Core Research Foundation

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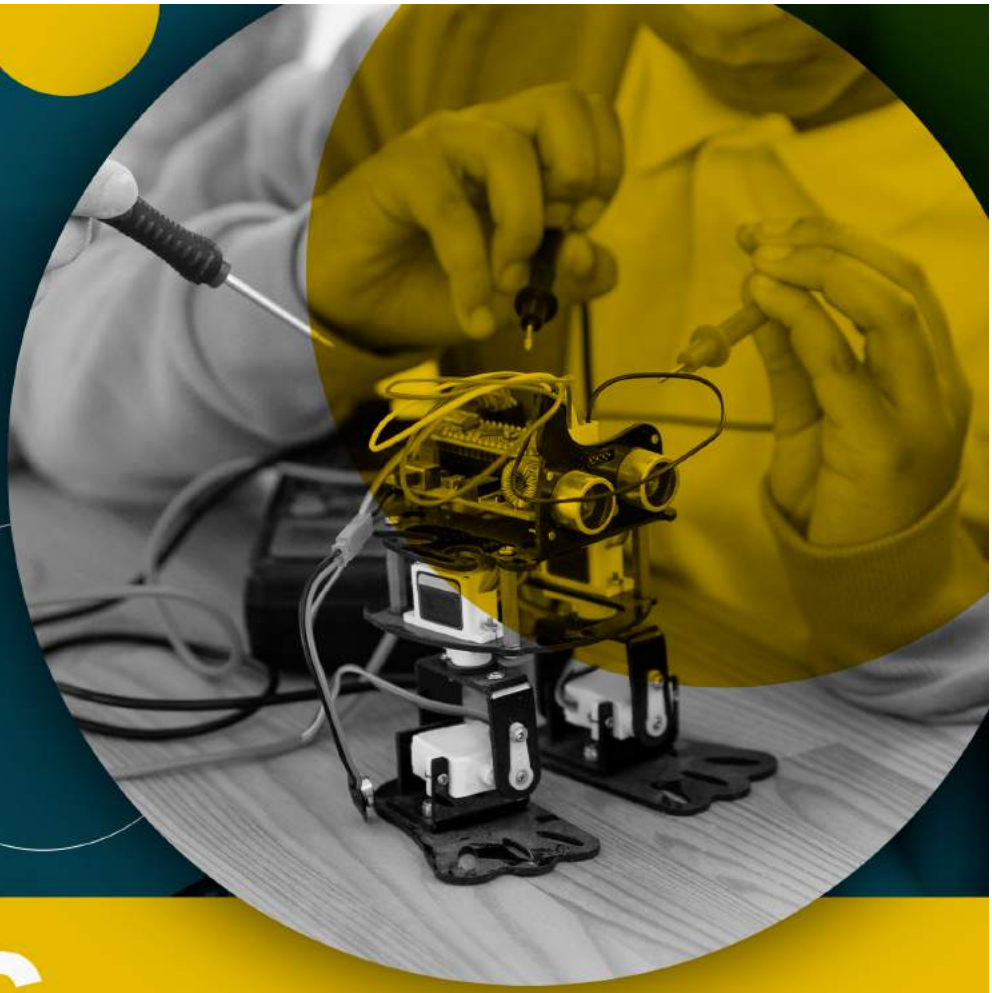

I4C Industry 4.0 Conference

Transforming Tomorrow: Navigating the Digital Revolution of Industry 4.0

Kuala Lumpur, Malaysia

26th–27th, July, 2024

About the Conference

The Industry 4.0 Conference is a significant event that focuses on the advancements and implications of the Fourth Industrial Revolution, often referred to as Industry 4.0. This revolution encompasses the integration of digital technologies, automation, artificial intelligence, the Internet of Things (IoT), cloud computing, and other innovative technologies into industrial processes and manufacturing.

Overall, Industry 4.0 Conferences play a crucial role in shaping the future of industries by facilitating collaboration, knowledge exchange, and innovation in the rapidly evolving landscape of digital manufacturing and automation. These events are essential for stakeholders across various sectors to stay informed, connected, and competitive in the era of Industry 4.0.

About CRF

Core Research Foundation, an Indian company, has accredited Core Research Foundation (CRF) as a research platform. At CRF, our mission is to give eminent organizations, scholars, and researchers an exceptional platform. By offering conference and journal publication services, we hope to foster an atmosphere that promotes knowledge scalability and meet the needs of our affiliated members. The new research platform for academics, researchers, and scientists is called Core Research Foundation, or CRF. With the aid of various academic activities, CRF establishes

links and collaborates with international research houses and institutions to supply knowledge scalability and research improvements.

