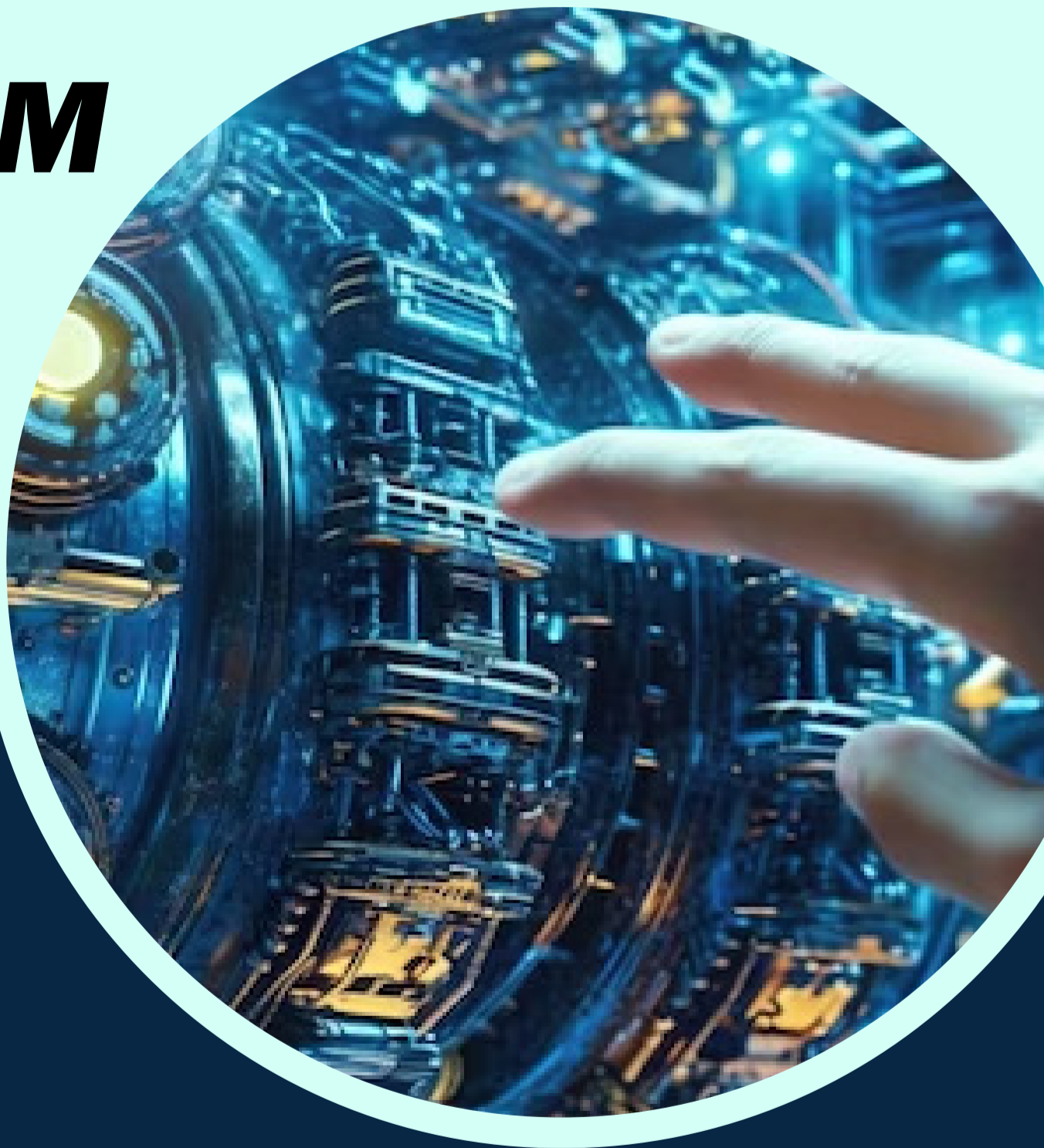


International Summit on Applied Science, Engineering and Technology

FINAL PROGRAM



March 18, 2024



Florence, Italy



ISASET2024

Day 01 | March 18, 2024

09:00-09:30

On Spot Registrations

Chair

Jose Firmino Aguilar Madeira, Instituto Politecnico de Lisboa, Portugal

Co-Chair

Friedrich Grimm, University of Stuttgart, Germany

09:30-10:10

P

Title: Knowledge-Based and Machine Learning Manufacturing System for the Injection Molding to Achieve Intelligent Mold Trial and Self-Adjustment during Production

Shia Chung Chen, Chuang Yuan Christian University, Taiwan

10:10-10:50

P

Title: An Analytical Homogenization Framework for Dynamic Behaviour of Heterogeneous Materials

Jianxiang Wang, Peking University, China

10:50-11:05

Refreshment Break

11:05-11:45

P

Title: VAWTs Beyond 40 MW

Friedrich Grimm, University of Stuttgart, Germany

11:45-12:25

P

Title: Retrieving Injection Molding Knowledge Graph Based on Transformer

Wen Ren Jong, Chuang Yuan Christian University, Taiwan

12:25-13:05

P

Title: Edge and On-Device Artificial Intelligence Engineering and Technology

Sergio Duarte Correia, Head-Electronics and Instrumentation Laboratory Portalegre Polytechnic University, Portugal

13:05-14:05

Group Photo

Lunch Break

14:05-14:35

K

Title: *Realization of Giant Flexoelectric Effect at Macroscale and the Applications as Sensors and Energy Harvesters*

Li-Hua Shao, Beihang University, China

14:35-15:05

K

Title: *Directional Direct Search Strategies Within Global and Local Optimisation*

Jose Firmino Aguilar Madeira, Instituto Politecnico de Lisboa, Portugal

15:05-15:35

K

Title: *Computational Simulations of Fast Marine Vehicle with Aerodynamic Support*

Konstantin Matveev, Washington State University, USA

15:35-15:50

Refreshment Break

15:50-16:20

K

Title: *PVDF Ultrafiltration Polymeric Membranes Production from Lab to a Pilot Scale: Uses and Results*

Liana Padilha, Federal University of Rio Grande do Norte, Brazil

16:20-16:50

K

Title: *Simulation for Applied Science and Engineering*

Prakash Manandhar, MIT System Design and Management, USA

Sessions

Applied Physics, Robotics and Automation, Energy Science and Technology, Polymer Engineering, Industrial Engineering & Applied Mathematics

Sessions Chair

Shia Chung Chen, Chuang Yuan Christian University, Taiwan

16:50-17:10

I

Title: *Morphological and Chemical Characterization of Natural Asbestos Fibers in Artificial Stone from Historically Significant Contexts and Road Pavements*

Elena Marrocchino, University of Ferrara, Italy

17:10-17:30

I

Title: *Roses, Robotic System for Endovascular Surgery*

Guido Danieli, *University of Calabria, Italy*

17:30-17:50

I

Title: *Spin Polarisation in Chiral Molecules/Magnetic Thin Film Hybrid Nanostructure*

Lech Tomasz Baczewski, *Institute of Physics Polish Academy, Poland*

17:50-18:10

I

Title: *Digital Twins for Image Analysis of Granular Media*

Johan Debayle, *Ecole des Mines de Saint-Étienne, France*

POSTER

P01

Title: *Security Holographic Labels with Hyperfine Structures Imprinted via Biodegradable Polymeric Plates*

Mona Mihailescu, *Politehnica University Bucharest, Romania*

****Closing the Conference for Day 1****

NEXT EVENT

**2nd International Summit on
Applied Science, Engineering and Technology**

**March 17-19, 2025
Valencia, Spain**

