

# International Conference on Photonics, Signal Processing and Communication Technologies (ICPSPCT)

Dates: July 18<sup>th</sup> - 20<sup>th</sup> 2018 | [www.icpspct-ruas.org](http://www.icpspct-ruas.org)

**CALL FOR PAPERS**

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## Antennas and Microwave Engineering

- Antennas for Radar and Satellite Communication, Navigation and Remote Sensing
- Mobile Communication Antennas
- Wearable/Embedded/Nano Antennas
- Phased Array/Re-Configurable/Multi-Beam Antennas/Base Station Antennas
- Near Field/Far Field/Compact Range Measurements
- New Techniques in Antenna Measurements
- RF & Microwave Devices and Circuits
- Meta-Materials
- Optical Antennas
- Rectennas for Energy Harvesting

## System Design and Systems Engineering

- Systems Engineering for Dynamic Systems
- Model Based Systems Engineering
- Systems Engineering Standards
- Engineering Design Management
- Dependable Systems

The inaugural International Conference on Photonics, Communication and Signal Processing Technologies (ICPSPCT) is jointly organized by Centre for Signal Processing and Communication System Research (CSPCSR) and the Photonics Research Centre (PRC) of Ramaiah University of Applied Sciences (RUAS), Bangalore, India.

The conference is scheduled from July 18<sup>th</sup> - 20<sup>th</sup> 2018 at RUAS, Bangalore ICPSPCT serves as a platform for students, research scholars, academicians, industry professionals and researchers to publish their innovative research concepts as well as contributory research findings. This conference encourages submission of research papers highlighting analytical formulation, solution, simulation, algorithm development, experimental research and experimental investigations in the broad domains of Photonics, Signal Processing and Communication Technologies. This conference envisages and also encourages publication of research papers from allied fields of science and engineering depicting multidisciplinary research and industry-academia synergy.

The theme of the ICPSPCT includes Signal Processing, Image Processing, Communication, Microwave (Antenna/Measurements), Photonics, VLSI Circuits and Systems, Communication Networks, System Design and Systems Engineering.

The program of this three day conference will include invited talks, tutorials, exhibits and paper presentations (oral and poster). Select papers will be published in Springer book volume based on the publisher's criteria. This conference anticipates active participation from R&D Labs, Academia and Technology Development Groups from Industries.

### Important Dates

- Deadline for Submission of Research Paper: **01<sup>st</sup> March 2018**
- Notification of Acceptance of Research Paper: **30<sup>th</sup> April 2018**
- Camera Ready Submission of Research Paper: **01<sup>st</sup> June 2018**
- Conference Dates: **18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> July 2018**

Venue: Ramaiah University of Applied Sciences, Peenya Campus, Bangalore 560 058.  
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## Research Papers Invited for the Topics But not limited to the following

### Signal and Image Processing

- Array Signal Processing
- Biomedical Signal Processing
- Spectral Analysis
- Radar Signal Processing
- Adaptive Signal Processing
- Audio and Speech Processing
- Pattern Recognition
- Compressive Sensing
- Dimensionality Reduction Techniques
- Statistical Learning and Estimation Schemes
- Medical Image Analysis
- Hyperspectral Image Processing
- Time-Frequency/Time-Scale Analysis
- Content-Based Image Retrieval
- Computer Vision Techniques
- Image and Video Compression
- Image and Video Processing Architecture
- Video Analysis and Event Recognition
- Video Surveillance and Monitoring
- 3D Image Modeling and Visualization
- Graph Signal Processing

### Communication Systems and Networks

- Cellular Communications
- Multicarrier Techniques
- MIMO Systems
- SDR and Cognitive Radio Systems
- Cognitive Radio Networks
- Digital Beamformers
- Next-Generation Network Architectures
- Future Internet
- Network Performance
- 5G Networks
- Machine to Machine (M2M) Communication
- Wireless Networks
- Self-Configurable Systems
- Internet of Things
- Cloud Computing
- Heterogenous Networks
- Green Communication Systems and Network
- Mobile Computing
- Smart Cities and Smart Grids
- Vehicular Networks
- Information - Centric Networks
- Opportunistic Networks
- Underwater Networks
- Software Defined Networks

### VLSI Circuits and Systems

- Pipeline/Parallel Architectures
- Multicore Architectures
- System on Chip and Network on Chip
- 3D ICs
- Power Analysis
- Temperature Aware Design
- Physical Design, Layout and Packaging
- High Speed Board Design
- EMI / EMC
- PI and SI Analysis
- On Chip Antennas
- Low Power ASICs
- Low Power Processors
- CAD for VLSI
- Device Modelling
- IP Cores
- Analog VLSI Design Automation
- FinFET Technology

### Photonics

- Organic LEDs
- Photonic Crystal Devices
- Micro-Opto Electro Mechanical Systems
- Optoelectronics and Integrated Optics
- Bio, Microwave and Nano Photonics
- High Power / Intensity Sources
- Non-Linear and Ultrafast Optics
- Optical Interconnects
- Optical Micro and Nano Resonators
- Optical Networks and Systems
- Photonic Integration and Packaging
- Photonic Materials
- Photodetectors and Optical Sensors
- Semiconductor Lasers