



# CALL FOR PAPERS

ICMN 2019 Oct 09-10, 2019, Osaka, Japan

The ICMN 2019 : 21th International Conference on Resource Conservation and Restoration Ecology is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Resource Conservation and Restoration Ecology. 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:

**Background:** International Research Conference Series is an event that brings together significant number of recurring events; academic conferences, symposia, workshops, special sessions, and plenary talks in all research fields since inception in 1999. Each event may run over any span of time within the conference days. Presentations scheduled in the Oral and ePoster sessions are drawn from a selection of the peer reviewed papers from a wide range of scientific and other disciplines of inquiry.

Microelectronic Device Processing and Process Integration  
Trends in submicron technologies; product development (DRAM, SRAM, Flash, CMOS Imagers); new device technologies (Phase Change Memory, Resistive Memory, Ferroelectric Memory, Nano-electronics), novel transistors, device improvements  
Microelectronic Device Electrical and Reliability Testing  
Dielectric reliability; device reliability; phase change memory reliability; novel memory technology testing schemes; electrical properties of novel devices  
Semiconductor Packaging and Reliability  
Semiconductor package reliability, Design for Manufacturability, and stacked die packaging, and novel assembly processes. Novel packaging structures, processes, and materials  
Microelectromechanical Systems (MEMS) and Nanoelectronic Devices  
Novel processes and materials, MEMS research, development and performance; nanotubes, nanowires, quantum dots, molecular devices, device characterization for nanoelectronic devices  
Microelectronic Circuit Design  
New product design, design techniques, and memory sensing schemes

Laser Technology and Applications  
Optoelectronics and Photonics  
Laser Physics and Nonlinear Optics  
Gas Lasers and Applications  
Solid State Lasers: Technology and Devices  
semiconductor lasers, including tunable lasers and multi-wavelength lasers  
Laser Materials, Fabrication and Characterization  
Laser material processing  
Tera-hertz sources & detection  
Tera-Hertz propagation

Optical Communication and Sensors  
Special Fibers and cables  
New technologies impacting components and sub-systems  
High-speed communication systems  
Optical access networks  
Fiber-optic sensor and networks  
Fundamental performance characteristics and incremental advances  
Network installation and Engineering performance characteristics  
Application and Field trials  
Standardization and interoperability  
Fiber lasers, optical signal processing and free-space communications

Optical Storage and Technologies  
Basic Theory and New Concept

Optical Media  
Optical Drive Technologies  
Coding and Signal Processing  
Testing Methods and Systems  
High Density Magnetic Recording  
Solid State Memory Storage Systems and Applications

Optoelectronic Devices and Integration  
White LED and related technologies  
High performance semiconductor optical amplifiers  
Advanced optoelectronics device fabrication technologies  
Nonlinear optical devices and all-optical signal processing  
Electro-optic modulators and related advanced modulation format technologies  
Advanced radio-over-fiber devices and related technologies  
Intelligent optoelectronic devices and optical switching  
Grating-based devices and related technologies  
Nano technologies and their application in optoelectronics devices  
Slow and fast light devices and related technologies  
Free-space communications related devices and technologies  
New optoelectronic device materials and processing

Medical and Biological Applications  
Biomedical optics  
Laser medical diagnostics and therapeutics  
Diffuse optical imaging, steady-state, time-resolved and photon-density-wave techniques  
Optical coherence tomography  
Advanced biological microscopy  
Photochemistry and photobiology  
Laser tissue interactions and laser surgery  
Photodynamic therapy  
Minimally invasive optical diagnostics  
Photo-acoustic techniques  
Optics in biotechnology  
Optical-system engineering for medicine

