



4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025)

Organized by IFERP Academy

Post Conference Report

4th WCMRI – 2025, Contributed to Following SDGs



Foreword

Dear Participants,

It gives me great pleasure to share with you the outcomes and results of the 4th WCMRI – 2025, with the theme of " Synergizing Science and Innovation for a Sustainable World " which was held at Singapore on 17th & 18th July, 2025. More than 300 people attended the event in person, and more than 500 people watched the live stream online. We were able to actively engage and reach out to a wider spectrum of research communities.



Mr. A. Siddh Kumar Chhajer
MD & Founder, IFERP
Technoarete Group

The 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025), provided a vibrant platform that brings together scholars, educators, and researchers from a variety of disciplines. It is a hub for exchanging innovative research about Information and Communication Technology, Networks of Economy and Trade, Wireless Communication Systems & Communication Engineering, Latest Research on Bioengineering, Civic and Political Studies, Global Studies, Mathematical Sciences and Data Analytics, Emerging Technologies in Marketing, Internet of Things & Industry 4.0, Educational Technology and Innovation, Teaching and Learning Methodologies, Curriculum Development and Educational Policy.

We are grateful for the support of many universities and research institutes, whose contributions were vital to the success of this conference. We extend our sincere gratitude and highest respect to the professors who played an important role in the review process, providing valuable feedback and suggestions to authors to improve their work. We also extend our appreciation to the external reviewers for providing additional support in the review process and to the authors for contributing their research results to the 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025).

Mr. Siddh Kumar Chhajer
MD & Founder,
IFERP, Technoarete Group

Table of Contents

1. Conference Summary

- 1.1 Conference Overview
- 1.2 Conference Theme
- 1.3 Objectives & Scope of the Conference

2. Guest of Honor, Keynote Speakers, Session Speakers, Panel Discussion Speakers & Session Chairs

3. Welcoming & Introduction

4. Welcome Speeches

- 4.1 Welcome Speech by Special Guest - Mr. A. Siddth Kumar Chhajer
- 4.2 Welcome Speech by Special Guest – Prof. Dr. J. Somasekar
- 4.3 Welcome Speech by Special Guest – Dr. Teik-Cheng Lim
- 4.4 Welcome Speech by Special Guest – Dr. Siva Mahendran
- 4.5 Welcome Speech by Special Guest – Assoc. Prof. Ts. Dr. Rajermani Thinakaran

5. Keynote Speeches

- 5.1 Keynote Speech by Prof. Dr. J. Somasekar
- 5.2 Keynote Speech by Professor Dr. Teik-Cheng Lim
- 5.3 Keynote Speech by Dr. Siva Mahendran
- 5.4 Keynote Speech by Dr. Anuj Kumar Gupta
- 5.5 Keynote Speech by Assoc. Prof. Dr Sathish Kumar Selvaperumal
- 5.6 Keynote Speech by Assoc Dr. Hemin Ibrahim
- 5.7 Keynote Speech by Dr. A. Sai Ramesh
- 5.8 Keynote Speech by Assoc Prof. Dr. Alireza Mohammadi

6. Panel Discussion on Innovation Without Borders: Uniting Science for Global Sustainability

7. Group Photo

8. Inaugural Programme

9. Conference Proceedings Book Release

10. Memento Ceremony

11. Technical Presentation Sessions

11.1 Technical Presentation Session 1 A

11.1.1 Speech by Session Speaker Assoc. Prof. Ts. Dr. Rajermani Thinakaran

11.1.2 – 11.1.13 Scientific Presentations

12. Technical Presentation Sessions

12.1 Technical Presentation Session 2 A

12.1.1 Speech by Session Speaker Dr Nikolina Ljepava

12.1.2 Speech by Session Speaker Assoc. Prof. Dr. Abdul Rauf Ridzuan

12.1.3 Speech by Session Speaker Dr Saptorshi Das

12.1.4 – 12.1.13 Scientific Presentations

13. Award Ceremony - Best Paper Presentation Awards

14. Valedictory Function

15. Vote of Thanks

16. Conference Glimpses

17. General Comments & Feedbacks

1. Conference Summary



Conference Name : 4th World Conference on Multidisciplinary Research & Innovation
(4th WCMRI - 2025)

