



International Conference on Advances in Communications, Networks and Informatics

ICACNI-19

30th -31st August 2019

Web: www.icacni.in

Email: srmicacni@gmail.com



Organized by

Department of Computer Science Engineering

SRMIST, Delhi-NCR Campus

Delhi-NCR Campus, Delhi-Meerut Road, Modinagar, Ghaziabad-
201204 (U.P.)

Website: www.srmuniv.ac.in/ncr, www.srmuniv.ac.in

For further details please contact,

Dr. R.P. Mahapatra, Professor & HOD,

(For more details visit Web: www.icacni.in)

ABOUT SRMIST- NCR Campus

The SRM Institute of Science and Technology (formerly known as SRM University) NCR Campus is a leading, world-class institution, offering diplomas, undergraduate, postgraduate or doctoral programs in engineering, management and Science and Humanities. SRM Institute of Science and Technology (formerly known as SRM University) is one of the top ranking universities in India with over 20,000 students and 1,500 faculty. SRM Institute of Science and Technology (formerly known as SRM University) is a part of 40 years old SRM group of Educational Institutions that are known for providing quality education in frontier areas.

Foreign faculty, flexible and dynamic curriculum, exciting research and global connections are the features that set SRM apart. Students have a wide choice of cutting edge programs, including Nanotechnology, Bioinformatics, Genetic Engineering, Remote Sensing and GIS, Embedded Systems or Computer Forensics to choose from. Most of these courses are offered in close collaboration with foreign universities.

The University is approved by the UGC by the Union HRD Ministry in 2002-2003 vide notification number F9-9/98-u-3dated 2nd August 2002. Accredited by NAAC (2006-2011) and now in the process of re-accreditation. SRM Institute of Science and Technology (formerly known as SRM University) is ranked India no. 1 multiple stream – Engineering and Medical in Education Times (The Times of India) - GFK Model Survey 2009. SRM Institute of Science and Technology (formerly known as SRM University) ranked with the top 5 institutions in Tamil Nadu by Outlook Magazine. SRM Educational establishments have associations with international universities and colleges in USA, UK, Korea, New Zealand, Switzerland etc.

The campus is spread over many acres of lush green lawn environment located at Modinagar in Delhi-Merrut highway with many topographical features all around. The location of the campus is apt and provides an environment for innovation and creativity. Roads within the campus are wide and clean. The academic building accommodates various teaching activities, include personality development and communication skills which derive the students' ability to emerge them to become a good leader.

The aroma of learning can be felt within the campus all around. Students and teachers share abyss of knowledge that makes the zone of compatibility and comfort.

ABOUT DEPARTMENT OF CSE

B.Tech- Computer Science & Engineering

The Department of Computer Science is renowned for cutting edge research and for imparting state of the art world class education. We attract some of the excellent students and faculty.

The Department of Computer Science imparts international level training and research. The Department provides high standard computing facilities to the students. It also promotes active industry-department affiliation by finding common areas of interest and taking part in research projects and consultancy services.

Our research exists in the areas of systems, software, networking, databases, security, and foundations of computer science, artificial intelligence, robotics, and scientific computing. Besides basic research, interdisciplinary work on applications that stimulate basic research has been undertaken under Department of Computer Science.

Computer Science Lab

Our Computer Science Department is designed in such a manner that the computer science program orients students toward the pragmatic aspects of computer science and provides the learning and practices to make them proficient computing professionals.

M.Tech

The four semester M.Tech. Programmes at SRMIMT are offered in various disciplines and streams by different departments of the University and are based on the international standards and provide a student with wide choice of courses.

Each programme comprises of several core and elective courses and project work. It is provided in the following Disciplines

- Computer Science & Engineering
- VLSI

ABOUT THE CONFERENCE

The International Conference on Advances in Communications, Networks and Informatics (ICACNI-19) will be held at Department of Computer Science Engineering, SRMIST, Delhi-NCR Campus, Delhi-Meerut Road, Modinagar, Ghaziabad-201204 (U.P.) during **30th -31st August 2019** with the technical support from Springer.

Scope of Conference

The aim of the conference is to provide an international forum for industry professionals and researchers to deliberate and state their research findings, discuss the latest advancements and explore the future directions in the emerging areas of **Communications, Networks and Informatics**.

