

# 16<sup>th</sup> International Conference on Engineering, Technology and Management (ICETM - Jan' 2023)

20 - 22, Jan' 2023, Langkawi, Malaysia

Two Best paper awards are given in each track

**ICEEIT:**

Electrical, Electronics and IT

**ICPMC:**

Production, Mechanical and Civil Engineering

**ICMES:**

Management, Education and Social Sciences

**Committee**

**Venue**

**Final Program**

**Downloads**

**Accommodation**

## ■ Call for Papers

The International Conference on Engineering, Technology and Management (ICETM – Jan' 2023) is being organized by **WAIRCO** (*World Academic – Industry Research Collaboration Organization*). The ICETM – Jan' 2023 conference will provide a platform to the Researchers, Engineers, Managers, Academicians and Industry Executives to share their ideas and views on the advances of Management, Science Engineering (Electrical, Electronics, Communication, Production, Mechanical, Civil), Education, Information Technology and Social Sciences Research areas. The ICETM – Jan' 2023 is organizing the International Academic Conference in the below Multiple Disciplines. It is important for the students, academic staffs and researchers to keep improving the technology to be up-to-date and suitable for the required applications. The research findings must therefore be distributed among the researchers and to the respective communities.

1. International Conference on Management, Education and Social Sciences (ICMS)
2. International Conference on Science and Technology (ICST)
3. International Conference on Engineering & Information Technology (ICEIT)

## ➤ **ICMES: International Conference on Management, Education and Social Sciences**

### ■ Areas of Interest under Commerce and Management

- Accounting
- Banking Control & Supervision
- Best practices
- Brands and Branding
- Corporate Ethics and Governance
- Corporate Valuation and IPOs
- Design thinking
- Disaster Management
- E-Commerce and Entrepreneurship
- Entrepreneurship development
- Environmental Protection & Public Policy
- Finance, Economics and Hedge Funds
- Foreign Direct Investment
- Foreign Exchange Market
- Harmonization of Indian Accounting Standard with International accounting standards
- Hospitality Management
- HR challenges in Covid times
- Human Capital, Creativity & Innovation
- Impact of Global Crisis in Present Scenario
- Industry 4.0
- Industrial marketing
- Innovations
- Insurance and Takaful
- Intellectual Property and Rights
- International Accounting Standards
- International business
- International Financial reporting
- Internet Banking and Emerging Markets

- Knowledge Management
- Labour relations
- Leadership, Total quality control in Business
- Managing Risk, Corporate Social Responsibility
- Marketing and Market entry
- Marketing skills and strategies
- Networking and Outsourcing
- New Product Development
- Organized Retailing
- Quality management and accreditations

- Rebuilding MSME
- Recent developments in Accounting
- Resource Management
- Rural management
- Supply Chain Management
- Sustainable Development
- Technology Transfer and Management
- Venture Capital and Private Equity
- Workforce development
- Any other topic related to Management and its Applications

## ■ Areas of Interest under Education

- Building E-Learning Architectures
- Current issues in Science Education
- Developing, Integrating, and Delivering E-Learning
- Developing and Organizational E-Learning Strategy
- Distance Education
- E-Learning Content Development
- E-Learning Evaluation
- E-Learning Tools and Systems
- Electronic Publishing Tools for E-Learning
- Engaging Students with the World Digital and Global Discovery Online

- Global Education System
- ICT in Teaching and Learning Process
- Impact of ICT tools used in Education
- ICT in Collaborative Learning
- ICT in Educational Technology
- Interactive E-Learning Systems
- Knowledge Management in E-Learning
- Methods and Procedures for the Global Classroom
- Science teaching based on Local Wisdom
- Specific ICT Tools used in Education
- Virtual Universities, Classrooms and Laboratories
- Other areas on Education

## ■ Areas of Interest under Social Sciences

- Emerging Trends in
  - History
  - Economics
  - Political Science
  - Public Administration
  - Ancient history and Archeology
  - Journalism and Mass communication
  - Sociology
  - Anthropology
  - Education
- Agricultural Productivity and Agricultural & Rural Sustainability
- Climate Change and the Future
- Environmental Studies

- Environment of Sustainable Human and Social Development
- Ethnic / International Studies
- Food Security, Quality and Sovereignty
- Heritage Management
- Human & Social Rights
- ICT in Social Sciences and Education
- SMEs and Gender issues in the region
- Sustainable Management of Water and Air Resources
- Women in Traditional Society
- Urban Heat Island issues
- Any other topic related to Management and Social Sciences

