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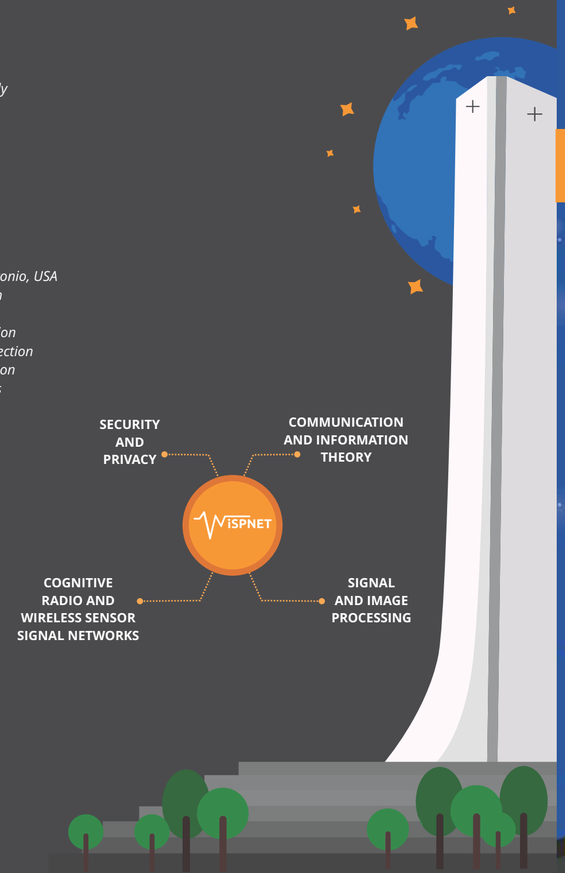

WiSPNET

WiSPNET

SSN

2019 INTERNATIONAL CONFERENCE ON

WIRELESS COMMUNICATIONS, SIGNAL PROCESSING & NETWORKING

MARCH 21-23, 2019

KEY DATES

- **31 December 2018** Paper Submission Date
- **15 February 2019** Author Registration Due
- **31 January 2019** Acceptance Notification Date
- **21 – 23 March 2019** Conference
- **15 February 2019** Final Paper Submission Date

ADVANCING WIRELESS & MOBILE COMMUNICATIONS TECHNOLOGY FOR 2020 INFORMATION SOCIETY

INTERNATIONAL CONFERENCE

The IEEE international Conference on Wireless Communications, Signal Processing and Networking (WiSPNET) will be held at Electronics & Communication Engineering Department, Sri Sivasubramaniya Nadar College of Engineering, Chennai-603110, India, from March 22 to 24, 2018, under the theme "Futuristic Wireless Mobile Communications Frontiers for Smart World".

SSN College of Engineering (SSNCE) is the outcome of the vision and initiative of Padma Bhushan Dr. Shiv Nadar, Chairman of HCL Technologies Ltd. The institution was established in 1996 on a sprawling campus of 250 acres on Rajiv Gandhi Salai (OMR) of Chennai. SSN is one of the top E-schools in India and March is the ideal time to host the event at this Institution which is located close to Chennai, the 4th largest Indian city and the 36th metropolitan city the world over, a vibrant multicultural, multilingual and one of the oldest welcoming cities in India that offers visitors a unique experience. Also, some of umpteen interesting tourist locations near the conference venue include, Pondicherry once a French colony, Mahabalipuram that hosts ancient temples and rock carvings of the 7th century, Marina Beach the second longest beach in the world, Semmozhi Poonga, The Huddleston Gardens Of Theosophical Society, Arignar AnnaZoological Park - the first ever zoo in India, Kapaleeswarar Temple - one of the oldest temples in the city, National Art Gallery, Connemara Public Library that was established in the year 1896, etc.

WiSPNET, shall provide a new forum for the world-class researchers to gather and share their research achievements, ideas and progress that is required to solve the future challenges that the Information Communication field face.

