



## 2<sup>nd</sup> INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN COMPUTATIONAL SCIENCES ICACS'19

18<sup>th</sup> - 20<sup>th</sup> FEBRUARY 2019, LAHORE, PAKISTAN

# CALL FOR PAPERS

International Conference on Advancements in Computational Sciences (ICACS'19) is the second International Conference, a joint effort by the **Department of Computer Science & Information Technology, The University of Lahore (UoL)** and **IEEE Lahore Section**. The goal of ICACS'19 is to bring together renowned scientists and leading researchers from academia and industry at one platform with the focus of exchanging ideas on modern computing innovations and applications.

**ICACS'19 invites full length research papers in six major tracks. All the accepted papers will be published and indexed by IEEE Xplore.**

For Conference Details and Registration, find us at:

<http://sites.uol.edu.pk/icacs19/>  [@icacs19](https://twitter.com/icacs19)  [icacs19](https://www.facebook.com/icacs19)  042-111-865-865 Ext: 5802

### IMPORTANT DATES

<b>Paper Submission Deadline:</b> 30 <sup>th</sup> September 2018	<b>Acceptance Notification:</b> 30 <sup>th</sup> November 2018
<b>Camera Ready Submission:</b> 15 <sup>th</sup> December 2018	<b>Early Bird Registration:</b> 15 <sup>th</sup> December 2018

## CONFERENCE TRACKS

### HUMAN COMPUTER INTERACTION (HCI)

- Ubiquitous Computing
- Location-Based Services
- Accessibility
- Sonification
- Design for Aging
- Access to Mobile Interaction
- Personalization
- Assistive Environments
- User Interface Adaptation for Universal Access
- Context-Awareness for Universal Access

### SOFTWARE ENGINEERING

- Software Requirements Engineering
- Software Testing and Quality
- Software Maintenance and Reuse
- Software Design and Construction
- Software Configuration Management
- Software Engineering Management
- Software Engineering Process
- Software Engineering Models and Methods
- Software Engineering Economics

### ARTIFICIAL INTELLIGENCE & ROBOTICS

- Machine Learning
- Natural Language Processing
- Automated Planning and Multi-Agent Planning
- AI in Data Analytics
- Multi-Agent Systems
- Ambient Intelligence
- Reasoning Under Uncertainty

### COMPUTER VISION & PATTERN RECOGNITION

- Object Detection and Recognition
- Human Motion Detection and Analysis
- Video Analysis and Event Recognition
- Face And Gesture Recognition
- Multimedia Indexing and Retrieval
- Industrial and Medical Applications of Pattern Recognition
- Pattern Recognition Principles
- Parallel and Distributed Pattern Recognition

### DATA SCIENCES & KNOWLEDGE SYSTEMS

- Algorithms for Large Datasets
- Big Data and Business Intelligence
- Data Mining and Knowledge Discovery
- Linked Open Data
- Social Network Analysis
- Knowledge Management
- Ontology Engineering and Semantic Web
- Knowledge Science and Engineering
- Methods and Tools for KR
- Decision Support and Recommender Systems
- Information Extraction and Integration

### NETWORKS & COMMUNICATION TECHNOLOGIES

- Network Protocols and Services
- Multimedia Networking and Quality of Service (QoS)
- All-Optical Networks/ Fibre everywhere
- 5G
- Virtualization
- Internet of Things (IoT)

### INVITED SPEAKERS

**Prof. Dr. Amal El Fallah Seghrouchni**

Head, Multi-Agent Systems, University Pierre and Marie Curie, France

**Prof. Dr. Kim G. Larsen**

Director of the ICT-competence center CBS, Aalborg University, Denmark

**Prof. Dr. C. M. Jonker**

Interactive Intelligence Group, Fac. EEMCS, TU Delft, The Netherlands

**Prof. Dr. Alessandro Ricci**

Associate Professor, Università di Bologna, Italy

**Prof. Dr. Néstor Cataño**

Associate Professor, Innopolis University, Russian Federation

**Dr. Samiha Ayed**

Institut Mines - Telecom, France

### ORGANIZING COMMITTEE

#### General Chairs

Dr. Muhammad Atif (UOL)  
Dr. Muhammad Adnan Hashmi (UOL)

#### Technical Committee Chair

Prof. Dr. Amjad Hussain  
Director, FAST-NU, Lahore Campus

#### Conference Secretary

Dr. Yasir Niaz (UOL)

#### Finance Chair

Dr. Arshad Ali (UOL)

#### Publication & Indexing Chair

Dr. Tufail Muhammad (UOL)

#### Local Arrangements Co-Chairs

Dr. Toqir Ahmad Rana (UOL)  
Mr. Rehan Ahmad (UOL)

#### Publicity and Registration Co-Chairs

Dr. Mehtab Afzal (UOL)  
Mr. Imran Shafi (UOL)

### TECHNICAL CO-CHAIRS

#### Artificial Intelligence & Robotics

Dr. Waqar ul-Qounain Jaffry (PUCIT)  
Dr. Sibti-ul-Hussain (NUCES, Islamabad)

#### Data Sciences & Knowledge Systems

Dr. Saeed Ul Hassan (ITU)  
Dr. Ramzan Talib (GCU Faisalabad)

#### Human Computer Interaction (HCI)

Dr. Ibrar Hussain (UOL)  
Dr. Muhammad Asif (NTU Faisalabad)

#### Computer Vision & Pattern Recognition

Dr. Mohsen Ali (ITU)  
Dr. Mudasser Naseer (UOL)

#### Networks & Communication Technologies

Dr. Ejaz Khan (UOL)  
Dr. Abbas Khalid (UOL)

#### Software Engineering

Dr. Ijaz Ahmed (HCT UAE)  
Dr. Ghulam Rasool (COMSATS Lahore)

### TECHNICAL ADVISORY BOARD

Mr. Awais Raoof (Chairman, Board of Governors, UOL)

Prof. Dr. Mujahid Kamran (Rector, UOL)

Prof. Nasir Mehmood (Pro-Rector Academics)

Prof. Dr. Mahboob Ali (Dean, Faculty of Information Technology)



#### TECHNICAL CO - SPONSORS