Also ICANCI-2019 aims to bring together both novice and experienced scientists with developers, to meet new colleagues, collect new ideas and establish new cooperation between research groups and provide a platform for researchers from academic and industry to present their original work and exchange ideas, information, techniques and applications in the field of Computer Science Engineering, networking, Big Data, Cloud Computing, Data Analytics, IoT and other blooming areas of research.

All the accepted research articles will be considered for Springer series "Communications in Computer and Information Science (CCIS). [Pending Approval](Scopus Indexed)

Call for Papers

Original Contributions are solicited on topics covered under broad areas such as (but not limited to):

Track 1: COMMUNICATIONS

- Autonomic Communications
- Big Data Computing and Clouds
- Security, Trust and Privacy
- Cellular and Mobile Communications
- Cloud Communications and Networking
- Cognitive Radio and Cognitive Networks
- Communications Software
- Cooperative Networking
- Cross-layer Optimization
- Cyber-Physical Systems and Social Computing
- Data Centers and Storage Area Networks
- Delay-Tolerant Networks
- Dependable Wide, Local, and System Area Networks
- Digital Signal Processing and Communication Systems
- Disaster Warning, Avoidance, and Response
- Embedded Networks
- Energy-efficient Computation and Communication
- Fault tolerance, Reliability and Survivability
- Future Internet and Next-Generation Networking Architectures
- Intelligent and Secure Transportation Systems
- Interconnection Networks and Architectures
- Internet Computing
- High Performance Switching and Routing
- Large-Scale Networking
- Link technologies
- Load Balancing, Scheduling and Resource Management
- Local-Area and Metropolitan-Area Networks
- Near-Field Communications
- Network Management, Reliability and QoS
- Network Protocols and Algorithms
- Network Simulation and Emulation
- Opportunistic Networking
- Overlay and Peer-To-Peer Networks
- Parallel and Distributed Algorithms
- Remote Area Communications
- Satellite and Space Communications
- Smart Antenna Based Networking

- Smart Grid Communications
- Social Networks, Crowdsourcing, and Crowdsensing
- SDN and Network Function Virtualization
- Vehicular, Underground and Underwater Networks
- Wireless Ad-Hoc, Sensor and RFID Networks
- Wireless Multicasting and Broadcasting

Track 2: COMPUTING & INFORMATICS

- Algorithmic Engineering
- Artificial Intelligence and Machine Learning
- Metaheuristic Techniques and Applications
- Natural Language Processing and Machine Translation
- Nature Inspired Computing
- Autonomic Computing and Agent-based Systems
- High Performance Cloud Computing
- Data Management, Exploration and Mining
- Bioinformatics and Systems Biology
- Biomedical Computing and Communications
- Computational Intelligence and Applications
- Intelligent Circuits and Systems
- Intelligent Control and Automation
- Human Computer Interaction and Interface
- Image Processing and Computer Vision
- Computer Graphics, Simulation and Modeling
- Visual and Multimedia Computing
- Pattern Recognition and Analysis
- Pervasive and Ubiquitous Computing
- Medical Informatics
- Recommender Systems
- Audio and Speech Processing
- Business Intelligence and Big Data Analytics
- Cryptography and Applied Mathematics
- Software Engineering and Services Computing
- Fog/Edge Computing
- File and Storage Technologies
- Mathematical Modeling and Scientific Computing
- Computer Architecture and VLSI
- Control and Systems Engineering
- Digital and Embedded Systems
- Multicore Computing
- Reconfigurable Systems and Architectures
- Power-Efficient and Reconfigurable Architectures
- Robotics and Intelligent Control
- VLSI Circuit Design and CAD Tools

- Digital Photogrammetry, Remote Sensing, GIS and GPS
- E-Governance, E-Commerce, E-Business
- Educational Computing
- Agricultural Informatics and Communication
- Neuroinformatics
- Public Safety and Emergency Management
- Information Ecology and Knowledge Management
- Business Informatics

- Scalability and Robustness for Internet of Things
- Modelling and Communicating Transparency in IoT
- Wearable Devices
- Transportation Systems, Smart Homes and Cities
- Emerging E-Health IoT Applications
- IoT Application Scenarios
- Performance Evaluation of IoT Technologies