Date : 17th & 18th July, 2025

Venue : Singapore

Conference Theme : Synergizing Science and Innovation for a Sustainable World

Organized By : IFERP Academy

No. of Organizing Committee Members : 38

No. of Editors/Reviewers : 28

No. of Speakers : 17

No. of Abstracts Received : 302

No. of Participants Registered : 186

No. of Attendees : 243

1.1 Conference Overview

4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025), was the place where ideas collided and innovations take the spotlight for the contribution towards achieving Sustainable Development Goals! 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025) had long been the meeting place for professionals, educators, researchers, policymakers, and industry professionals looking to network, share ideas, and grow in their respective fields. At this Multi-Disciplinary Research Studies and Education conference in Singapore, academics, researchers, and educators were came together to share their groundbreaking research, and different views, and explore unique ideas from various fields.

Through collaboration, the conference explored intersections between various disciplines and created a dynamic environment to enhance educational discussions and explore diverse studies. This International Conference in Singapore, was a part of shaping the future of global education. They continued to inspire, transform, and shape education together. Their participation was more than just an RSVP; it is an important role in our community dedicated to academic success and positive change.

1.2 Conference Theme

The theme of the 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025) “ **Synergizing Science and Innovation for a Sustainable World** “ was to provide a lively space where different academic areas come together. 4th WCMRI – 2025 stands as a melting pot of ideas, where the boundaries between advances in Multi-Disciplinary Research Studies and Education disciplines blur, giving rise to innovative solutions that address global challenges. The conference embraces the multidisciplinary nature of Information and Communication Technology, Networks of Economy and Trade, Wireless Communication Systems & Communication Engineering, Latest Research on Bioengineering, Civic and Political Studies, Global Studies, Mathematical Sciences and Data Analytics, Emerging Technologies in Marketing, Internet of Things & Industry 4.0, Educational Technology and Innovation, Teaching and Learning Methodologies, Curriculum Development and Educational Policy.

This theme encapsulates the conference's focus on fostering innovation and collaboration across diverse disciplines within Multi-Disciplinary Research Studies and Education. It encourages participants to explore and present cutting-edge solutions that contribute to the sustainable development of industries, addressing challenges and advancing knowledge for a better future. The

multidisciplinary perspective highlights the interconnectedness of various fields in creating holistic and impactful solutions.

1.3 Objectives & Scope of the Conference

The 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025) aims to bring together academics, researchers, industry professionals, and students from diverse fields to explore cutting-edge advancements and trends across Multi-Disciplinary Research Studies and Education.

Key objectives include:

- **Foster Multidisciplinary Collaboration :** The conference aims to create a vibrant environment where researchers from diverse fields—academia, industry, and education—can connect, collaborate, and implement innovative ideas that address global issues.
- **Transform Concepts into Impactful Actions :** It seeks to transcend traditional disciplinary boundaries, catalyzing breakthroughs that can be translated into practical solutions for pressing real-world challenges.
- **Create a Knowledge-Sharing and Innovation Platform:** WCMRI-2025 serves as a dynamic forum for presenting groundbreaking research and innovative approaches, encouraging the cross-pollination of ideas across disciplines
- **Align Science and Innovation for Sustainability :** Guided by the theme “Synergizing Science and Innovation for a Sustainable World,” the conference underscores the crucial link between innovation and sustainability

4th WCMRI – 2025 transcends traditional boundaries, providing a platform for comprehensive exploration across a multitude of disciplines. The conference encompasses a wide scope that includes, but is not limited to:

- **Engineering & Technology:** Emerging technologies, AI & Machine Learning, Smart Systems, Sustainable Engineering, etc.
- **Education & Pedagogy:** Curriculum innovation, e-learning tools, inclusive education, assessment models, educational leadership.
- **Science & Applied Research:** Environmental science, biotechnology, data science, nanotechnology, applied physics, and chemistry.
- **Social Sciences & Humanities:** Sociology, psychology, linguistics, history, philosophy, and cultural studies.

