VENUE AND LOCATION

Thangal Kunj Malu College of Engineering is one of the premier institutions of national importance in higher technical education and research (http://www.tkmcmce.ac.in). It was established in 1958 as the first grant-in-aid engineering college in the state of Kerala by the late Janab A Thangal Kunju Musallar, an industrialist, philanthropist and a great visionary who played a pivotal role in providing the much needed momentum to the state’s economy. Started with three branches and 120 students, the college now admits more than 740 students in the 8 under graduate programs. The college also offers post graduate programs in engineering, management and computer applications. The institute has organized several symposia, seminars, conferences and workshops of national and international importance. The campus is located 5 kms away from Kollam beside NH 744 and 70 km from international airport.

The Kollam town edges with the famous Ashtamudi lake. Many foreign travelers have visited Kollam in early medieval period. It was one of the early centres of Christian activity in Kerala. It is also the headquarters of Kerala State Cashew Development Corporation. The 144 ft. Thangassery Light House, built in 1902, is a centre of attraction. The Ananda Valleswaram Temple here, attracts people on almost all days. There are several churches and mosques in and around Kollam. The Government Guest House here is 200 years old. It stands along the Ashtamudi lake and is a major attraction for its elegance rates. The Adventure Park, located in the shores of the Ashtamudi backwaters, is a novel experiment in the country.
ABOUT THE CONFERENCE
The International Conference on “Signal Processing, Informatics, Communication and Energy Systems (SPICES)” is to be held at Kollam, Kerala, India. It is expected to be a platform for technical exchange amongst researchers from academia, research laboratories, and industries in various emerging fields of Signal Processing, Communication, Computer Science, Power Systems, Power Electronics, Electric Drives, Instrumentation and Control Systems spanning across five tracks. The technical program includes keynote speeches, plenary talks, regular technical sessions, and special sessions.

CALL FOR PAPERS
The conference is being organized in five tracks. Topics of interest include, but not limited to, the following:

TRACK 1: COMMUNICATION & NETWORKING
Chair: K. C. Ravindranathan, CET
Co-Chairs:
- K. A. Navas, GEC, Kannur
- Sindhu D. Pillai, TKMCE, Kollam
Antennas and Propagation
Cross-layer designs
Cognitive radio systems and networking
Distributed resource allocation and scheduling
Estimation Theory
Mobile ad-hoc networks
Modulation, Coding and Diversity
Multicarrier communication systems
Next generation networking and wireless systems
Routing protocols and QoS scheduling
Cooperative communications
Secure communications and Cryptography
Space time coding, MIMO and Adaptive antennas
Underwater wireless communications
Information theory on energy efficiency
Smart Grid Protocols
Protocol extensions for energy efficient networks
Network load balance and smart information storage
Energy-efficient networking
Cross-layer optimizations to minimize energy consumption on a network scale
Industrial electronics.

TRACK 2: SIGNAL PROCESSING
Chair: R. Venkatesh Babu, IISc, Bangalore
Co-Chairs:
- Neelam Sinha, IIIT, Bangalore
- Sabeeha Beevi K, TKMCE, Kollam
Audio, Speech, Image & Video signal processing
Signal processing for communications
Sparse signal processing
Human-computer interfaces
Remote sensing
Array processing
Multidimensional signal processing
Wavelets and filter banks
VLSI signal processing systems
Non-linear and Biomedical signal processing
Learning theory and Pattern recognition
Image processing
Sensors and sensing techniques

TRACK 3: POWER SYSTEMS & POWER ELECTRONICS
Chair: Narayanan G, IISc, Bangalore
Co-Chairs:
- R. Sreejaya, CET
- Sheeba B, TKMCE, Kollam
Distributed Generation
microgrid and smart grid
Hybrid Renewable sources
Power system modelling and simulation
Power system planning and operation
Power quality and FACTS technologies
Energy conversion techniques
Power electronics and Industrial Drives
Modelling, Simulation and Control of Power converters
Power converters for Renewable energy systems
Power semiconductor switches and soft switching
Hybrid Electric Vehicles

TRACK 4: INSTRUMENTATION & CONTROL
Chair: V. S. Borkar, IIT, Mumbai
Co-Chairs:
- Bhide G. R., CET
- Asha Ravindranath, TKMCE, Kollam
Adaptive/Robust systems and control
Aerospace / Flight control and Surveillance systems
Biomedical instrumentation and control
Emerging control theory and applications
Hybrid systems Intelligent control and instrumentation
Process control and industrial automation
Robotics and Automation
Sensors and Instrumentation systems
Artificial intelligent and optimization systems
Bringing Big data to its knees by Deep learning techniques

TRACK 5: COMPUTING & BIG DATA
Chair: Umesh Bellur, IIT, Mumbai
Co-Chairs:
- Abdul Nazeer, NIT, Calicut
- Asrarul S, IIT, Trivandrum
Algorithmic information theory
Computability theory Cryptography & Information security
Theory of computation
Analysis of algorithms
Mathematical logic and Formal languages
Compilers
Database systems
Computer architecture & Networks
Big data
Data mining
Artificial intelligence
Natural language processing
Computer vision
Cloud computing
Distributed computing
Bioinformatics
Software engineering
Web technologies
E-Learning and E-Governance

IMPORTANT DATES
Last date for paper submission: April 15, 2017
Acceptance notification: June 15, 2017
Last date for camera-ready paper submission: July 15, 2017

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Prospective authors are invited to submit full papers (upto 6 pages in IEEE template) in PDF format. The conference paper template can be downloaded from the link http://www.ieee.org/conferences_events/conferences/publishing/templates.html All papers must include title, complete contact information of all the authors, abstract and keywords on the first page. Papers are to be submitted through EDAS conference management system using the link http://edoc.info/N16359. All the accepted and presented papers will be included in the IEEE conference proceeding and archived in IEEE Xplore digital library.

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