

CONFERENCE SCHEDULE

| Time(Hrs) | 5th January 2011 | | | 6th January 2011 | | | 7th January 2011 | | |
|---------------|------------------------------|----------------------------------|-----------|------------------------------|-----------------------------|---------------------------|--------------------------------------------|------------------------------|------------|
| | Hall -1 | Hall - 2 | Hall - 3 | Hall -1 | Hall - 2 | Hall - 3 | Hall -1 | Hall - 2 | Hall - 3 |
| 9.00 - 10.00 | Registration & Breakfast | | | Breakfast (9.00 - 9.30) | | | Breakfast (9.00 - 9.30) | | |
| 10.00 - 11.00 | Inauguration | | | Session 10 | Keynote session on Controls | Session 12 | Session 22 | Session 23 | Session 24 |
| 11.00 - 11.15 | Tea Break | | | Tea Break | | | Tea Break | | |
| 11.15 - 1.00 | Keynote session on Materials | Session 2 | Session 3 | Session 13 | Session 14 | Session 15 | Session 25 | Keynote session on Computing | Session 27 |
| 1.00 - 2.00 | Lunch | | | Lunch | | | Lunch | | |
| 2.00 - 3.15 | Session 4 | Keynote session on Communication | Session 6 | Keynote session on Computing | Session 17 | Session 18 | Panel Discussions and Valedictory Function | | |
| 3.15 - 3.30 | Tea Break | | | Tea Break | | | | | |
| 3.30 - 5.00 | Session 7 | Session 8 | Session 9 | Session 19 | Session 20 | Keynote session on Energy | | | |
| 6.00 - 7.30 | Cultural Program | | | Site Tour | | | | | |
| 7.30 - 9.00 | Dinner | | | | | | | | |

IN ASSOCIATION WITH

Vel Tech (Engineering College)

Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College

Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College

Vel Tech Polytechnic College



FOR REGISTRATION AND FURTHER INFORMATION CONTACT

Dr.E.Kannan, Convenor
#42, Avadi-Vel Tech Road, Avadi, Chennai - 600 062, Tamil Nadu, INDIA.
Phone: 9445049400, 044-26840262 E-mail: papers@icst2011.com, veltech@vsnl.com
www.icst2011.com

International Conference on **SMART TECHNOLOGIES FOR MATERIALS, COMMUNICATION, CONTROLS, COMPUTING & ENERGY** **ICST - 2011** 5 - 7 JANUARY 2011 **CALL FOR PAPERS**



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VENUE

VEL TECH Dr.RR & Dr.SR TECHNICAL UNIVERSITY
(VEL TECH RANGARAJAN Dr.SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY)
#42, Avadi-Vel Tech Road, Avadi, Chennai - 600 062, Tamil Nadu, INDIA.

VEL TECH DR.RR & DR.SR TECHNICAL UNIVERSITY

VEL TECH Group of Educational Institutions was established in 1990 by a well known industrialist couple dedicated to public service, Dr.Rangarajan and Dr.sakunthala Rangarajan, who by then had 30 years of experience in developing Industries and International Trade. What took off as a modest school now stands as a monument of glory for "Chennai city". A student volume of above 12,000 throng the various educational institutions of VEL TECH group. Through sheer hard work and principled living, the couple has been able to make these institutions highly successful by offering 59 courses including post graduate courses.. Dr.R.Rangarajan is currently a Syndicate Member of the University of Madras and Anna University. The long, dedicated, tireless and passionate journey continues to the cause of nation building. VEL TECH Dr.RR&Dr.SR Technical University, Chennai, shortly VEL TECH, has established more than 25 courses in engineering under six Faculties in Electrical & Electronics, Mechanical, Civil, Technology, Information & Computing and Management supported by more than 50 well equipped laboratories, computer facilities with 24x7 internet connectivity, aided by a dynamic web support system accessible to every student and parent. At VEL TECH, more than 800 highly qualified and experienced teachers take direct charge of students guiding them throughout their programmes, arrange for industrial visits and projects and help select appropriate elective subjects. The hostel provides healthy accommodation and food. Vast library resources meet every student's requirement of books for the full courses.



OKLAHOMA STATE UNIVERSITY

TThe university founded on December 25 1980 is located in stillwater, a north-central Oklahoma community and approximately 60 miles from Tulsa and Oklahoma city. The University is Co-educational and has an enrollment of over 33,000 students on its four campuses. It offers bachelor's, master's and doctoral degrees in a large number of fields as well as the professional doctor of osteopathic medicine and doctor of veterinary medicine degrees. Specialist in education degrees are also offered in selected fields. The size of the university has many distinct advantages. OSU's 2 million volume library backed by its origital counterparts, its modern research research laboratories and equipment, excellent physical education, recreation and student union facilities, nationally-recognized residence halls programs, outstanding cultural events and 36 nationally-affiliated fraternities and soroties, all provide a stimulating educational and social environment.

OBJECTIVE

The (ICST) is meant for providing excellent technological opportunities to explore the role of smart technologies in the areas of materials, communication, controls, computing & energy for the participants from all over world. The purpose of this conference is to present and discuss existing the technological knowledge, share information in the relevant areas that could lead to future developments.

GOALS OF ICST

Have a Successfull event as measured by a suitable evaluation so that participants leave with enhanced technical knowledge and a desire to constitute and participants in future conferences..
Plans a broad range of high quality presentations to serve as an affordable training venue.
Give participants the opportunity to experience prominent cultural and national features through special events, programmes and offsite sessions.
Work with partner organizations in other countries to further advance the profession.