- **Management & Economics:** Strategic management, entrepreneurship, financial systems, marketing, human resource development.
- **Law & Public Policy:** Governance models, legal innovations, policy studies, and international relations.

2. Guest of Honor, Keynote Speakers, Session Speakers, Panel Discussion Speakers & Session Chairs

Guest of Honor



Mr. Siddh Kumar Chhajer
Founder & Managing Director,
IFERP, Technoarete Group, India.

Keynote Speakers



Dharnisha Narasappa
Sr. Network Architect
Versa Networks USA.



Dr. Anuj Kumar Gupta
Director Principal CGC
College of Engineering
Mohali, Punjab,
India.



**Assoc. Prof. Dr. Sathish Kumar
Selvaperumal**
School of Engineering
Asia Pacific University of Technology and
Innovation
Kuala Lumpur, Malaysia.



Professor Dr. Teik-Cheng Lim

Head, PhD (Engineering) and Master of Engineering Programmes,
School of Science and Technology,
Singapore University of Social Sciences,
Singapore.



Prof Dr. J. Somasekar

Professor and Program Head,
Department of CSE (AIDD),
JAIN (Deemed-to-be University
Bangalore, India.

Exclusive Keynote speaker



Dr. Siva Mahendran
Professor
Department of English
Curtin Singapore
Singapore

Session Speakers



Assoc. Prof. Dr. Abdul Rauf Ridzuan
Faculty of Communication & Media Studies
Universiti Teknologi MARA
Cawangan Melaka
Malaysia.



**Assoc Prof. Dr. A. Sai Ramesh, B.Tech.,
M.S., Ph.D., M.B.A. (Edu. Mgmt.)**
Department of Biotechnology,
Prathyusha Engineering College,
Chennai, India.



Dr. Hemin Ibrahim
Head of Cybersecurity Department
Faculty of Science
Tishk International University
Iraq.



Assoc Prof. Dr. Alireza Mohammadi

Associate Professor
City Graduate School,
City University Malaysia,
Selangor, Malaysia.



Dr. Nikolina Ljepava

Acting Dean – College of Business
Administration
The American University in the Emirates (AUE)
Dubai, United Arab Emirates.



Assoc. Prof. Ts. Dr. Rajermani Thinakaran

Faculty of Data Science and Information
Technology,
INTI International University & Colleges,
Nilai, Negeri Sembilan, Malaysia.



Dr. Saptorshi Das

Professor of English,
Alliance University,
Bangalore, Karnataka.

Panel Discussion



Dr. Siva Mahendran
Professor
Department of English
Curtin Singapore
Singapore



**Dr. Sivanesan Sivakaruniam CIA, CISA,
CRISC**
Managing Director,
Raffles Education Institute
(Singapore) Private Limited
Straits Tribe (Malaysia) Sdn Bhd



Ms. Nor Nazeranah Haji Omar Din
Program Coordinator & Senior Lecturer,
School of Management & Marketing,
Faculty of Business, Hospitality & Humanities,
Nilai University.
Malaysia

Session chairs



Ms. Nor Nazeranah Haji Omar Din
Program Coordinator & Senior Lecturer,
School of Management & Marketing,
Faculty of Business, Hospitality & Humanities,
Nilai University,
Malaysia



Dr. Amila N.K.K. Gamage
Associate Professor— Faculty of Management— LIGS
University
Associate Trainer— Avanta Global Pte Ltd, Singapore

Volunteer



Mrs Kogi Murthi
Bachelor of Health Sciences, University of
Sydney. ICNC, RN, Singapore
Ex Senior Lecturer/Lecturer Nursing;
Clinical Nurse Specialist, Clinical Educator,
Deputy GD, NM, HN, SSN

Moderator



Mr. Zihan Aw
Environmental Researcher, Evolutionary Biology & Ecology, Graduate
from the University of New South Wales

3. Welcoming & Introduction

Welcome to the 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025), where we gather the brightest minds and the most innovative ideas to inspire, educate, and connect. Before we dive into today's agenda, let's take a moment to appreciate the vibrant atmosphere here at Singapore. This location has been thoughtfully chosen to provide an inspiring environment for our discussions and networking. The theme of the 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025) is “ Synergizing Science and Innovation for a Sustainable World “.