Special track i: HYBRID INTELLIGENT MODELS AND APPLICATIONS

- Ant Colony for Neural Network Optimization
- Chaos Theory in Genetic Algorithms
- Genetic Algorithm for Fuzzy System Optimization
- Genetic Algorithms for Hybrid Intelligent Systems Design
- Genetic Algorithms for Neural Network Optimization
- Genetic Fuzzy Systems
- Genetic Neural Systems
- Hybrid Evolutionary Algorithms
- Hybrid Modular Neural Networks
- Hybrid optimization techniques
- Neuro-Fuzzy-Genetic Approaches
- Nature-inspired Smart Hybrid Systems
- Neuro-Fuzzy Models and Applications
- Hybrid Intelligent Systems for Pattern Recognition
- Hybrid Intelligent Systems for Data Analysis and Data Mining

Special Track II: INTERNET OF THINGS (IoT)

- IoT Architectures, Protocols, and Algorithms
- IoT Big Data Analysis
- IoT Device and Network Domain Technologies
- IoT Sensing Things Technology and Applications
- Cloud Computing and IoT
- Crowd-Sourcing and Opportunistic IoT
- Data Analytics and Decision Automation
- Data Management in IoT
- Efficient Resource Management Based on IoT
- End To End/Machine to Machine (M2M) Protocols
- Knowledge-Based Discovery of Devices in the IoT
- Localization in IoT
- Ontologies Describing IoT Devices and Their Use
- Provenance and Usage in the IoT
- Security, Trust, Privacy and Identity in the IoT
- Situational Awareness through Context Modeling In IoT
- User-Oriented, Context-Aware IoT Services

REGISTRATION FEES

It is mandatory that at least one author of each accepted paper register for the conference paper

Research Scholar /students	: ₹8500/-
Academician	: ₹9000/-
Industrial participant	: ₹10,000/-
Foreign Delegates	: US \$ 300
Foreign student	: US \$ 250

Payment can be made only online (For details visit the website: www.icacni.in)

IMPORTANT DATES

Paper submission	: June 25th, 2019
Acceptance Notification	: July 15th, 2019
Registration and camera ready	: July 25th, 2019
Conference Date	: 30th -31st August 2019

Committee

CHIEF PATRONS

Dr. T. R. Paari Vendhar, Chancellor, SRMIST, India
Mr. Ravi Pachamoothoo, Chairman, SRM Group, India
Mr. P. Sathyanarayanan, President, SRMIST, India
Dr. R. Shivakumar, Vice President, SRMIST, India
Dr. Sandeep Sanche, Vice Chancellor, SRMIST, India

PATRONS

Dr. T. P. Ganesan, Pro-Vice Chancellor, SRMIST, India
Dr. C. Muthamizhchelvan, Director (Engg&Tech), SRMIST, India
Dr. D. Narayanan Rao, Director (Research), SRMIST, India

GENERAL CHAIRS

Dr. B.K.Panigrahi , IIT Delhi, India
Dr. D. K. Sharma, Professor & Dean, SRM IST, NCR Campus
Dr. S. Viswanathan, Deputy Registrar, SRM IST, NCR Campus
Dr. R.P Mahapatra, Professor& Head(CSE), SRM IST, NCR Campus
Dr. Navin Ahalawat, Professor & Head(Computer Applications), SRM IST, NCR Campus

GENERAL CO-CHAIRS

Dr. swagatam Das, ISI, Kolkata
Dr. Subhransu Sekhar Dash, GCE kenjhor, Odisha
Dr. Valentina Emilia Balas, Professor,
Aurel Vlaicu university of Arad, Romania

HONORARY CONFERENCE CHAIR

Dr. Ivan Zelinka, TUO, Czech Republic
Dr. Ilhami colak , Gazi University, Turkey

Program Chairs

Dr. R.P. Mahapatra , SRMIST, Delhi-NCR Campus
Dr. Ramazan Bayindir, Gazi University, Turkey
Dr. Pradeep Kumar Mallick, VBIT Hyderabad

Program Co-Chairs

Dr. Sandeep Kumar Satapathy, VBIT Hyderabad

Reviewer Board:

Dr. Debahuti Mishra, ITER, SOA University, Odisha.
Dr. Sachidananda Dehury, F.M. University, Odisha.
Dr. Preetisudha Meher, NIT Arunachal Pradesh.
Dr. Brojo Kishore Mishra, CVRCE, Odisha.
Dr. Sandip Vijay, ICFAI University, Dehradun .
Dr. Shruti Mishra, Dept. of CSE, VBIT, Hyderabad.
Dr. Sashikala Mishra, IIIT, Pune.
Dr. Ebrahim Aghajari, Islamic Azad University of Ahvaz, IRAN.
Dr. Amiya Ranjan Panda, KIIT University, Odisha
Dr. Sudhakar Mande S, DBIT, Mumbai, India.

