



# CALL FOR PAPERS

**ICIESE 2020**  
**Apr 16-17, 2020**  
**Lisbon, Portugal**

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICIESE 2020 : International Conference on Industrial Electronics and Systems Engineering is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Industrial Electronics and Systems Engineering. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Industrial Electronics, Technology & Automation

Advanced and Distributed Control Systems, Intelligent Control Systems, Expert Systems, Man Machine Interaction, Data Fusion, Factory Automation, Robotics, Motion Control, Machine Vision, MEMS Sensors and Actuators, Sensors Fusion, Power Electronics, High Frequency Converters, Motors and Drives, Power Converters, Power Devices and Components, Electric Vehicles and Intelligent Transportation, Process Automation, Factory Communication, Manufacturing Information System, Advances in Manufacturing Systems, Industrial Applications of Multi Media, Intelligent Systems, Instrumentation, Industrial Instrumentation, Modeling and Simulation, Signal Processing, Image and Data Processing, VR and Parallel systems.

Power Electronics and Power Converters

Power converters, power electronic devices and systems, integrated power electronics, modeling, simulation and control of power electronics, DC-DC conversion, AC/AC matrix converters, rectifiers, inverters, PWM systems, UPS, active and hybrid filtering, power line conditioners, new power devices.

Electrical Machines and Drives  
AC motor drives, observers and sensorless methods, drive control and applications, electrical machine design and modeling, thermal, noise and vibration issues in electrical machines, testing and diagnostics, estimation and identification techniques, motion control.

Control Systems, Artificial Intelligence, Instrumentation, Signal and Image Processing  
Advanced control techniques, computer and microprocessor-based control, nonlinear and adaptive control, optimal and robust control, remote sensing, remote engineering, computer vision, virtual instrumentation, image and sound processing, digital signal processing, multimedia applications, industrial applications of intelligent controllers, neural networks, fuzzy logic, genetic algorithms, distance learning.

Mechatronics, Robotics and Telecommunications

Mechatronics, robotics, industrial vision, autonomous mobile robots, telerobotics and teleoperation, humanoid robots, multi-robot systems, intelligent transportation, distributed collaborative systems, security and safety applications, wireless and telecommunication systems.

Power Systems and Renewable Energy  
Energy transmission / distribution, power management, power systems control / diagnostics, energy efficiency, EMC issues, power quality, wind, solar, wave energy systems, hydro and microhydro power generation, distributed power generation, integrated renewable systems, hybrid electric vehicles, fuel cells, advanced batteries, grid connection.

System Integration and Industrial Informatics

VLSI, digital controllers, embedded systems, system on chip design, ASICs, FPGAs, microelectronics, hardware description languages, building automation, factory communications, factory automation, flexible manufacturing system, process automation, industrial agents, integrated systems and processes, portable electronics, Networks and Automation, Security and Safety, Robotics and autonomous Systems, Service-Oriented Architecture, Infrastructure and Technology, Cognitive Science in Industrial Informatics, E-Applications, Applications of Industrial Informatics, Embedded and Networked Control in Collaborative Manufacturing