Our objective is to explore new technologies in Multi-Disciplinary Research Studies and Education. Over the next two days, we have a packed schedule with two sessions, one panel discussion, and fifteen keynote presentations from industry leaders and experts. This conference would not be possible without the hard work and dedication of many individuals. We would like to extend a special thank you to our conference managers, and organizing committee members.

4. Welcome Speeches

4.1 Welcome Speech by Special Guest - Mr. A. Siddth Kumar Chhajer



Mr. Siddth Kumar Chhajer
Founder & Managing Director,
IFERP, Technoarete Group,
India.

4.2 Welcome Speech by Special Guest - Prof. Dr. J. Somasekar



Prof Dr. J. Somasekar

Professor and Program Head,
Department of CSE (AIDD),
JAIN (Deemed-to-be University),
Bangalore. India.

4.3 Welcome Speech by Special Guest – Dr. Teik-Cheng Lim



Professor Dr. Teik-Cheng Lim

Head, PhD (Engineering) and Master of
Engineering Programmes,
School of Science and Technology,
Singapore University of Social Sciences,
Singapore.

4.4 Welcome Speech by Special Guest – Dr. Siva Mahendran



Dr. Siva Mahendran

Professor
Department of English
Curtin Singapore
Singapore

4.5 Welcome Speech by Special Guest – Assoc. Prof. Ts. Dr. Rajermani Thinakaran



Assoc. Prof. Ts. Dr. Rajermani Thinakaran

Faculty of Data Science and Information
Technology,
INTI International University & Colleges,
Nilai, Negeri Sembilan, Malaysia.

5. Keynote Speeches

5.1 Speech by Keynote speaker - Prof. Dr. J. Somasekar



Prof Dr. J. Somasekar

Professor and Program Head,
Department of CSE (AIDD),
JAIN (Deemed-to-be University),
Bangalore. India.

5.2 Speech by Keynote speaker – Professor Dr. Teik-Cheng Lim



Professor Dr. Teik-Cheng Lim

Head, PhD (Engineering) and Master of
Engineering Programmes,
School of Science and Technology,
Singapore University of Social Sciences,
Singapore.

5.3 Speech by Keynote speaker – Dr. Siva Mahendran



Dr. Siva Mahendran
Professor
Department of English
Curtin Singapore
Singapore

5.4 Speech by Keynote speaker – Dr. Anuj Kumar Gupta



Dr. Anuj Kumar Gupta
Director Principal CGC
College of Engineering
Mohali, Punjab,
India.

5.5 Speech by Keynote speaker – Assoc. Prof. Dr Sathish Kumar Selvaperumal



**Assoc. Prof. Dr Sathish Kumar
Selvaperumal**
School of Engineering
Asia Pacific University of Technology and
Innovation
Kuala Lumpur, Malaysia.

5.6 Speech by Keynote speaker – Assoc Dr. Hemin Ibrahim



Dr. Hemin Ibrahim

Head of Cybersecurity Department
Faculty of Science
Tishk International University
Iraq.

5.7 Speech by Keynote speaker – Dr. A. Sai Ramesh



**Assoc Prof. Dr. A. Sai Ramesh, B.Tech.,
M.S., Ph.D., M.B.A. (Edu. Mgmt.)**

Department of Biotechnology,
Prathyusha Engineering College,
Chennai, India.

5.8 Speech by Keynote speaker – Assoc Prof. Dr. Alireza Mohammadi



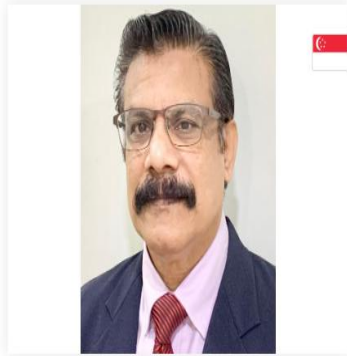
Assoc Prof. Dr. Alireza Mohammadi

Associate Professor
City Graduate School,
City University Malaysia,
Selangor, Malaysia.