International Advisory Committee

Dr. Atilla ELÇİ, Aksaray University, Turkey.

Dr. Hongyan Yu, Shanghai Maritime University, Shanghai.

Dr. Benson Edwin Raj, Fujairah Women's College Fujairah, UAE.

Dr. Mohd. Hussain, Islamic University, Madina Saudi Arabia.

Dr. Avinash Konkani, University of Virginia Health System, Virginia, USA.

Dr. Yu-Min Wang, National Chi Nan University, Taiwan.

Dr. Ganesh R Naik, University of Technology, Sydney, Australia.

Dr. Steve S.H. Ling, University of Technology, Sydney, Australia.

Dr. Hak-Keung Lam, King's College London, United Kingdom.

Dr. Frank H.F. Leung, Hong Kong Polytechnic University, Hong Kong.

Dr. Yiguang Liu, Sichuan University, China.

Dr. Abdul Rahaman, Debre Tabor University, Ethiopia

Dr. Bandla Srinivasa Rao, Debre Tabor University, Ethiopia

Dr Ch.Suresh Babu , King Khalid University (KKU), K.S.A

National Advisory Committee

Dr. Kishore Sarawadekar, IIT-BHU, Varanasi, India.

Dr. T. Kishore Kumar, NIT Warangal, Warangal, AP, India.

Dr. Anil Kumar Vuppala, IIIT-Hyderabad, India.

Dr. Ganapati Panda, IIT-Bhuaneshwar, Odisha

Dr. Sachidananda Dehury, F.M. University, Odisha.

Dr. Brojo Kishore Mishra, CVRCE, Odisha.

Dr. Inderpreet Kaur, Chandigarh University.

Dr. R. Gunasundari, PEC, Puducherry, India.

Dr. Ragesh G., SCE, Kuttukulam Hills, Kottayam, India.

Dr. Debashish Jena, NITK, India.

Dr. N.P. Padhy, IIT-Roorkee

Dr. Sashikala Mishra, IIIT-Pune.

Dr. Subhendu Pani, OEC, Odisha.

Prof. Aksash Kumar Bhoi, SMIT, Sikkim.

Dr. Punal M. Arabi, ACSCE, Bangalore.

Dr. Mihir Narayan Mohanty, ITER, SOA, University.

Dr. R V Raj Kumar, Professor, IIT Kharagpur.

Dr. Allam Appa Rao, Chairman, NTTTR, Chennai.

Prof. Rajshree Srivastava, DIT University Dehradun India

Organizing Committee:

Ms. Arnika Jain
Mr. M. Mohan
Mr. A . Kulothungan
Mr. Mohanraj Ramasamy
Mr. Sunil Kumar
Ms. Monika Johri
Mr. Naresh Sharma
Mr. Rakesh Kumar Yadav
Mr. Analp Pathak
Mr. Partha Sarathi Chakraborty
Mr. Govind Verma
Ms. Vishakha Chauhan
Ms. Madhuri Sharma
Mr. Anand Krishna
Mr. Akhtar Nazir
Mr. Karthick Subramani
Mr. Chandra Chekher Tyagi
Mr. Govind Varma
Mr. Medhavi Malik
Mr. T. Sathesh Kumar
Mr. Rakesh Kumar Yadav
Ms. Megha Aggarwal
Mr. Manish Bhardwaj
Ms. Arti Tiwari
Mr. Jaswinder Singh
Mr. Bal Krishna Saraswat
Mr. Chandra Shakher Tyagi

Mr. Abhishek Sharma
Mr. Vikas
Ms. Shalika
Mr. Veepin Kumar
Mr. Ashish Shrivastava
Mr. Yashpal Yadav
Mr. R. Manikandan
Ms. Sachi Pandey
Mr. Shailesh Pancham Khapre
Mr. Chandra Prakash Sahu
Ms. S. Sowmyadevi
Dr. K. Vikram
Dr. D. Franklin Vinod
Mr. K. P. Singh
Mr. Devesh Kumar Sharma

Address for Communication

Dr. R.P. Mahapatra, Professor & HOD

DEPARTMENT OF CSE

Delhi-NCR Campus, Delhi-Meerut Road, Modinagar, Ghaziabad-
201204 (U.P.)

Website: www.srmuniv.ac.in/ncr, www.srmuniv.ac.in