## ➤ *ICST: International Conference on Science & Technology*

### ■ Areas of Interest under Health Sciences

- Application of biotechnology and modern science for management of diseases
- Bioactive molecules and nutraceuticals for healthcare
- Challenges in food chain from farm to folk
- Enrichment of foods through nutrients
- Food, Nutrition and Public Health
- Health and Wellness through Ayurveda

- Millets in food and nutritional security
- Nanotechnology and today's food
- Novel and functional foods for health
- Nutraceutical properties of foods
- Value added foods and health benefits
- Any other topic related to Health Sciences and its Applications

## ■ Areas of Interest under Environment Sciences

- Climate Change
- Environmental Management System
- Environmental Pollution and Public Health
- Integrated Water Resource Management
- Limnology
- Occupational Safety and Health
- Solid Waste Management
- Sustainable Development
- Wastewater Treatment and Reuse
- Wetland Restoration
- Any other topic related to Environment Science and its applications

## ■ Areas of Interest under Basic Sciences

### ➤ Mathematics / Statistics

- Algebra
- Algebraic Topology
- Advanced Calculus
- Advanced Numerical Methods
- Bayesian
- Bio Fluid Dynamics
- Biostatistics and Bioinformatics
- Calculus and Trigonometry
- Complex Analysis
- Computational Fluid Dynamics
- Computational Statistics
- Control Theory
- Cryptography
- Design Experiment
- Differential Topology
- Differential Geometry
- Dynamical Systems, Chaos and Fractals
- Econometrics
- Fluid Dynamics and Applications
- Fourier Transformation and its applications
- Fractional Differential Equations
- Real and Functional Analysis
- Fuzzy Logic
- General Topology
- Genetic Algorithms
- Graph Theory and its applications
- Linear and Modern Algebra
- Linear Programming Models
- Mathematical Modelling
- Mathematical Statistics
- Markov Chains and Applications
- Multivariate Analysis
- Non-linear Analysis
- Non-linear Programming Models
- Number Theory
- Numerical Analysis
- Official Statistics
- Operations Research
- Optimization Techniques
- Ordinary Differential Equations
- Partial Differential Equations
- Probability
- Probability and Queuing Theory
- Random Processes
- Regression (including non-parametric)
- Rough Set and Super Set
- Singular Perturbation Theory
- Spatial Statistics
- Statistics Process Control
- Stochastic
- Stochastic Differential Equations
- Stochastic Modelling
- Time Series and Data Mining
- Univalent Functions
- Any other topic related to Mathematical and Statistical Applications

### ➤ Physics

- Advances in Instrumentation and Techniques
- Applications of Microscopy in the Physical Sciences
- Applied Material Science & Engineering
- Applied Non-linear Physics
- Applied Optics, Non-linear Optics, Laser Physics, Ultrafast Phenomena, Lasers application to Medicine / Chemistry
- Applied Solid State Physics
- Astrophysics and Plasma Physics
- Atomic, Molecular and Chemical Physics
- Bio Physics, Bio (electro) Magnetism, Biophysical Chemistry
- Biological / Medical Physics, Health Physics
- Computational Physics, Non-linear Physics
- Condensed Matter Physics
- Condensed Matter Physics and Materials Science

- Engineering and Industrial Physics, Instrumentation, Metrology and Standards
- Environmental Physics
- Imaging Techniques, Microscopy
- Large-code Development
- Laser & Optical Fiber in Sensor applications
- Medical Physics
- Nano Technology – Material Fabrication and Characterization
- Nanoscale Physics
- Nuclear Physics/Chemistry, Radioactivity, Radiochemistry, Radiation Safety
- Optical Physics
- Particle Physics
- Petascale Computing
- Physical Chemistry

- Physical Properties of Biological/Biomedical Systems through Microscopy
- Plasma Physics
- Polymers
- Quantum Electronics and Photonics
- Quantum Physics
- Quantum Monte Carlo
- Radars and Lidars Atmospheric Science
- Radiation Physics/Chemistry, Radiation Processing, Radiation-Matter Interaction, Spectroscopies
- Solid State Physics
- Spectroscopy – Techniques for Structural Determination of Various Materials
- Surfaces, Interfaces and Colloids
- Any other topic related to Physics and its applications