6. Panel Discussion on Innovation Without Borders: Uniting Science for Global Sustainability

Panel Discussion Speakers

Title: Innovation Without Borders: Uniting Science for Global Sustainability



Dr. Siva Mahendran

Professor
Department of English,
Curtin Singapore,
Singapore.



**Dr. Sivanesan Sivakaruniam,
CIA, CISA, CRISC**

Managing Director,
Raffles Education Institute (Singapore) Private Limited &
Straits Tribe (Malaysia) Sdn Bhd.



**Ms. Nor Nazeranah Haji Omar
Din**

Program Coordinator & Senior Lecturer,
School of Management & Marketing,
Faculty of Business, Hospitality & Humanities,
Nilai University, Malaysia.

7. Group Photo



8. Inaugural Programme

The inaugural program of the 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025), Singapore on 17th & 18th July, 2025, conference sets the tone for the entire event, providing an opportunity to introduce the theme, objectives, and key participants. The inaugural program included inaugural addresses, proceedings release, Memento ceremony & Institutional Membership Benefits etc. The inaugural program was a crucial part of the conference, serving to welcome and engage participants, set the context for discussions, and recognize the contributions of key individuals.

9. Conference Proceedings Book Release

The 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025) Conference proceedings was a comprehensive collection of the papers presented at the 4th WCMRI – 2025. The Conference Proceedings serve as a valuable record of the research and discussions that occurred during the 4th WCMRI – 2025 conference, providing insights into current trends, innovations, and the future direction of multidisciplinary research studies, Engineering, Social Sciences and Humanities

On behalf of the organizing committee of the 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025), the conference proceedings was released.





4th WORLD CONFERENCE

ON MULTIDISCIPLINARY RESEARCH & INNOVATION

17th & 18th July 2025

Singapore

Organized by **IFERP Academy**

12.2
CPD
CREDIT HOURS

The CPD Standards Office
CPD PROVIDER: 45182
2024-2026
www.cpdstandards.com



#IFERPsupportsSDGs



<https://www.iferp.in/past-conferences.php>

10. Memento Ceremony

The conference speakers, session speakers, & session chairs were awarded with Momentos.



11. Technical Presentation Sessions

11.1 Technical Presentation Session 1 A

11.1.1 Speech by Session Speaker Assoc. Prof. Ts. Dr. Rajermani Thinakaran



Assoc. Prof. Ts. Dr. Rajermani Thinakaran

Faculty of Data Science and Information
Technology,
INTI International University & Colleges,
Nilai, Negeri Sembilan, Malaysia.

11.1.2 – 11.1.13 Total 13 Scientific Presentations were presented in the Technical
Presentation Session 1 A

12. Technical Presentation Sessions

12.1 Technical Presentation Session 2 A

12.1.1 Speech by Session Speaker Dr Nikolina Ljepava



Dr. Nikolina Ljepava

Acting Dean – College of Business
Administration
The American University in the Emirates (AUE)
Dubai, United Arab Emirates.

12.1.2 Speech by Session Speaker Assoc. Prof. Dr. Abdul Rauf Ridzuan



Assoc. Prof. Dr. Abdul Rauf Ridzuan

Faculty of Communication & Media Studies
Universiti Teknologi MARA
Cawangan Melaka
Malaysia.

12.1.3 Speech by Session Speaker Dr Saptorshi Das



Dr. Saptorshi Das

Professor of English,
Alliance University,
Bangalore, Karnataka.

12.1.4 – 12.1.13 Total 13 Scientific Presentations were presented in the Technical Presentation
Session 2 A

13. Award Ceremony - Best Paper Presentation Awards



Photo	Name	Paper Title
	Mutia Nurul Makhfirah, Department of Tourism Studies, Gadjah Mada University	Post-Disaster Tourism Infrastructure in Indonesia: Sustainable Recovery and Resilience After Tsunami and Earthquake.
	Rashmi Sali Assistant Professor, Architecture, KLE Technological University	Sustainable and Disaster Resilient Infrastructure

14. Valedictory Function

14.1 Conference - Conclusion Summary

The 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025), held on 17th & 18th July, 2025, at Singapore organized by IFERP Academy brought together a diverse group of experts, practitioners, and enthusiasts from various fields. The central theme of the conference was " Synergizing Science and Innovation for a Sustainable World " and it successfully fostered a collaborative environment for sharing knowledge, insights, and advancements to achieve SDGs.

