonics and Optics, Industry 4.0

The Multimedia University Engineering Conference 2023 (MECON 2023) aims to bring together related research scholars, educators, practitioners, policy makers, enthusiasts, fellow students, and industries to share and exchange their research experiences and results on all aspects of engineering technologies from various perspectives, disciplines, and fields. It also offers an interdisciplinary platform for all stakeholders to present and discuss the most latest trends, innovations, and concerns as well as practical challenges encountered, and solutions adopted in the realm of engineering technologies. This conference is being co-organised by the Faculty of Engineering (FOE) and Faculty of Engineering and Technology (FET), Multimedia University. MECON 2023 carries the theme `Embracing the future of Smart World Through Engineering and Technology

International Conference on Communication, Language, Education and Social Sciences (CLESS 2023)

Theme: Towards Building a Sustainable and Resilient Future

Tracks : Communication, Language, Education, Psychology, Culture, Society

The 4th International Conference on Communication, Language, Education and Social Sciences (CLESS 2023)is unique in which it combines communication, language, education, and social science in an international academic conference. The aim of CLESS 2023 is to offer a platform for both local and international academics, educators, researchers and other professionals to meet, share and discuss latest research, trends, ideas and innovation in the field of communication, language, education, psychology and social sciences. The conference is aimed to provide a platform for young researchers as well as to support and encourage other researchers to present their research, to network within the international community of researchers and to share and seek the insight and advice of successful senior researchers all over the world during the conference.

Co-Located Conferences

International Conference on Computing, Information Technology and Intelligent Computing (CITIC 2023)

Theme: Empowering the Future: The Role of Information Technology in Building Resilience

Tracks : Artificial Intelligence & Machine Learning, Software Engineering, Information Systems, Pattern & Image Processing, IoT, Big Data & Blockchain Technology, Security & Privacy.

The 3rd International Conference on Computer, Information Technology and Intelligent Computing (CITIC 2023) is being co-organized by Faculty of Computing & Informatics (FCI) and Faculty of Information Science Technology (FIST), Multimedia University. CITIC 2023 aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Frontiers in Computer, Information Technology and Intelligent Computing. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Computer, Information Technology and Intelligent Computing.

International Conference on Law and Digitalisation (ICLD 2023)

Theme: Building a Sustainable Future for Responsible Innovation and Management

Tracks : Law and Education, Law and Employment, Law and Social Security, Legal Aspects of the Digital Economy, Fintech Law, Family Law, Intellectual Property, Legal Regulation of Data Circulation, Shariah and Contemporary Issues, Preservation of Digital User Data in a Digital Environment, Ensuring Human Rights in the Digital World Including Identification (Correlation of a Person with His Digital Image), Creating New Legal Institutions Aimed at the Formation of an Environment of Trust etc., Digitalisation and Competition Law, Digitalisation and Corporate Law, Digitalisation and Law of Evidence, Digitalisation and the Legal Profession, Digitalisation and Civil Law Procedure, Digitalisation and Criminal Law Procedure

The Faculty of Law (FOL), Multimedia University will hold the 3rd International Conference on Law and Digitalization 2023 (ICLD23) with aim to provide a platform for both local and international academics, practitioners, policymakers, researchers and students to meet, share ideas and knowledge in law and digitalization through paper presentation. It also aims to encourage academic linkages between the academicians and the researchers from the legal fraternity. It also promotes future co-operations among the intellectuals from various fields and disciplines.

Co-Located Conferences

International Conference on Technology and Innovation Management (ICTIM 2023)

Theme: Humanizing Innovation for a Sustainable and Resilient Future

Tracks : Organizational Issues In Technology And Innovation Management, Impact Of Innovation On Society And Nation Building

The Centre for Knowledge and Innovation Management (CEKIM), Faculty of Management, Multimedia University is set to hold its third conference titled `International Conference on Technology and Innovation Management 2023 (ICTIM 2023)' which carries the theme `Humanizing Innovation for a Sustainable and Resilient Future'. This conference will bring together academic researchers, industry players, policymakers and civil society leaders to engage and share the latest trends and development in technology and innovation management.

International Conference of Creative Multimedia (ICCM 2023)

Theme: Empowering Creative Solutions for Sustainable Future

Tracks : Art & Design Theory, Human Centric Design, Interdisciplinary Design & Application, Media Expression & Creative Technology, Creative Industry

The Faculty of Creative Multimedia (FCM), Multimedia University will hold the 3rd International Conference on Creative Multimedia 2023 (ICCM2023) on 26-28 July 2023 (Virtual Conference). ICCM2023 invites prospective authors to take part by submitting research papers in pursuing the vibrant discourse of creative multimedia. ICCM2023 aims to bring together related research scholars, educators, practitioners, policymakers, enthusiasts, fellow students, and design entrepreneurs from various perspectives, disciplines, and fields to share and exchange their research experiences and results on all aspects of arts, design, and creative media technologies. ICCM2023 embraces possibilities, provides an interdisciplinary forum for all stakeholders to present and discuss current trends, innovations, and concerns, as well as practical issues and solutions in the field of creative multimedia. We welcome high-quality research contributions dealing with original and unpublished results on fundamental, conceptual, empirical and experimental work in all areas of arts, design and creative media technologies.

Publication Lists

All accepted papers will be published in indexed journals (subject to meeting individual journals requirement) or proceedings. Following are participating journals:

- Journal of System and Management Sciences (JSMS); ISSN:1816-6075 e-ISSN:1818-0523; SCOPUS
- Journal of Logistics, Informatics and Service Science (JLISS); ISSN:2409-2665; SCOPUS
- International Journal of Technology (IJTech);ISSN : 2086-9614; SCOPUS
- Journal of Telecommunications and the Digital Economy (JTDE); ISSN 2203-1693; SCOPUS
- Journal of Engineering Technology and Applied Physics (JETAP); eISSN: 2682-8383; MyCite, MyJurnal
- International Journal on Robotics, Automation and Sciences (IJORAS); eISSN: 2682-860X; MyJurnal
- Journal of Informatics and Web Engineering (JIWE); eISSN: 2821-370X; MyJurnal

Meet The Congress Committee

Advisors

Prof. Ir. Dr. Hairul Azhar Bin Abdul Rashid

Prof. Ir. Dr. Zulfadzli Bin Yusoff

General Chair

Prof. Ir. Dr. Tso Chih Ping

General Co-Chair

Assoc. Prof. Dr. Kamarulzaman Bin Ab Aziz

General Secretariat Chair

Assoc. Prof. Dr. Nor Azlina Binti Bin Ab Aziz

General Keynote

Chair

Assoc. Prof. Dr. Fazly Salleh Bin Abas

Co-Chair

Ms. Norzarina Binti Md Yatim

General Web Management System Chair

Ts. Dr. Sumendra A/L Yogarayan

General Publicity

Chair

Dr. Khair Razlan Bin Othman

Co-Chair

Mr. Tan Gek Siang

Special Thanks

Main Organizer

MMU MULTIMEDIA UNIVERSITY

MMU CNERGY ACADEMIC-INDUSTRY KNOWLEDGE EXCHANGE

Co - Organizers

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