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**2018 INTERNATIONAL CONFERENCE
ON
ADVANCED COMPUTATION
& TELECOMMUNICATION**

ICACAT – 2018

28 – 29 DECEMBER 2018

IN ASSOCIATION WITH



**Department of Computer Science & Engineering
Lakshmi Narain College of Technology Excellence, Bhopal**

**Department of Electronics and Communication Engineering
Lakshmi Narain College of Technology, Bhopal**



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LNCT Group offers Diploma, Bachelor, Masters and Doctorate-level programs. LNCT Group of College having campuses in five locations of Madhya Pradesh and Chhattisgarh viz Bhopal, Indore, Gwalior, Jabalpur and Bilaspur in India.

LNCT Group is one of the Group institutes of its size in the India to offer program in varied field of study such as Engineering, Management, Pharmacy, Medical, Homeopathy, Dental and Nursing.

LNCT Bhopal campus is the historic campus in Bhopal, which dates back from 1994. The LNCT Medical College & Research Center located at Bhopal, MP. It is a part of LNCT Group of Colleges, which runs a hospital with 750 Beds and Medical courses are affiliated with Barkatullah University, Bhopal(M.P.), India.

All group institutions have the finest relations among the industry and academics. Today, prospective students will find 58 undergraduate, graduate as well as post graduate programs to pursue his/her career in Engineering, Management, Pharmacy, Medicine, Dentistry and Nursing. Education is not the only area we work in. We also take responsibility for the improvement of community around us. This instills in the students a feeling of responsibility and concern and makes them comprehend the world a bit better. Each one is better endowed to face the world and the satisfaction of having fulfilled their social responsibility is an added bonus.

LNCT Group appears as a world innovator in the world of higher education helping to create a better today & better tomorrow for the people of India and the universe.



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IMPORTANT DATES

Last Date for Full Paper Submission: 20 August 2018
Date of Notification for Acceptance: 25 September 2018
Date of Final Paper Submission: 15 October 2018
Date of Conference: 28-29 December 2018

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ABOUT THE CONFERENCE

2018 International Conference on Advanced Computation and Telecommunication (ICACAT) is technically sponsored by IEEE MP Sub-Section and IEEE Bombay Sub-Section. All accepted papers to be published in IEEE Xplore.

International Conference on Advanced Computation and Telecommunication (ICACAT-2018) features series of keynote talks from international and national delegates, special sessions, exhibits, and contributed research papers. ICACAT-2018 is going to be the premier forum for the presentation of new advances and research results in the fields of Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Information Technology, Electronics and Telecommunication Engineering, Master of Computer Application. Most of the popular topics are Intelligence, Cloud Computing, Big Data Computing, Nano Computing, Application of Artificial Intelligence, Data Networking, Mobile and Wireless Communication, Electronic System, Communication, Computational, Digital Signal, Image Processing, Control and Instrumentation, Embedded and VLSI, Microwave, Radar, Antenna, Digital Systems, Power Electronics, Power Distribution etc.. Computational Science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting Information and Communication Technologies as innovative technologies.

The aim and objective of the conference is to bring together academicians, researchers, professionals, executives and practicing engineers, from various industries, research institutes and educational bodies to share and exchange ideas and information on the theme of the conference. Developing economies, aspiration for improved quality of life and rise in the rate of growth have led to the development of various infrastructure facilities in the society. This conference offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions which are able to shape new trends in Computer Science and Telecommunication Technology for the development of human mankind being as a whole.

The main topics are given below track wise but not limited to.

Track-1: Computer Science & Engineering

- Algorithms and Bioinformatics
- Compiler Design
- Computer Architecture and Real time Systems
- Computer Education
- Database and Data Mining
- Dependable, Reliable and Autonomic Computing
- Distributed and Parallel Systems & Algorithms
- Image Processing/Pattern Recognition
- Embedded System and Software
- Information Technology Management
- Intelligent Information & Database Systems
- Natural Language Processing

- Networks and Wireless Communications
- Mobile computing and Software Reliability
- Coding
- Cryptography and Information Theory
- Computer vision
- Soft Computing (AI, Neural Networks, Fuzzy Systems, etc.)
- Theoretical computer science
- Web and Internet Computing
- Programming Languages
- Performance Evaluation
- Security and Information Assurance
- IT policy and Business Management

Track 2: Advanced Computing

- Artificial Intelligence and Machine Learning
- Computer Architecture and VLSI
- Computer Graphics, Simulation, and Modeling
- Data Management, Exploration, and Mining
- Digital System and Logic Design
- Natural Language Processing and Machine Translation
- Parallel and Distributed Algorithms
- Pattern Recognition and Analysis
- Robotics and Machine Vision
- Systems and Software Engineering
- Computational Intelligence
- Nature Inspired Computing

- Signal and Image Processing
- Reconfigurable Computing
- Cloud, Cluster, Grid and P2P Computing
- Biomedical Computing, Bioinformatics
- Green Computing
- Mobile Computing
- Ubiquitous Computing
- Context Awareness and Personalization
- Autonomic and Trusted Computing
- Cryptography and Applied Mathematics
- Security, Trust and Privacy
- Digital Rights Management
- Networked-Driven Multicore Chips
- Internet Computing

Track 3: Communications

- Software Defined Networks and Network Programming
- Control Systems and Applications
- Communications Software
- Human Computer Interaction and Interface
- Information Theory and Coding
- MEMS Technologies for Communications
- QoS and Resource Management
- RFID Networks and Protocols
- Satellite and Space Communications
- Optical Networks and Systems
- MIMO Communications in Computer Networks
- Internet measurement, modeling, and visualization
- Cloud Communications and Networking
- Compressed Sensing and Big Data
- Cooperative Networking
- Crowd sourcing and Machine Learning
- Cyber-Physical Systems
- Delay Tolerant Networks

- Sensor Networks and Embedded Systems
- Smart Spaces and Personal Area Networks
- Social Network Behaviors, Modeling, and Analysis
- Space Surveillance Techniques
- Vehicular, Underground and Underwater Networks
- Wireless Communication
- Future Internet and Next-Generation Networking Architectures
- High-Performance Networks and Protocols
- Virtual and Overlay Networks
- Network Simulation and Emulation
- Cognitive Radio and Cognitive Networks
- Fault Tolerance, Reliability, and Survivability
- Flow and Congestion Control
- Internet Security and Privacy
- Multimedia Networking
- Network Functions Virtualization
- Network Management
- Traffic Engineering

Track 4: Electrical and Electronics Engineering

- Hybrid Renewable Energy and Energy Saving
- Controllers, Drives and Machine Design
- Fuzzy and Hybrid Optimization
- Artificial Immune System
- Conditional Monitoring and Instrumentation
- Circuits and Devices
- Semiconductors
- Systems and Control Engineering
- Power Engineering

- Communication and Information Processing
- Electrical Engineering Communications
- Electromagnetic and Microwave
- Measurement and Testing
- Nano science and Nanotechnology
- Optics and Optoelectronics
- Devices and Systems
- Power Transmission

Track 5: 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

