



**2nd INTERNATIONAL CONFERENCE ON
VLSI, Signal Processing, Power
Electronics, IoT, Communication and
Embedded Systems
(VSPICE-2020)**

(Under the Aegis of ICETE 2020 Multi-Conference Platform)

December 22nd – 23rd 2020

Mode of Conduction: Online

**Organised by
Department of Electronics & Communication Engineering**



(An Autonomous Institution affiliated to VTU, Belagavi)

Nitte – 574 110, Karkala Taluk, Udupi District, Karnataka, India
ISO 9001:2015 Certified, Accredited by UGC NAAC with 'A' Grade

About the Institute

N.M.A.M. Institute of Technology was established in 1986. The college is affiliated to Visvesvaraya Technological University (VTU), Belagavi and is recognized by All India Council for Technical Education (AICTE), New Delhi. Institute is accredited by National Assessment & Accreditation Council (NAAC) and all the Undergraduate programs are accredited by National Board for Accreditation (NBA). Institute is placed in "A" grade by NAAC, Bengaluru. Institute is certified by ISO 9001-2015 standards for quality education by NVT Quality Certifications (ANAB accredited). The institution has been granted Academic Autonomy under the VTU, Belagavi from 2007-08.

The Institute offers graduate programs in 7 branches of Engineering - Biotechnology, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Information Science and Engineering and Mechanical Engineering. The college also offers postgraduate programs like Master of Technology, Master of Computer Applications and Master of Business Administration. All departments have been recognized as research centres for offering M.Sc. (Engg.) & Ph.D. programmes under VTU, Belagavi.

The Institute is located on Padubidri-Karkala State Highway which is well connected with Mangaluru (60 km) and Udupi/Manipal (40 km) through NH 66 & NH 169. The participants can alight at Mangaluru or Udupi Railway Stations/Bus Terminals or Mangaluru Airport to reach the Institute.

About the Conference

Department of Electronics and Communication Engineering, N. M. A. M. Institute of Technology, Nitte, India is organizing Second International Conference on "VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems (VSPICE-2020)" as a part of Multi-Conference on International Conference on Emerging Trends in Engineering (ICETE- 2020) on 22nd and 23rd December 2020.

The conference is dedicated to driving innovation in nearly every aspect of Electronics & Communication and Engineering. The conference provides platform for researchers, professionals, executives and practicing engineers from various industries, research institutes and educational bodies to share and exchange their ideas on the theme of the conference. A series of keynote presentations, technical paper and poster presentations are planned to discuss new issues, tackle complex problems and find advanced enabling solutions which are able to shape new trends and enable the development of mankind as a whole.

Theme of the Conference

Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems pave a pathway for the development of efficient and economic systems. For making the best use of resources, expertise in multiple specializations and interdisciplinary research is gaining prominence. Hence, the objective of the conference is to provide a platform for people who are working in Electronics, Communication and allied disciplines to share their expertise and contribute to technical innovations.

Thrust Areas

Topics of interest include all aspects of VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems including, but not limited to:

VLSI

- VLSI CAD Algorithms for Design Automation
- Analog/Mixed-Signal System Design
- Testability & Design for Test
- Crypto VLSI Design
- Deep Submicron Design & Modeling Issues
- Digital Circuits & FPGA based Designs
- Digital System Design & Validation
- Emerging CMOS Technology
- Low Power & Power Aware Design
- Post-CMOS VLSI
- Reconfigurable Systems
- System Design & Security
- Testing
- Reliability
- Fault-Tolerance
- VLSI Applications in Communication
- 3-D Integration & Physical Design

Power Electronics

- Converters, Rectifiers, and Inverters
- Power Electronic Systems
- High Power Density Power Converters
- Power Electronics in Renewable Energy Systems
- Smart Grids
- Applications of Nonlinear Methods to Power Electronic Systems



Embedded Systems

- Adaptive Embedded Systems
- Automotive and Avionic Systems
- Distributed Embedded Computing
- Embedded Real-Time Operating Systems
- Embedded Robotics
- Instrumentation and Measurement
- Embedded Software Engineering
- Hardware/Software Co-Design
- High Performance Computing Systems
- Identification and Supervision Systems
- MEMS
- Microcontroller & FPGA Implementation
- Multi-Objective Optimization
- Networked Embedded Systems
- Real-Time Systems and Applications
- Security in Embedded Systems
- Software & Hardware Architectures for Embedded Systems
- Testing and Benchmarking