Objective of the Conference

★ **Knowledge Sharing:** These conferences provide a platform for experts, researchers, professionals, and industry leaders to share knowledge, insights, and experiences related to Industry 4.0 technologies and their applications across various sectors.

★ **Networking:** They offer opportunities for networking, collaboration, and partnerships among attendees from different industries, academia, and government agencies, fostering connections that can lead to innovative solutions and business opportunities.

★ **Education and Awareness:** Industry 4.0 Conferences often aim to raise awareness about the potential benefits, challenges, and implications of adopting advanced technologies in manufacturing and other sectors. They may include keynote speeches, panel discussions, workshops, and exhibitions to educate participants about the latest trends, best practices, and emerging opportunities in the field.

★ **Policy and Regulation:** These conferences may also address policy considerations, regulatory frameworks, and ethical issues related to the implementation of Industry 4.0 technologies, ensuring that advancements are aligned with societal needs, safety standards, and legal requirements.

★ **Market Trends and Insights:** Industry 4.0 Conferences provide valuable insights into market trends, investment opportunities, and the competitive landscape within the Fourth Industrial Revolution, helping businesses and organizations make informed decisions about technology adoption, innovation strategies, and digital transformation initiatives.

Why to Choose CRF

Core Research Foundation is the fastest growing Research platform in India among other platforms. We are providing Publication facilities in various journals including Scopus, Clarivate, SCI, SCIE, Pubmed etc.

1. **Interdisciplinary Perspective:** The combination of management and social sciences in one conference provides a platform for interdisciplinary discussions. This can lead to a more comprehensive understanding of complex issues by integrating perspectives from both fields.

2. **Networking Opportunities:** Conferences bring together pro fessionals, academics, and researchers from various backgrounds. Attending the International Conference on Management and Social Sciences can provide ample networking opportunities to connect with individuals who share interests in both management and social sciences.

3. **Diverse Range of Topics:** The inclusion of both management and social sciences broadens the scope of topics covered at the conference. This diversity allows for a wide range of presentations and discussions, catering to a broader audience.

4. **Holistic Problem-Solving:** Many real-world challenges require a holistic approach that considers both organizational management and societal implications. This conference can facilitate discussions on how these two domains intersect and contribute to comprehensive problem-solving.

5. **Knowledge Integration:** Participants can gain insights into how management practices intersect with social, cultural, and economic factors. This integration of knowledge can lead to innovative solutions and a deeper understanding of the implications of management decisions on society.

6. Publication Opportunities: Conferences often provide opportunities for participants to publish their research. The International Conference on Management and Social Sciences may offer avenues for researchers to disseminate their work in journals that cater to both disciplines.

7. Global Perspectives: By focusing on international aspects, this conference may attract participants and presenters from around the world, providing a global perspective on management and social science issues.

Session and Tracks

1. Industry 4.0 / 5.0:

- Design principles in Industry 4.0 / 5.0
- Industrial Big Data and Analytics
- Industrial Internet of Things (IoT)
- Smart Manufacturing and Technologies
- Smart Factories
- Smart Devices and Products
- Cyber-physical Systems
- Cloud Computing and Manufacturing
- Machine Learning and Artificial Intelligence in Manufacturing
- Digital Production and Virtual Engineering
- Soft Measurements and Computing

2. Automation:

- Automatic Control
- Control Theory and Applications
- Linear/Nonlinear/Optimal Control
- Adaptive/Robust Control
- Control Devices and Instruments
- Components and Technologies for Control

- Programmable Logic Controllers (PLC)
- Control System Modeling and Simulation
- Fuzzy-logic and Artificial Neural Networks in Control Systems
- Emerging Trends in Automation and Control Industry
- Industrial Automation and Control
- Manufacturing Systems and Automation Process
- Automation Process Control and Monitoring
- Telematics
- CAD / CAM / CIM / SCADA
- Computers for Control
- Computational Intelligence in Control
- Information Control in Manufacturing
- Intelligent Traffic Control
- Chemical Process Control
- Control in Agriculture, Biological and Medical Systems
- Modeling and Control of Environmental Systems
- Artificial Intelligence for Cyber-Physical Systems in Automation
- Machine Learning in Control Applications
- Education and Training in Automatic Control and Systems

3. Robotics

- Industrial Robots
- Soft Robots
- Biorobotics and Medical Robots
- Sensors for Robots
- Mobile Robots
- Humanoid Robots
- Human-Robot Interaction
- Rehabilitation robotics
- Intelligent Robots & Systems
- Mechatronic Systems
- Multimodality Human-machine Interaction

