

AETA 2023

The 8th International Conference on Advanced Engineering – Theory and Applications 2023

14 - 16 December 2023
Pukyong National University, Korea
Web page: aeta2023.tdu.edu.vn

The 8th International Conference on **Advanced Engineering – Theory and Applications** will be held during 14 - 16 December 2023 in Busan, Korea. The conference is co-organized by Pukyong National University, Ton Duc Thang University, and VSB-Technical University of Ostrava, for the purpose of offering a special opportunity for the scientists, researchers, engineers from universities, institutions, manufactures meet together to exchange experiences, disseminate scientific achievements and advanced technologies of Electrical, Electronic-Telecommunication, Computer Science and Mechanical-Mechatronics engineering.

All full papers will be printed in Lecture Notes in Electrical Engineering series (Springer), now indexed by ISI Proceedings, EI-Compendex, SCOPUS, MetaPress, Springerlink.

Authors are invited to submit full papers or abstracts describing original research work in areas including, but not limited to,

Control and systems: Adaptive control, Robust control, Nonlinear systems and control, Process control, Intelligent control.

Electrical machines & drives: Motion control, Electrical machines, Speed drives.

Energy saving: Energy management and control systems, Networks, System lighting, Automation in energy systems, Energy management systems.

Renewable energies: Solar energy, Wind energy, Hydrogen and fuel cell

Power electronics: Power quality control, FACTS, PFC, Switching circuits and power converters, Smart grid, Energy storage and compensation, Modeling and control, Switching converters.

Communications: Mobile Communications, Wireless networks, Ad hoc & sensor networks, Information theory, Optical networking, Satellite communications, Cognitive networks, Antennas and propagation, Network protocols and architectures, IoT networks.

Signal processing: Image processing, Computer vision, Data processing, Fractal geometry in image processing.

Computational intelligence in electronic and design: Artificial neural network, Fuzzy system, Evolutionary computing, Genetic programming, Grammatical evolution.

Cyber Security: Classical methods and artificial intelligence in security, Deterministic chaos and electronic devices in encryption and security, Threat identification by artificial intelligence and its hybridization with classical methods, Blockchain based applications, AI for Cybersecurity, Quantum Computing for Cyber, Smart Grid security, Cyber resilience, and Cyber economy.

Nontrivial Dynamics of Electronic devices: Nontrivial and chaotic behavior in electronic and energy devices, Blackout in wide energy systems - modeling, Identification and impact on real energy devices and systems.

Mechatronics: Robotic, Industrial automation, Micro electromechanical systems, Sensor and actuators.

Computational Mechanics: Numerical methods (FEM, BEM, IGA, ...), Structural optimization; Structural dynamics; Structural Reliability; Fracture and damage mechanics; Material Mechanics; Modeling and Simulation; Structural health monitoring.

Materials Science & Chemical Engineering: Advanced research of all areas

Marine, Civil/Architecture Engineering and Construction Management

Important Dates

- * Submission of Papers/Abstracts by Authors: **31 October 2023**
- * Notification of Acceptance: **15 November 2023**
- * Submission of Paper Source Files & Copyright Form: **30 November 2023**
- * Author Registration (Compulsory for Paper Acceptance): **30 November 2023**
- * Conference: **14-16 December 2023**

Contact

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