## ➤ Chemistry

- Analytical Techniques
- Applied and Industrial Chemistry
- Biochemical and Bio-molecular engineering
- Bioengineering and Biomedical Engineering
- Biological and Medicinal Chemistry
- Catalysis & Reaction Engineering
- Chemical Engineering Educational Challenges and Development
- Chemical Engineering Equipment Design and Process Design
- Chemical Engineering Fundamentals
- Chemical Reaction Engineering
- Crystallization
- Distillation, Absorption and Extraction
- Green Chemistry
- Interfacial & Colloidal Phenomena

- Ionic liquids / Electrolyte solutions
- Membranes and Membrane Science
- Multifase flows
- Natural Product and Herbal Medicine
- Organic Synthesis
- Particulate Systems
- Physical, Theoretical and Computational Chemistry
- Physical Chemistry and Thermodynamics for Life Sciences and Biotechnology
- Rheology
- Thermodynamics
- Transport Phenomena in Porous / Granular Media
- Any other topic related to Chemistry and its applications

## ■ Areas of Interest under Microbiology and Bio Technology

- Advances in chemical, physical and material sciences
- Bio-prospecting and biotechnology for sustainable development
- Climate change: Challenges and Preparedness
- COVID – 19 Epidemiology, impact and responses
- Emerging and re-emerging diseases: Challenges for Healthcare
- Microbiome and its effects on human health and well-being
- Product Engineering in the Bio Industries
- Sustainable and Climate Smart Agriculture systems
- Any other topic related to Microbiology and Bio-Technology and its applications

## ➤ ICEIT: International Conference on Engineering and Information Technology

### ■ Areas of Interest under Electrical Engineering

- Applications of FACTS devices
- Artificial Intelligence and applications to Electrical Engineering
- Control Engineering
- Electric Power System and Automation
- Electrical Distribution Systems
- Electrical Machines and Analysis
- Energy and Power Systems
- Energy Engineering and Management
- HVDC & HVAC Transmission
- Innovative Techniques in Fusion Energy
- Innovative Techniques in Nuclear Energy

- Instrumentation and Control
- Magnetic Properties
- Non Conventional Energy Sources
- Power Electronics and Power Drives

- Power Quality
- Power System Operation & Control
- Any other topic related to Electrical Engineering

## ■ Areas of Interest under Electronics and Communication Engineering

- Analog circuits and digital circuits
- Antenna and wave propagation
- Applications of FACTS devices
- Artificial Intelligence and application to Electrical Engineering
- Communication Theory
- Control Engineering
- Electric Power System and Automation
- Electrical Machines and Analysis
- Embedded systems and Microelectronics
- Energy and Power Systems
- Energy Engineering and Management
- Filters and data conversion circuits
- HVDC Transmission & HVAC Transmission
- Innovative Techniques in Fusion Energy
- Instrumentation and Control
- Magnetic Properties
- MEMS and Nanotechnology

- Microwave theory and techniques
- Mixed signal circuits
- Modulation, coding, and channel analysis
- Nanomaterial Engineering
- Non Conventional Energy Sources
- Optical communications
- Photonic and optoelectronic circuits
- Power Electronics and Power Drives
- Power Quality
- Power System Operation & Control
- RF and wireless circuits
- Sensor networks
- Signal processing
- Telecommunications engineering
- VLSI design
- Wireless/Mobile communication
- Other topics related to Electronics and Communication Engineering

## ■ Areas of Interest under Production Engineering

- Acoustics and Noise Control
- Advanced and Digital Manufacturing
- Advanced Energy Systems
- Aerodynamics & Aerospace Engineering
- Applied Mechanics
- Artificial Neural Networks, Fuzzy Systems, and Hybrid Systems
- Automation, Mechatronics and Robotics
- Automotive Systems
- Ballistics
- Bioengineering and Biomedical Engineering
- Biomechanics
- Composite and Smart Materials
- Compressible Flows
- Computational Mechanics
- Computational Techniques
- Controls
- Design
- Dynamical Systems
- Dynamics and Vibration
- Energy Engineering and Management
- Engineering & Advanced Materials
- Engineering Systems Design and Analysis
- Fatigue and Fracture
- Fluid Dynamics
- Fluid Mechanics and Machinery
- Fluids Engineering
- Fracture
- Fuels and Combustion
- Heat, Heat Transfer and Mass Transfer

