

2021



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CHENNAI



**SCHOOL OF ELECTRONICS ENGINEERING (SENSE)
VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI**

in joint collaboration with

**UNIVERSITI TUNKU ABDUL RAHMAN
UTAR, SUNGAI LONG CAMPUS MALAYSIA**



Springer

**VIRTUAL INTERNATIONAL CONFERENCE
ON FUTURISTIC COMMUNICATION AND
NETWORK TECHNOLOGIES
(VICFCNT - 2021)**

DECEMBER 10-11, 2021

<https://chennai.vit.ac.in/vicfcnt>

Contact us:

secretariat.vicfcnt2021@vit.ac.in

TRACKS

TRACK 1 - ARCHITECTURE, APPLICATIONS AND SECURITY OF CYBER PHYSICAL SYSTEMS

CYBER PHYSICAL SYSTEMS: COMPUTATIONAL INTELLIGENCE SYSTEM APPROACHES ON SMART CITIES
ENERGY / SMART GRID, SMART MEDICAL SYSTEMS, TRANSPORTATION SYSTEMS
CYBER SECURITY: SECURITY, PRIVACY ASPECTS IN CPS MODELLING
COGNITIVE AND BIOLOGICALLY-INSPIRED VISION
COGNITIVE COMPUTING
DEVOPS
BIOMETRIC SECURITY
AMBIENT COMPUTING
INTELLIGENT CONTROL
ROBOTICS DRIVEN CPS

AR, VR & MIXED REALITY (EXTENDED REALITY)
INTELLIGENT APPS
MALWARE PROTECTION
SECURITY ISSUES IN IOT/ INTERNET OF VEHICLES
HUMAN COMPUTER INTERACTION
M2M COMMUNICATIONS

TRACK 2 - OPTICAL COMMUNICATION NETWORKS AND DEVICES

OPTICAL FIBER COMMUNICATION
FREE SPACE OPTICS
APPLIED OPTICS
HOLOGRAPHY
SILICON PHOTONICS
MACHINE LEARNING IN OPTICAL NETWORKS
OPTICAL ON CHIP DEVICES

OPTICAL NETWORKS
VISIBLE LIGHT COMMUNICATION
OPTICAL SIGNAL PROCESSING
OPTICAL SENSORS
BIOPHOTONICS
OPTICAL NETWORKS IN CLOUD COMPUTING
QUANTUM DOT DEVICES

TRACK 3 - ACOUSTICS, SPEECH, VIDEO SIGNAL PROCESSING

AUDIO AND ACOUSTIC SIGNAL PROCESSING
SIGNAL PROCESSING THEORY & METHODS
MACHINE LEARNING FOR SIGNAL PROCESSING
SPOKEN LANGUAGE PROCESSING
SIGNAL PROCESSING FOR CYBER SECURITY
SIGNAL PROCESSING EDUCATION
INTELLIGENT TRANSPORT SYSTEMS
IMAGE PROCESSING
MACHINE LEARNING IN IMAGE AND VIDEO PROCESSING
COMPUTER VISION APPLICATIONS USING MACHINE AND DEEP LEARNING

BIOMEDICAL SIGNAL PROCESSING
SIGNAL PROCESSING FOR BIG DATA
SPEECH PROCESSING
SIGNAL PROCESSING FOR SMART SYSTEMS
SIGNAL PROCESSING FOR BRAIN-MACHINE INTERFACE
DSP PROCESSORS AND FPGA APPLICATIONS
MEDICAL IMAGE PROCESSING AND ANALYSIS
VIDEO PROCESSING

TRACK 4 - WIRELESS COMMUNICATION NETWORKS AND SYSTEMS

MACHINE LEARNING IN COMMUNICATION NETWORKS
COGNITIVE RADIO
EDGE COMMUNICATIONS
INFORMATION THEORY AND CODING
MMWAVE NETWORKS
WIRELESS LANS
5G AND BEYOND COMMUNICATION SYSTEMS
WIRELESS BODY AREA NETWORKS
CLUSTERING IN WSN
WIRELESS NETWORKS

DEVICE TO DEVICE (D2D) COMMUNICATIONS
ENERGY HARVESTING AND GREEN COMMUNICATIONS
QUANTUM COMMUNICATIONS
5G / NEXT-GENERATION NETWORKS
SOCIAL NETWORK AWARE WIRELESS NETWORK
PERFORMANCE ANALYSIS
WIRELESS SENSOR NETWORKS
LOCALIZATION IN WSN WITH IOT
SENSING COVERAGE AND IMPACT OF INTERFERENCE IN
POWER OPTIMIZATION AND IMPROVING LIFETIME

TRACK 5 - ANTENNAS, MICROWAVE AND RF FOR EMERGING TECHNOLOGIES

BIOMEDICAL ANTENNAS AND APPLICATIONS
MOBILE AND IOT ANTENNAS
DRONE SYSTEM AND ANTENNAS
RFID ANTENNAS AND SYSTEMS
ULTRA-WIDEBAND SYSTEMS AND ANTENNAS
ON-CHIP ANTENNAS , NANO AND RF MEMS ANTENNA
DRA AND SIW ANTENNA
EBG, FSS, AMC AND METAMATERIAL BASED ANTENNA
WIRELESS POWER TRANSMISSION AND HARVESTING ANTENNAS AND SYSTEMS
MILLI-METER WAVE, TERAHERTZ, INFRARED, AND OPTICAL ANTENNAS
RF AND MICROWAVE DEVICES(FILTERS, COUPLERS , AMPLIFIERS RESONATORS AND MICROWAVE ABSORBERS ETC.)

