



# CALL FOR PAPERS

**ICEEES 2022**  
**Jun 21-22, 2022**  
**Vienna, Austria**

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.

ICEEES 2022 : International Conference on Energy Efficient Electronic Systems is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Energy Efficient Electronic Systems. 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:

#### Ultra Low Voltage Nanoelectronics

(demonstrations of novel, low voltage solid-state switching devices, experimental data providing insights into the underlying physics and materials science that will enable novel switching device structures to become viable low-voltage alternatives to conventional CMOS)

Milli-Volt Nanomechanical Logic (novel actuation approaches, minimizing stiction and hysteresis, device and material innovations to achieve milli-volt operation)

Ultra-Low Energy Spintronics (novel approaches and architectures to spin based computation; advances in current and voltage control of nanomagnets, approaches for high on/off ratio in spin based switching, approaches to accelerate magnetic switching speed, spin based communications, novel memories technologies for ultra-low read and write energies, novel storage mechanisms)

Optical Chip Scale Interconnects (advances in optical links towards communication approaching quantum-limited sensitivity and atto-joule/bit energy efficiency; novel sources and detectors, monolithic optoelectronic integration techniques)

Low Voltage CMOS Circuits and Architectures (energy-efficient microarchitecture and circuit design, 3D integration, device variability mitigation, asynchronous circuits; performance analysis of novel approaches)  
Energy Efficient Computing Systems (state of energy efficiency in computing systems, energy-efficient, supercomputing and data-center technology, energy-aware embedded system designs, energy efficient application and system design, novel packaging and cooling techniques)

