



# AETA 2022

## The 7<sup>th</sup> International Conference on Advanced Engineering – Theory and Applications 2022

08 - 10 December 2022

Ton Duc Thang University, Ho Chi Minh City, Vietnam

Web page: [aeta2022.tdtu.edu.vn](http://aeta2022.tdtu.edu.vn)

The 7<sup>th</sup> International Conference on **Advanced Engineering – Theory and Applications** will be held during 08 - 10 December 2022 in Vietnam. The conference is organized by Ton Duc Thang University, co-organized by VŠB-Technical University of Ostrava, La Trobe University, Pukyong National University, University of Pardubice, and University of L'Aquila, 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 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 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.

### Important Dates

- \* Submission of Papers by Authors: **30 September 2022**
- \* Notification of Acceptance: **31 October 2022**
- \* Submission of Paper Source Files & Copyright Form: **15 November 2022**
- \* Author Registration (Compulsory for Paper Acceptance): **15 November 2022**
- \* Conference: **08-10 December 2022**

### Keynote Speakers

TBA

### Contact

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