Signal Processing

- Adaptive Signal Processing
- Applications of Signal Processing
- Artificial Neural Network (ANN)
- Biomedical Signal & Image Processing
- Deep Learning
- Feature Extraction
- Image & Video Processing
- Machine Learning
- Multi-Rate Signal Processing
- Non-Linear Signal Processing
- Non-Stationary Signal Processing
- Pattern Recognition & Classification
- Signal Models in Communication
- Signal Transforms
- Speech Processing

Internet of Things

- Big Data
- Cloud Computing in IoT
- Cloud Computing Architecture
- Cloud Storage
- Security and Privacy in IoT
- IoT Applications and Services
- Signal Processing in IoT



Communication

- Antenna Design
- Congestion & Admission Control
- Cognitive Radio
- Information-Theoretic Aspects of Wireless Communications
- Integrated Wireless/ Optical Networks
- Mesh, Sensor & Adhoc Networks
- Microwave & RF Communication
- MIMO Systems
- Mobile Edge Computing
- OFDM
- Multi-Carrier Modulation
- Waveform Design
- Optical Networking
- Routing in Wireless Networks
- Satellite Communication
- Scheduling & Radio Resource Management
- Software Defined Radio
- Wireless Body Area Networks & E-Health Services
- Wireless Network Security & Privacy
- Ultra-Reliable Communication

Invited Speakers

Eminent researchers, academicians and industrialists will be delivering keynote address on topics pertaining to the major themes of the conference. The list of keynote speakers and related details will be updated on the website.

Publication

Select papers from the conference will be published by Springer as a proceedings book volume in Lecture Notes in Electrical Engineering (Indexed in Scopus). Springer will conduct quality checks on the accepted papers and only papers that pass these checks will be published.



"THE BEST PAPER WILL BE AWARDED IN EACH STREAM"

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VLSI

Power Electronics

Signal Processing

Embedded Systems & IoT

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Important Dates

Last Date for Paper Submission	: 10 th September 2020
Notification of Acceptance	: 01 st October 2020
Camera - Ready Paper Submission	: 10 th November 2020
Last Date for Registration	: 01 st December 2020
Conference Dates	: 22 nd & 23 rd December 2020

Paper Submission

Full length papers in IEEE format not exceeding 8 pages are to be submitted through the easy chair conference management system <https://easychair.org/conferences/?conf=vspice2020>

Preconference Tutorial

Eminent researcher/academician/industrialist will be delivering one day pre conference tutorial on topics pertaining to the major themes of the conference. The pre-conference speaker and related details will be updated on the website.

Registration Fee

Indian Delegates		Foreign Delegates	
Pre Conference Tutorial	Conference	Pre Conference Tutorial	Conference
₹ 500	₹ 1000	\$ 10	\$ 20

Mode of Payment

Payment of Registration fee can be made in the form of:

Demand Draft in favour of **“Nitte Education Trust”** payable at Nitte. Demand Draft may be sent through post to N.M.A.M. Institute of Technology, Nitte-574110, Karkala, Karnataka, India. **NOTE:** Please specify **Paper ID** and **VSPICE-20** conference on the back of Demand Draft.

Wire transfer through NEFT as per the details given below:

ACCOUNT HOLDER : NITTE EDUCATION TRUST
ACCOUNT NUMBER : 01152200033493
TYPE OF ACCOUNT : Savings Bank
BANK : Syndicate Bank, Nitte
SWIFT Code : SYNBINBB014
IFSC : SYNB0000115
MICR Code : 576025533

NOTE: Please note that Delegates must mention their Paper ID and VSPICE-20 without fail in Bank Statement.

Conference Location

Nitte is a village in Karkala taluk of Udupi district, India. Nitte is on the state highway from Padubidri to Kudremukh. It is 8 km away from Karkala, 36 km from Udupi and 54 km from Mangaluru. It is located on the foothills of the Western Ghats Mountains and receives an annual rainfall of around 4830 mm. The state highway SH-1 cuts across Nitte which connects to the National Highway NH-66 at Padubidri and NH-13 near Karkala.

There are ample number of tourism destinations near Nitte.

To name a few

- Sri Krishna Math, Udupi
- Beach, Malpe
- Thousand Pillar Temple, Moodbidri
- Chaturmukha Basadi, Karkala
- Attur Church, Karkala
- Durgaparameshwari Temple, Katil
- Kudremukh forest ranges
- Light house, Kaup



Contact Details :

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