- Instrumentation and Control
- Internal Combustion Engines
- Machinery and Machine Design
- Manufacturing and Production Processes
- Marine System Design
- Material Science and Processing
- Mechanical Power Engineering
- Mechatronics
- MEMS and Nano Technology
- Micro and Nano Technology
- Multibody Dynamics
- Nanomaterial Engineering
- Naval Architecture and Engineering of Marine Systems
- New and Renewable Energy
- Noise and Vibration
- Mechanical Design
- Nonlinear Dynamics & Structural Dynamics
- Optical Engineering
- Plasticity Mechanics
- Pollution and Environmental Engineering
- Precision mechanics, mechatronics
- Production Technology
- Quality assurance and environment protection
- Resistance and Propulsion
- Robotics, Automation and Control
- Structural Dynamics
- Any other topics related to Production Engineering and its applications

## ■ Areas of Interest under Mechanical Engineering

- Advanced Thermal Control Technologies
- Applied Mechanics
- Automation, Mechatronics and Robotics
- Automotive Engineering
- CAD/CAM/CIM
- Composite and Smart Materials
- Compressible Flows
- Fluid Mechanics and Machinery
- Fuels and Combustion
- Heat and Mass Transfer
- High Capacity Heat Rejection Systems
- Industrial and Systems Engineering
- Internal Combustion Engines
- Machinery and Machine Design
- Manufacturing and Production Processes
- Marine System Design
- Material Science and Processing
- Materials for Energy and Environmental Applications
- Mechanical Power Engineering
- Production Technology
- Robotic Automation and Control
- Solid Mechanics
- System Dynamics and Simulation
- Any other topic related to Mechanical Engineering

## ■ Areas of Interest under Civil Engineering

- Biomedical waste management
- Disaster Management and Mitigation
- Earth Quake Design of Structures
- Environmental Impact assessment
- Green Building concept
- Ground improvement Techniques
- Ground water Modeling
- High Performance Self Compacting Concrete
- Innovative housing design and Technologies
- Intelligent transport system
- Material Handling in Construction site
- Nano Technology in Civil Engineering
- Modern Construction Equipments and Practices
- New Composite materials and structures
- Quality Management, Control and Assurance
- Remote Sensing and GIS Applications
- Safety In construction
- Smart Structures and Smart Materials
- Soil Structure Interaction
- Special concrete
- Structural Health monitoring and Control
- Waste water and water Engineering
- Water resources management
- Any other topic related to Civil Engineering

## ■ Areas of Interest under Computer Science & Information Technology

- Artificial Neural Networks, Fuzzy Systems, and Hybrid Systems
- Big Data Analytics
- Big Data Intelligence
- Building E-Learning Architectures
- Cloud and Edge Computing
- Computational Intelligence and Evolutionary Computation
- Computer Graphics & Gaming Applications
- Computer Science and Engineering
- Crowd-sensing, Human-centric sensing
- Data and Network Outsourcing Services
- Data Communication, Computer Network and Security & Forensic
- Data Structures and its Applications
- Database Management Systems and its Applications
- Data mining, knowledge Discovery, and Knowledge Management
- Decision Support and Recommender Systems
- Developing and Organizational E-Learning Strategy
- Developing, Integrating, and Delivering E-Learning
- Edge Intelligence and Industry 4.0
- E-Learning Evaluation
- E-Learning Tools and Systems
- E-Learning Content Development
- Electronic Publishing Tools for E-Learning
- Engaging Students with the World Digital and Global Discovery Online
- Global Education Systems
- Human Computer Interaction
- ICT in Collaborative Learning
- ICT in Educational Technology
- ICT in Teaching and Learning Process
- Impact of ICT on Learning and Achievements
- Image Processing and Pattern Recognition
- Industrial IoT
- Information Retrieval, Natural Language
- Information Technology and Computer Education
- Innovative Agriculture Process
- Interactive E-Learning Systems
- Internet of Things (IOT)

- Knowledge Management in E-Learning
- Methods and Procedures for the Global Classroom
- Mobile and Wearable devices
- Processing, and Ontology
- Real Time Operating Systems and its Applications
- Security threats in Smart Cities
- Smart Agriculture & Farming
- Smart Cities and Future challenges
- Smart Grids
- Smart Healthcare system
- Smart Ubiquitous Computing and Smart Ubiquitous Networks
- Social Intelligence, AI and Social Cognitive Systems
- Social networks, Mobile computing
- Social networks and E-Commerce
- Software Engineering and Software Development
- Specific ICT Tools used in Education
- Virtual Universities, Classrooms and Laboratories
- Web Application and Web Service
- Any other topic related to Computer Science, IT, ICT and its Applications