TRACK 01

ANTENNAS AND PROPAGATION, COMMUNICATION THEORY AND INFORMATION THEORY

- MIMO and multi-antenna communications
- Underlay/overlay systems
- Error control coding including turbo codes, LDPC and iterative decoding
- Multiuser, network, massive and distributed MIMO systems
- Cooperative communications and relaying
- Fundamental limits, information theory for wireless
- Multiple access schemes, multiuser detection
- Interference mitigation and management
- Communication with limited feedback, Precoding and scheduling
- Space-time coding and processing, Interference alignment techniques
- Wireless Communications Powered by Energy Harvesting and Wireless Power Transfer
- Spread spectrum systems: UWB, CDMA,MC CDMA, MC DS CDMA
- Information theory
- Adaptive modulation and coding
- Network coding
- Spectrum sensing & dynamic spectrum access
- Detection, equalization, synchronization, estimation
- Performance analysis, field tests and measurements
- Resource allocation and interference management
- Satellite and high altitude platforms
- Antennas and propagation
- Localization techniques
- Physical layer security
- Advanced Multicarrier waveforms: beyond OFDM and filterbank-based schemes
- Radio over fiber techniques
- Wireless channel modelling
- Gigabit wireless communications for 5G
- Millimeter wave and visible light communications
- Cognitive wireless networks
- PHY layer design for cellular, wireless LAN, ad hoc, and sensor networks
- Energy efficient PHY layer design, energy harvesting
- Over-the-air testing
- Cross-layer air interface design
- Ultra wideband, mmWave, and sub-THz communications
- Information-theoretic aspects of wireless communications
- Concepts for 5G and future PMR/PPDR broadband systems
- Signal processing for wireless communications
- Next generation M2M communications for internet of things

TRACK 02

NETWORKING, PROTOCOLS, COGNITIVE RADIO, WIRELESS SENSOR NETWORKS, SERVICES AND APPLICATIONS

- Ad-hoc and mesh networks
- Cognitive radio networking
- Software defined networking
- Radio resource management and interference control
- ICT applications in smart cities and smart grid
- Homeland security and military communications
- Mobile Internet
- Wireless sensor networks
- Self-organisation
- Cross layer design
- Wireless routing techniques
- Mobility management
- Green networking and Energy harvesting
- Innovative services and applications
- Implementation concepts and test beds
- Device-to-Device (D2D) Communication
- Delay tolerant networks
- Heterogeneous and small cell networks
- Traffic control and engineering
- Optical wireless and visible light communications
- End-to-End QoS and QoS provisioning
- Cloud-based networking techniques (mobile cloud computing, Cloud-RAN)
- Network virtualization
- Networking techniques for mmWave
- Vehicular Networks (VANETs)
- Machine-to-machine communications and applications
- Wireless MAC protocols for 5G: design, analysis, and optimization
- Cognitive and cooperative MAC
- MAC for mesh, ad hoc, relay, and sensor networks , Scheduling and radio resource management
- Cross-layer MAC design , Software defined radio, RFID MAC , QoS support and energy efficient MAC
- MAC protocol for energy harvesting wireless networks
- MAC protocols for molecular and bacterial nano networks
- MAC design for multi-tier cellular/small cell networks
- Multiple access in machine-to-machine communications
- MAC for cloud radio access networks (Cloud-RANs)
- Wireless personal/body area networks (WPAN/WBAN) and Context awareness
- Internet of Things (IoT) and Internet of Everything (IoE)

TRACK 03

SECURITY AND PRIVACY

- Authentication
- Cryptanalysis
- Digital forensics
- Cloud computing security
- Threat modelling
- Cyber - physical security
- Applied cryptography
- Data and application security
- Embedded systems security
- Intrusion detection
- Key management
- Wireless or mobile security and privacy in health, automotive, avionics, or smart grid applications
- Access control
- Wireless and mobile privacy and anonymity
- Mobile computing security
- Secure localization and location privacy
- Security architectures
- Security & privacy for smart devices (e.g., Smartphones)
- Security and privacy for mobile sensing systems
- Trusted computing
- Security solutions in VLSI

TRACK 04

SIGNAL AND IMAGE PROCESSING

- Audio and acoustic signal processing
- Multimedia signal processing
- Bio-inspired image and signal processing
- Nonlinear signal processing
- Design and implementation of signal processing systems
- Image Fusion
- Speech processing
- Image and video processing
- Signal processing theory and methods
- Sensor array, multichannel and communications signal processing
- Machine learning
- Signal processing for education
- Medical image and signal processing
- Signal processing applications
- Compressive Sensing
- VLSI signal processing