Coalesce Research Group

SCIENCE

5TH INTERNATIONAL CONFERENCE ON

APPLIED SCIENCE & ENGINEERING

JUNE 26-27, 2025
HOLIDAY INN AMSTERDAM – ARENA TOWERS
AMSTERDAM, NETHERLANDS

Theme: "Technological Developments & Modern Trends in Applied Science and Advanced Engineering"

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Day 1 - June 26, 2025

Keynote Presentations

Presentation	Title: The non-invasiveness of raman spectroscopy
	Branka Hadžić, Institute of Physics, University of Belgrade, Serbia
Presentation	Title: Reactive transport of pollutants throughout the vadose zone of the Beauce Aquifer using the O-ZNS Observatory multi-disciplinary data
	Mohamed Azaroual, University of Orléans, France

Keynote Slots Available

Oral Presentations

Presentation	Title: Leveraging the CAS Framework to Bridge Human-Centered HCI
	Rahmira Rufus, University of North Carolina, USA
Presentation	Title: The New Era, the Human, and the Technology
	Anabela Simoes, High Institute for Education and Science, Lisbon, Portugal
Presentation	Title: Material porosity as a basic factor for the mechanical, physical, thermal and sound insulation properties of materials from recycled car tires
	Anđelko Crnoja, University North, Koprivnica, Croatia
Presentation	Title: Evaluation of NDT method response to different marine concrete types
	Aleksandrs Korjakins, Riga Technical University, Latvia
Presentation	Title: An advanced and innovative Methodology for Energy Flexibility Audits in Industrial Environments
	Juan Antonio Aranda, CIRCE – Research Centre, Zaragoza, Spain

Speaker Slots Available

Presentation	Title: Unveiling the Power of KPIs: Mapping Their Role in Technical, Economic, Environmental, Social, and Business Domains
	Boniface Dominick Mselle, CIRCE – Technology Centre, Spain
Presentation	Title: Nonparametric and Nonlinear Approaches for Medical Data Analysis
	Ketana Kakani, BITS Pilani, Hyderabad Campus, India
Presentation	Title: High-Performance Spur Gear Transmission Systems: Loaded Tooth Contact with Lubrication and Roughness Effect
	Rakesh M. Patel, Gujarat Arts & Science College, India
Presentation	Title: Recasting Chemical Engineering to Welcome AI
	Gideon Samid, Chief Technology Officer for BitMint, USA
Presentation	Title: Encouraging Collaboration Between Medical Laboratory Science and Nursing Students
	Johanna Hudo-Castañer, Ana G. Méndez University - Gurabo, Puerto Rico

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Presentation	Title: Enhancing Industrial Quality Assurance through Advanced Object Detection Using Deep Learning
	Afshin Rahimi, University of Windsor, ON, Canada
Presentation	Title: Features of High-Voltage Consolidation of Powder Materals
	Evgeny Grigoryev, Merzhanov Institute of Structural Macrokinetics, Russia
Presentation	Title: Advanced Sinusitis Diagnosis Using Deep Learning and Heatmaps Combined with Enhanced 3D Image Segmentation
	Shi-Jinn Horng, Asia University, Taiwan
Presentation	Title: Axial Parametric Excitation and Slapping Force in Nonlinear Beams for Vibration Energy Harvesting
	Yi-Ren Wang, Tamkang University, Taiwan
Presentation	Title: An Atrium Exposed: When Intumescent Fireproofing Coatings Fail
	Kevin M Black, Simpson Gumpertz & Heger Inc., USA

Speaker Slots Available

Presentation	Title: Existence and Multiplicity of Weak Solutions for a System of Fourth-Order Elliptic Equations with combined non-local and indefinite source terms
	Khaled Kefi, Northern Border University, KSA
Presentation	Title: Perspectives on carboxylates generation from Ecuadorian agro-wastes
	Maria de Lourdes Mendoza, Superior Polytechnic School of Litoral, Ecuador
Presentation	Title: Polylactic Acid and Jute Fiber Composite; A Sustainable Solution for Reducing Environmental Impact in Industrial Applications
	Martín Guzmán-Baeza, National Polytechnic Institute, Mexico
Presentation	Title: Patterns and Drivers of Bumblebee Diversity in Gansu
	Muhammad Naeem, Qujing Normal University, China
Presentation	Title: Towards Practical Mini-UAV Swarm Topology Control
	Noor Ahmed, Air Force Research Laboratory, NY, USA
Presentation	Title: The Evaluation of the Mechanical and Tribological Parameters the materials for the bearing aircraft-project
	Paul Olaru, AGIR-UNIV POLITEHNICA Bucuresti, Romania

Day 2 - June 27, 2025
Keynote Presentations

Presentation	Title: Comparing Ml Algorithms: A Comprehensive Evaluation of Intrusion, Anomaly, and DoS Attack Detection Systems
	Khalid Hussain, Albukhary International University Malaysia