Key Highlights:

The conference commenced with an inspiring Special Guest of Speech by Mr. Siddth Kumar Chhajer, MD & Founder, Technoarete Group, who emphasized the importance of multidisciplinary conferences, collaboration and innovation, QS University World Rankings and Times Higher Education (THE) University World Rankings. Keynote Speakers highlighted the recent

breakthroughs and the potential for future developments in Multidisciplinary and Current Educational Research.

Research Presentations:

Over 186 research papers were presented, covering a wide range of topics. These presentations showcased cutting-edge research and fostered lively discussions.

Networking Opportunities:

The conference facilitated numerous networking events, allowing attendees to connect with peers, potential collaborators, and industry leaders. The virtual and in-person networking sessions were particularly well-received, enhancing professional relationships and sparking new partnerships.

Achievements and Outcomes:

- Several new collaborative initiatives were announced, aiming to address global challenges. These initiatives will leverage the collective expertise and resources of participating organizations.
- Publication of Proceedings including the conference proceedings, including research papers and keynote addresses, will be published. Future Conferences: Plans for the next conference were discussed, with suggestions for topics and formats that could further enhance engagement and impact.

Closing Remarks:

In the closing session, IFERP Academy expressed its gratitude to all the participants, academic partners, sponsors, and organizers. IFERP Academy highlighted the conference's success in achieving its objectives and underscored the importance of continued collaboration and innovation. Attendees left with a sense of accomplishment and a renewed commitment to advancing in their fields.

The conference concluded on a high note, with participants energized and motivated to apply the insights gained to their respective fields. The event not only celebrated current achievements but also set a forward-looking agenda for future research and development.

15. Vote of Thanks

Dear Researchers, Academicians & Students,

As we draw to the close of this remarkable 4th World Conference on Multidisciplinary Research & Innovation (4th WCMRI - 2025), it is our honor and privilege to extend a vote of thanks on behalf of the organizing committee. Today has been a day filled with insights, inspiration, and invaluable networking opportunities, and none of this would have been possible without the collective efforts of many individuals and organizations.

Firstly, we would like to express our deepest gratitude to our esteemed speakers. Your expertise, thoughtful presentations, and engaging discussions have been the highlight of this conference. You have not only enlightened us with new knowledge but have also inspired us to think critically and creatively about the challenges and opportunities in our field.

A special thanks to our dedicated organizing committee and volunteers. Your hard work behind the scenes, meticulous planning, and tireless efforts have ensured that everything ran smoothly. Your passion and dedication are truly commendable, and this event could not have happened without you. We are also grateful to our attendees. Your active participation, thoughtful questions, and enthusiastic engagement have added great value to this conference. It is your eagerness to learn and share that makes the events like this so rewarding and worthwhile.

We would like to acknowledge the venue staff for their excellent service and hospitality, providing us with a comfortable and conducive environment for our discussions and networking.

Finally, I want to thank everyone who has contributed, in big ways and small, to the success of this conference. Whether you were a speaker, sponsor, attendee, or volunteer, your involvement has been crucial.

As we conclude, let us take with us the knowledge we have gained, the connections we have made, and the inspiration to drive forward in our respective fields. We look forward to seeing you at future conferences and continuing these valuable conversations.

16. Conference Glimpses





17. General Comments & Feedbacks

Overall Comments of the Participants:

- Organizing and Coordination of the conference was excellent and professional.
- Speakers were no doubt enriching.
- Overall, an excellent International Conference.
- Panel Discussion was very interactive
- The introduction of the conference program was so effective that it distracts you from the research topic
- Keynote speakers talks were worth listening.
- Issues were resolved carefully.