SCOPE

| MATERIALS | COMMUNICATION |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>❖ Smart Materials such as eco-friendly Nano Composites, peizo-electronic materials, shape memory alloys. NVH materials etc...</div> <div>❖ Composite materials and structures</div> <div>❖ Structural dynamics and impact behavior</div> <div>❖ Durability and sustainability of materials and structures</div> <div>❖ Damage and fracture mechanics</div> <div>❖ Molecular nanomaterials</div> <div><div>a) Magnetic Materials</div><div>b) Nano-objects</div><div>c) Optical and photonic Materials</div></div> <div>❖ MEMS, NANO Materials and Technologies</div> <div>❖ Intelligent Materials Manufacturing</div> <div>❖ New sciences & Novel Materials at sub-micron and nano scale</div> <div>❖ Structural and Functional Materials for Fission Reactors</div> | <div>❖ Next-generation Communication Networks</div> <div>❖ Multi-model Communications Networks</div> <div>❖ Routing and Flow Control in LANs, WANs and PANs</div> <div>❖ Fault Detection and Management</div> <div>❖ Wireless Communication</div> <div>❖ Broadband and Cellular Networks (3G/4G, WiMAX/LTE, UWB)</div> <div>❖ Cyber security technologies</div> <div>❖ Video Distribution (IPTV, Mobile video, Video on Demand)</div> <div>❖ Multimedia and multicast communications</div> <div>❖ Communications Systems Integration & Modeling</div> <div>❖ VLSI Based System Design</div> |

| CONTROLS | COMPUTING | ENERGY |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>❖ Nano-electronics</div> <div>❖ Embedded Systems</div> <div>❖ Intelligent Electrical Systems</div> <div>❖ Neural networks and Fuzzy Systems</div> <div>❖ Real Time Control Systems</div> <div>❖ Opto-electronics</div> <div>❖ Robotics, Sensors and Applications</div> <div>❖ Control of Biological Systems</div> <div>❖ Biomedical instrumentaaion and applications</div> <div>❖ Mechatronics</div> | <div>❖ Mobile computing</div> <div>❖ Bioinformatics</div> <div>❖ Simulation and computational modelling</div> <div>❖ Soft Computing</div> <div>❖ Mobile ad-hoc and Sensor Networks</div> <div>❖ Grid, cloud and quantum computing</div> <div>❖ Intelligent e-Technology such as e-Science, e-Business, e-Learning, e-Finance, e-Government and related technologies.</div> <div>❖ Intelligent agents & Data Mining</div> <div>❖ Sensor Technologies</div> <div>❖ Context -aware intelligent computing</div> | <div>❖ Energy Audit, Conservation & Green Energy technologies.</div> <div>❖ Micro and Nano technologies in Energy Systems</div> <div>❖ Environment friendly Design and Systems</div> <div>❖ Energy-Efficient Networking</div> <div>❖ Renewable and alternate energy technologies</div> <div>❖ Environment Aspects</div> <div>❖ Tidal, Wind, Geothermal & Ocean Energy and other emerging technologies</div> <div>❖ Solar and Photovoltaic Applications</div> <div>❖ Small Grid Concepts & Evolution</div> |

CALL FOR PAPERS

The organizers invite authors to submit abstract of technical papers for consideration for inclusion in the oral presentation technical sessions in the Conference. The extended abstract should be limited to three pages, emphasizing significant analytical/experimental studies and should be an original contribution relevant to the theme and the aim of the conference. A few well-organized review papers will also be considered.
Abstract will be evaluated by paper review committee. Draft manuscripts will then be invited for the selected abstracts for further evaluation.
All the speakers making oral presentation are expected to register as delegates for the conference and pay the conference fees. Submission of Abstract confirms acceptance of these conditions.

Paper Review Committee will review draft manuscripts and those papers approved by the committee for oral presentation in the conference will be published in the conference proceedings and also in a few refereed international journals. Guidelines to authors for preparing final manuscripts are available on the websites www.icst2011.com

Prospective authors should submit a soft copy of this abstract , manuscript and a one page profile of the principal author with photograph in Microsoft Word format at website www.icst2011.com

CULTURAL PROGRAM

On the first day of the conference, a cultural program is organised with dinner for participants and their accompanying spouses. Accompanying spouses can also enjoy local sight-seeing and shopping organised for the first two days of the conference in special luxury buses with guide for sight-seeing, etc.

DEAD LINES

| | | |
|--------------------------------------------------------------|---|-------------------------------------------------|
| Submission of extended abstract not more than 3 pages | - | 25th November 2010 |
| Notification of Acceptance | - | 29th November 2010 |
| Submission of full paper with Registration | - | 10th December 2010 |
| Conference Dates | - | 05,06 & 07th January 2011 |

ACCOMMODATION

Accommodation will be provided in the hostels inside the campus and in nearby hotels in Chennai on request. On prior intimation, reservation will be made in hotels in Chennai city. Hotel tariff ranges from ₹1000 - 3000. Transport will be available from the hotels to the venue of the conference.

CONFERENCE FEES

| Category | For Indian Nationals in ₹ | Participants out side India in US\$ |
|-----------------------------------------------|---------------------------|-------------------------------------|
| Industry / R&D | 3000 | 100 |
| Academic Institutions | 2500 | |
| UG/PG Students & Research Scholars | 2000 | |