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	Oral Presentations
Presentation	Title: Analysing the Variation of Ambient Air Pollution Concentration in an Opencast Mines and dispersion analysis using HYSPLIT Forward Trajectory Modeling enhanced by IoT Data
	Pratibha Sharma, Indian Institute of Technology (ISM), India
Presentation	Title: Global climate change by zones and high-altitude zones of the Earth: human society and their future
	R.T. Akmatov, Doctor of Geographical Sciences, Kyrgyz Republic
Presentation	Title: Digitalization of companies in hospitality
	Silvena Dencheva Yordanova, College of Tourism, Bulgaria
Presentation	Title: Transforming Marfan Syndrome Diagnosis with AI and Federated Learning
	Venkatesh Upadrista, Glasgow Caledonian University, Scotland, United Kingdom
Presentation	Title: Quantification of Recent and Future Drought under RCP 8.5 in Marrakesh and Sidi Ifni: global teleconnections
	Said Amouch, Mohammed V University in Rabat, Morocco
Presentation	Title: The Sustainable Role of Local Governments in Combating the Climate Crisis
	Şefik TAŞA, Head of Administrative and Financial Affairs Department Council of Higher Education, Turkey

Speaker Slots Available

Presentation	Title: Deep Convolutional Neural Network (CNN) for threedimensional (3-D) objects classification using phase-only digital holographic information
	Uma Mahesh, R N ATME College of Engineering, Mysore, Karnataka, India
Presentation	Title: Quantum-Classical Mechanics: Principles, Applications, and Prospects
	Vladimir Valentinovich Egorov, NRC Kurchatov Institute, Moscow, Russia
Presentation	Title: A Novel Approach for Target Attraction and Obstacle Avoidance of a Mobile Robot in Unknown Environment
	Brwa Abdulrahman Abubaker, University Bayan University, Erbil, Iraq
Presentation	Title: Mathematical Modelling of Synovial Fluid Dynamics in Osteoarthritic Human Knee Joints
	Sapna Ratan Shah, Jawaharlal Nehru University, India
Presentation	Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator
	Seongwoo Woo, Ethiopian Technical University, Ethiopia
Presentation	Title: Effect of Quarter-Circle Ribs Radius and Location in a Suddenly Expanded Flow at Sonic Mach Number
	Sher Afghan Khan, IIUM, Kuala Lumpur, Malaysia
Presentation	Title: Radiological Impact of Dumpsites on Public Health: Measurement and Cancer Risk Estimation
	Buhari Samaila, Federal University Birnin Kebbi, Nigeria

Poster Presentations

Presentation	Title: Harmful Dust in Underground Coal Mine and Its Assessment
	Miroslava Vandlíčková, University of Žilina, Slovakia
Presentation	Title: HHO Mixture as Natural Gas Dilution For Small To Medium-Sized Industrial Applications
	Firas A. Abdulkareem, BNR Energy, The Netherlands
Presentation	Title: Ultrasonic Evaluation of Spall Damage Nucleated by Low-Velocity Repeated Plate Impact Test
	Naoya Nishimura, Meijo University, Japan
Presentation	Title: Comparison of Active and Passive Sampling Methods for Atmospheric Bioareosol Collection: Biomass, Biodiversity, and Culturability
	Edier A. Román-Soto, Interamerican University of Puerto Rico, Puerto Rico
Presentation	Title: Model of sustainable development of Kyrgyzstan in the context of digital transformation of the economy
	Baktygul Sulaimanova, Kyrgyz State technical University I. Razzakov, Kyrgyz Republic

Poster Slots Available

Presentation	Title: Enhancing Campus Navigation: A Digital Approach to Simplifying Movement Across University Grounds
	Salma Morkani, Al Akhawayn University in Ifrane, Morocco
Presentation	Title: Some identities involving prime ideals with pair of generalized derivations
	Radwan Mohammed Al-Omary, Ibb University, Ibb, Yemen
Presentation	Title: Ab-initio calculation of the physical properties of some new scandium-based materials. ScX (X = N, As, Sb)
	Ali Benamer, École Normale Supérieure de Bousaada, Algeria
Presentation	Title: Fuzzy-PID controller based sliding-mode for suppressing low frequency oscillations of the synchronous generator
	Kengne Signe Romain, University of Yaounde 1, Cameroon
Presentation	Title: The effect of maternal age on still birth in Africa: A systematic review and meta-analysis
	Mengistu Abate, Wollo University, Ethiopia

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Abstract acceptance will be intimated through Email & WhatsApp.

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CONFERENCE REGISTRATION

Category	Price
Presenter	$ 699
Listener	$ 749
Exhibitor	$ 1600

DATES TO REMEMBER

Abstract submission Deadline	26th February 2025
Early Bird Registration	28th February 2025
On spot registration:	26th June 2025

REGISTRATION INCLUDES

- Access to all Presentations
- Conference Proceedings Book
- Certificate Accredited by our Organizing Committee Member

GROUP REGISTRATION
Discount available for more than 3 members

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Contact **Us**

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Venue: Holiday Inn Amsterdam – Arena Towers Amsterdam, Netherlands