



Call for Papers



IEEE Hyderabad Section *jointly with* IEEE India Council *organizes* 2011 Annual IEEE India Conference INDICON 2011

at

BITS, Pilani – Hyderabad Campus, Andhra Pradesh, India
December 16-18, 2011

Engineering Sustainable Solutions

<http://www.indicon2011.org/>

Conference Background and Theme: IEEE's revised core purpose is to foster technological innovation and excellence for the benefit of humanity. Engineering is about solving problems of the society for its benefit. Earlier, engineering assumed abundant resources while the population was low and needs were fewer. Modern perceptions have changed now. Man exploited the nature and often took the resources as free. Resources have become scarcer and the solutions provided need to be scalable in view of constantly growing global population approaching 7 billion people. Solutions that engineers propose now need to be holistic in that they address three important dimensions:

- **Sound Engineering Design:** Agile, Coping with Change, Good Analysis,
- **Eco friendly Processes:** Conserving water, energy, metals, minerals, etc.,
- **Affordable Solutions:** Ease of use and affordable to most people.

Keeping in view of these considerations, the theme of the conference is “Engineering Sustainable Solutions”.

Consistent to the above background and theme, in INDICON 2011 we invite original *contributions* from researchers, educators, managers and students to submit articles, which may be conceptual, theoretical, or empirical in nature. They may document research activity, case studies or best practices, shedding light on the theory or practice of engineering, technology, or innovation. The original contributions from the authors are invited in the following.

Major technology topic areas, include (not limited to):

Computing: Algorithms, Architecture, Cryptography, Security, Data Mining, Embedded Systems, Speech, Image, Video, Multimedia, Pervasive Computing, Grid and Cloud Computing, Pattern Recognition, Artificial Neural Networks and Machine Learning, Evolutionary computation, Fuzzy logic, Bioinformatics and Computational Biology etc.,

Software Engineering: Requirements Management, Analysis, Architecture, Design, Assurance, Product Quality, Process Maturity, Agile, SOA, Estimation, Performance, Standards, Security, Development Life Cycles, Model Driven Development, Enterprise Architecture, etc.,

Communication: Data Communication, Telecommunication, Networks, Wireless, Mobile, Optical, Signal Processing & Coding Techniques, Internet, IPv6, Convergence of Technologies, Protocols and Standards, Personal Communications, Social Networks, Adhoc Networks etc.,

Power & Energy: Power Electronics, Instrumentation, Electrical Machines, Control and Testing Techniques, Intelligent Transport Systems, Fuel Cells/Wind Energy/Solar Energy, Energy-efficient Tools and techniques, Energy storage technologies, Smart Energy Appliances, Smart Grid etc.,

Microwave & Antennas: Microwave/optical interactions, Microwave Photonics, Biomedical Applications, Smart Antennas, Phased Arrays, T/R modules, multi-beam scanning, active integrated antennas. HF/UHF/RF passive and active RFID tags, Cognitive and Software-defined Radios etc.

Theme coverage areas: Technology is a great enabler. It has wide coverage in terms of addressing the solutions to the problems that the world is facing due to global warming, poverty, pollution, illiteracy, food scarcity, migration of people urban congestion, etc., The scope of the papers may include solutions to issues such as (but not limited to): Illiteracy, Disasters, Health, Energy, Climate, Water, Weather, Ecosystems, Agriculture, Biodiversity, etc.,

Technology Management: *In addition to the Major technology & Engineering topics covered above, we are open to sessions on management issues as seen within computer, communications and power & energy disciplines. The areas include but not limited to:*

- Engineering Management and Climate Change
- Safety and Health Management
- Project Management for Sustainable Solutions
- Green Information Technology
- Green Product and Process Development
- Ecological Modernization
- Systems Approach to Sustainable Solutions

INDICON 2011 Conference proceedings will be accessible through IEEE Xplore after the conference.

Paper Format for submission: refer A4 (Doc) format at http://www.ieee.org/conferences_events/conferences/publishing/templates.html

Important Dates:

Full-Paper Submission:	01 July - 15 Aug 2011
Notification of Acceptance of Paper:	15 Oct 2011
Camera-ready Paper:	1 Nov 2011
Registration:	1 Nov - 30 Nov 2011
Tutorial: 16 Dec 2011	Conference: 17 – 18 Dec 2011

For additional information, visit the conference website at <http://www.indicon2011.org/>

Contact: indicon2011@ieeehyd.org

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