- Robot Control and Learning
- Cognitive Approach for Robotics
- Flexible Automation
- Emerging Trends in Robotics Industry
- Industrial and Manufacturing Trends in Robotics
- Autonomous Systems and Drones
- Unmanned aerial vehicles (UAV)
- Robots for Space Exploration
- Robotics in Defense
- Underwater Robots Network Robotics
- Telerobotics
- Nanorobotics

4. Communications

- Industrial Communication Technologies and Systems
- Emerging Trends in Communication Industry
- Industrial Networks and Automation
- Real-Time and Networked Embedded Systems
- Network Control and Security
- Web-enabled Manufacturing Control and Wireless Automation
- Wireless Sensor Networks for Robot Navigation
- Distributed Networks
- Network Architectures and Protocols
- Intelligent Network Components
- Next Generation Networks
- Communication Theory, Protocols and Signal Processing
- Telecommunications
- Telecommunications in Smart Cities
- Wireless and Mobile Communications
- 3G and 4G Mobile Communications Services

- Satellite and Space Communications
- Global Navigation Satellites Systems
- Sensor, Mesh, and Ad hoc Networks
- Underwater Sensor Networks
- Radio Communications Systems
- Energy Harvesting and Power Management in Communication Systems
- Telemetry and Telecontrol

Panel discussion

1. Wireless Communication Security for Industry 4.0/5.0

- Physical layer security (PLS)
- Radio Frequency (RF) fingerprinting
- Physical principles of PLS and RF fingerprinting
- Design and implementation of PLS and RF fingerprinting
- Performance analysis of PLS and RF fingerprinting
- Applications and use-cases for PLS and RF fingerprinting
- in Industry 4.0/5.0
- New trends in wireless communication security for industry 4.0/5.0
- Security in smart manufacturing, smart buildings and smart cities

2. Machine Development for New Manufacturing Processes

- Hardware aspects in machine design
- Retrofitting
- Sensors integration in manufacturing processes
- IIoT and edge computing
- Machine control software
- Machine-to-machine, machine-to-human, and machine-to-system communication
- Case Studies and Best Practices
- Efficiency, precision, and safety in manufacturing

3. Integrating Human Factors in Operation Management Models

- Human-Centered Supply Chain Design
- Assessment and integration of human factors in planning, forecasting, predictive, and scheduling models
- Assessment of employee Engagement in Industry 4.0 practices
- Integration of Lean and Industry 4.0 Practices

4. Cooperative and Multi-Agent Systems

- Decentralized decision-making
- Coordination in multi-agent systems
- Multi-robot systems
- Scheduling and resource allocation
- Consensus and containment in multi-agent systems
- Formation and surrounding in multi-agent systems
- Multi-sensor and distributed sensing
- Fault-tolerant multi-agent systems
- Adaptive and robust methods in multi-agent systems
- Internet of Things and Artificial Intelligence (AI) in multi-agent systems

About the City

Kuala Lumpur is the capital of Malaysia. Its modern skyline is dominated by the 451m-tall Petronas Twin Towers, a pair of glass-and-steel-clad skyscrapers with Islamic motifs. The towers also offer a public skybridge and observation deck. The city is also home to British colonial-era landmarks such as the Kuala Lumpur Railway Station and the Sultan Abdul Samad Building.






Keynote Speakers

Dr. Murali Raman
Deputy Vice Chancellor,
Asia Pacific University of
Technology and Innovation,
Malaysia

Dr. Myla M. Arcinas
Associate Professor,
De La Salle University,
Philippines

Prof.(Dr.) Sherif Ismail
Associate Professor V,
Cavite State University-
IMUS Campus, Philippines

Shri Ashish Chugh
Assistant Director
General National Centre
for Communication Security,
Bengaluru, India

Dr. Eng. Neyara Radwan
Industrial Engineering Dept.,
Al Maarefa University,
Saudi Arabia & SCU Egypt

Conference Chair

Dr. Affendy Abu Hassim
Associate Professor UniKL Business School,
Malaysia

SCAN TO KNOW MORE

01 ~~Early Bird Registration~~
~~17th June 2024~~

02 Abstract Submission
24th June 2024

03 Full Paper Submission
26th June 2024

04 Registration Deadline
28th June 2024

About the Venue

Holiday Inn Express Kuala Lumpur City Centre, an IHG Hotel
Address: 84, Jalan Raja Chulan, Kuala Lumpur, 50200 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia

Our Success

Upcoming Conferences on 2024

Month	Conference Name	Location	Date
August	MEET	Seoul	August 13-14
September	MEET	Dubai	September 20-21
October	WCLER	Bali	October 18-19
November	MEET	Turkey	November 15-16
December	ICEMSS	Bangkok	December 20-21

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