MIMO ANTENNAS FOR 5G AND 6G
SATELLITE AND VEHICULAR COMMUNICATION ANTENNAS
RADAR, PHASED ARRAY ANTENNA AND STEALTH ANTENNAS
SOFTWARE-DEFINED/COGNITIVE RADIO
MIMO ANTENNAS AND SYSTEMS
3D PRINTED ANTENNAS AND STRUCTURES
ACTIVE INTEGRATED ANTENNAS

TRACK 6 – FUTURISTIC TECHNOLOGIES

THZ DEVICES AND CIRCUITS
SMART HEALTHCARE
TESTBED AND PROTOTYPE DEVELOPMENT (5G, 6G)
QUANTUM COMPUTING
FOG COMPUTING IN NETWORKS
NEUROMORPHIC SYSTEMS
AUTONOMOUS AND INTELLIGENT TRANSPORTATION
ROBOTIC COGNITION AND COMPUTING
INFORMATION SECURITY

VIRTUAL LEARNING ENVIRONMENTS
WEARABLE COMPUTING
BLOCKCHAINS AND CRYPTOCURRENCIES
COGNITIVE COMPUTING
EDGE COMPUTING
CONTEXT-AWARE PERSASIVE SYSTEMS
SMART CITIES
INTERNET FOR EVERYONE
PHOTONICS/PLASMONICS

TRACK 7 – INTERNET OF THINGS/ INTERNET OF EVERYTHING/ INTERNET OF NANO THINGS

INDUSTRIAL IOT
VOICE USER INTERFACE BASED IOT
BLOCK CHAIN SECURED IOT
SECURITY THREATS ON IOT DEVICES AND NETWORKS
ADAPTIVE LEARNING ALGORITHMS FOR IOT
AI BASED IOT
ENERGY HARVESTING IN IOT
EFFICIENT FRAMEWORK TO STORE IOT DATA
ENVIRONMENTAL MONITORING USING IOT
INTERNET OF NANO THINGS IN BODY SENSOR NETWORK (BSN)

IOT BASED MOBILE AUGMENTED APPLICATIONS
DIGITAL TWIN DEPLOYED IOT
SECURING IOT APPS
EMBEDDED SYSTEM BASED IOT
IOT DEVICE MANAGEMENT
IOT NETWORK DESIGN
SOCIAL IOT
INTERNET OF NANO THINGS IN AUTOMATIVE INDUSTRY
DATA DRIVEN IOT

TRACK 8 – MEMS/NEMS FOR FUTURE NETWORKS

MEMS IN COMMUNICATION
CNTFET, GAAFET, FINFET, NRAM DEVICES
BIOMEMS
FLEXIBLE ELECTRONICS

IOT BASED MEMS DEVICES
WEARABLE DEVICES
OPTICAL-MEMS
NANOTECHNOLOGY ROLE IN NETWORKING APPLICATIONS

TRACK 9 – WEARABLE TECHNOLOGIES

BIOMEDICAL SIGNAL AND IMAGE PROCESSING
HEALTHCARE
HEALTHCARE TELEMETRY AND TELEMEDICINE
5 G FOR HEALTHCARE APPLICATION
ALL-PERVASIVE WIRELESS SYSTEMS FOR HEALTH APPLICATIONS

INTERNET OF THINGS (IOT) AND FOG COMPUTING IN
WEARABLE, OUTDOOR AND HOME-BASED APPLICATIONS
REMOTE DIAGNOSIS AND PATIENT MANAGEMENT
MOBILE HEALTH AND WEARABLE SENSOR NETWORKS

**ALL THE PRESENTED AND ACCEPTED PAPERS WILL BE PUBLISHED IN
SCOPUS INDEXED PUBLICATIONS**

IMPORTANT DATES

EXTENDED DEADLINE FOR FULL PAPER SUBMISSION	1ST SEPTEMBER, 2021 20 TH SEPTEMBER, 2021
FINAL ACCEPTANCE NOTIFICATION	1 ST NOVEMBER, 2021
EARLY BIRD REGISTRATION	1 ST NOVEMBER, 2021-10 TH NOVEMBER, 2021
CAMERA READY FINAL PAPER	10 TH NOVEMBER, 2021
LAST DATE FOR CONFERENCE REGISTRATION	30 TH NOVEMBER, 2021

REGISTRATION FEE

FACULTY / INDUSTRY / STUDENTS

INDIA (INR)

4000*

FOREIGN (USD)

250

EARLY BIRD REGISTRATION FEE

FACULTY / INDUSTRY / STUDENTS

3000*

200

* INCLUSIVE OF GST