<b>Important Dates</b>	:	<b>Early Round</b>	<b>Final Round</b>
Paper Submission Deadline for Review	:	10 <sup>th</sup> Sep' 2022	10 <sup>th</sup> Nov' 2022
Decision Notification	:	30 <sup>th</sup> Oct' 2022	30 <sup>th</sup> Nov' 2022
Early Bird Registration	:	30 <sup>th</sup> Nov' 2022	15 <sup>th</sup> Dec' 2022
Late Registration	:	30 <sup>th</sup> Dec' 2022	30 <sup>th</sup> Dec' 2022
Conference Dates	:	20 – 22, Jan' 2023	

## ■ Conference Format

The conference has two types of presentations: Invited Keynote Speakers and Regular Oral Presentations. The authors who register for the Regular Presented can present the paper either by attending the conference or through Skype/Zoom video presentation. The proceedings of the conference will be published and distributed in English through Electronic format.

## ■ Paper Submission

Papers must be written in English for ICETM – Jan' 2023 and should describe original work in detail. Each regular paper, according to instruction, must be accompanied by an abstract summarising the contribution it makes to the field. Maximum paper length for regular paper is 6 pages of A4. Each paper will be reviewed by at least three reviewers. Submission of a paper constitutes a commitment that, if accepted, at least one author must attend and participate in the conference. Electronic submission in camera-ready format and copyright document are required.

For more information: <http://www.wairco.org/Malaysia/PaperSubmission.html>

The manuscript can be submitted through: [janeary2023@wairco.org](mailto:janeary2023@wairco.org)

## ■ Publication

All the accepted papers will be published in the:

1. ICETM – Jan' 2023 conference proceedings.
2. Indexed with an indexing site.
3. Submitted to the refereed indexed journal for further review. Those who want to publish in that need to pay additional publication fee as per the refereed journal.
4. Science papers will be published in Indexed Journal with extra publication charges as per the Journal.
5. Free WAIRCO Journal Publications with ISSN.

For more info: <http://www.wairco.org/Malaysia/ICETM%20Jan%202023.html>

## ■ Registration

The ICETM – Jan' 2023 has two rounds for submission of papers. Under each round there are two deadlines for paying the registration fee: Early bird registration and Late Registration.

It is mandatory that at least one author of an accepted paper must register in order to appear the accepted paper in the Journal Proceedings and be included in the Technical Program. If an author has got more than one accepted paper, each paper has to be registered separately. Each paper is restricted to 6 pages. Extra fee will be charged for each page. Also not that, those who want to have a print media (hard copy) of the Journal Proceedings, they have to pay extra fee along with the registration fee.

For more info: <http://www.wairco.org/Malaysia/Registration.html>

### Note:

1. Members will get 15% concession of the Registration Fee.
2. Part Time/Full Time Research Scholars will not come under Student Category.
3. Virtual Presenters / Additional Paper with the same author registration will get concession by 40% of the Registration Fee and no extra kit will be given.

## ■ Conference Location

The ICETM – Jan' 2023 will be held on 20 – 22, Jan' 2023 at "Bayview Hotel Langkawi", Jalan Pandak Mayah 1, Pusat Bandar Kuah, 07000 Langkawi, Kedah, Malaysia.

For more info: <http://www.wairco.org/Malaysia/Venue.html>

## ■ Committee

The ICETM – Jan' 2023 constitutes the following members as Committee:

Dr. Jonathan Goh, Guangxi University, Nanning, China

Dr. Ernest Johnson, University of Regina, Canada

Dr. Shalini Sanmargaraja, Universiti Tunku Abdul Rahman, Malaysia

Prof. Johnson Nimako, North – West University, South Africa

Dr. M Muralidhara Rao, Affiliated to JNTUK, Eluru, India

Er. Lashan Sulalith Silva, CEO, Enhancer pvt. Ltd., Sri Lanka

Dr. Malini Patil, JSSATE, Bangalore, India

For more info: <http://www.wairco.org/Malaysia/Committee.html>

## ■ Contact Information

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<http://www.wairco.org/Malaysia/Callforpapers.pdf>