



## ACT 2018-Ohrid, Macedonia

International Conference "Applied Computer Technologies"

21-23 June 2018

University of Information Science and Technology "St. Paul the Apostle" – Ohrid



### CALL FOR PAPERS

The International Conference Applied Computer Technologies (ACT) 2018 is an international event organized by the University of Information Science and Technology "St. Paul the Apostle" - Ohrid, Republic of Macedonia and the Technical University of Varna, Republic of Bulgaria.

On behalf of the organizing committee, we sincerely invite you to participate in the International Conference ACT 2018 from 21<sup>th</sup> to 23<sup>th</sup> June in Ohrid, Republic of Macedonia.

ACT 2018 aims to provide a comprehensive global forum for experts and participants from academia to exchange ideas and present results of ongoing research in the most state-of-the-art areas of computer engineering and technology. Different workshops and invited talks by eminent researchers will be held in line with the main conference.

The official language of the conference will be English. The participants can share their knowledge and ideas to map out the directions for the scientific community, in following main areas:

- Applied Computer Science
- Applied Mathematics
- Biomedical Engineering
- Blockchain Technologies
- Computer Science
- Distributed and Parallel Computing
- Economy, Management and Sustainable Development.
- Electronics
- Information Society and Social Development
- New Media Art, Science and Technology
- Power Systems
- Robotics and mechatronics
- Signal and Image Processing
- Telecommunications

We are herewith inviting you to submit your original, unpublished and high quality research work to ACT-2018 as short papers (4 pages) or full length paper (8-10pages).

The submitted articles will be peer-reviewed. Accepted articles will be published as online conference proceedings with ISBN number.

#### Follow this link for Paper Submission

<https://easychair.org/conferences/?conf=act20180>



#### Venue

University of Information Science and Technology "St. Paul the Apostle" - Ohrid  
Address: Partizanska bb, 6000 Ohrid, R. Macedonia

Web-page: <http://act.uist.edu.mk/>

Email: [act@uist.edu.mk](mailto:act@uist.edu.mk)

### CONFERENCE ORGANIZING COMMITTEE

Assoc. Prof. PhD Eng. Mariana Todorova

Prof. Amita Nandal

Prof. Dijana Capeska Bogatinoska

Prof. Jane Barkeski

Asst. Aleksandar Karadimche

Asst. Eng. Dimitrichka Nikolaeva

Asst. Goran Shibakovski

Asst. Mersiha Ismajloska

PhD Eng. Vencislav Nikolov

Eng. Reneta Parvanova

Mr. Milan Mihajlov

### IMPORTANT DATES

ABSTRACT SUBMISSION: 1 MARCH 2018

ACCEPTANCE NOTIFICATION: 9 APRIL 2018

FULL PAPER SUBMISSION DEADLINE: 25 APRIL 2018

CONFERENCE DATES: 21 - 23 JUNE 2018

**AREAS OF INTEREST FOR THE ACT 2018 CONFERENCE INCLUDE, BUT ARE NOT LIMITED TO:**

**Applied Mathematics**

Applications of Linear Algebra, Geometry (two-dimension, three-dimension, and higher dimension), Number Theory to Computer Science, Distribution Theory, Combinatory Theory Analysis, Optimization Theory, and others.

**Computer Science**

Database Systems, Data Management, Big Data, Internet Technology, Internet of Things, Artificial Intelligence, Cognitive Science, Automated Reasoning and Search, Programming Techniques, Advanced Algorithms, Computations, Simulation and Modeling, Engineering Applications, Blockchain technologies, Distributed consensus, XaaS Architectures and Models, Autonomic, Cognitive and Intent-based Networking and Management, Network Artificial Intelligence, Machine Learning and Reasoning, Fog, Edge and Multi-Access Computing, Performance, QoS/QoE Analysis, Big and Fast Data Management, Smart Home Technologies, Cyber security and Data Privacy, Cyber-Physical-Social Systems, and others.

**Signal and Image Processing**

Signal Processing, Statistical Signal Processing, Biomedical Signal Processing, Image Processing, Audio Processing, Video Processing, Analysis and Applications of Signals, Data Integration - 3D Computer Vision, Human Computer Interaction, Biomedical Signal Analysis, Computer-Aided Diagnosis in Biomedical Applications, Gesture and Motion Recognition, Computer Tomography, Signal Filters, Interference Detection and Estimation, Telecommunication Signal Processing, Signal Reconstruction, Wavelets/ Cervelet and filter banks, VLSI implementation of signal processing systems, Adaptive Filtering Techniques.

**Telecommunications**

Antennas Design - Autonomic computing, Autonomic Communication, Communications in disaster management - Image Processing for Communication Systems, Microwave Communications, Natural Language Processing, Optical Communication Systems, Satellite Communications, Communication Trends, Orthogonal Frequency Division Multiplexing (OFDM), Array Processing, CDN and ICN Control and Architecture. Software Defined Networking, Network Function Virtualization. Measurement, Monitoring and Telemetry, Protocols for Programmable Networks and Software-Defined Infrastructure. Open source and Open standards. 5G Control and Management Architecture, Advanced real-time communications, Network traffic analysis, and others.

**Information Society, Technological and Social Development**

Internet and Politics, Digital Society, Electronic Democracy, Electronic Governance, Open Government, Electronic Diplomacy, Electronic Elections, and others.

**New Media Art, Science and Technology**

Research topics: Digital Media, Computer Graphic, Computer Animation, Virtual Art, Internet Art, Interactive Art, Video Games, Computer Robotics, 3d Printing, and others.

**Power Systems**

Smart Power Systems, Power Electronics and Applications, Power Market Management, Power Systems Optimization, Power Quality Preservation, Power System Reliability, Power Systems Communication, Renewable Energy Systems, Solutions for IoT, Multi-domain, Federated and Hierarchical Orchestration, Electrical components, Machinery, Industry 4.0, and others.

**Electronics**

Semiconductors, Reliability of electronic systems, construction of the electronic systems, Digital electronics, Optoelectronics, Analog and Digital System Design, Sensors and Actuators, and others.

**Biomedical Engineering**

Computational Biological Systems, Bio-Medical & Healthcare Engineering, Bio transportation, Biosensors and Bioelectronics, Biomedical Device Engineering, Biomedical Imaging, Bio signals, Biomedical Signal Processing and Control, Nanomaterials, Nanoparticles, Quantum dots, 3D Printing and others.

**Distributed and Parallel Computing**

High Performance Computing, Ultra-scale parallel architectures, Cloud Computing, Cloud Architectures, Cloud Federation, Grid Computing, Fog Computing, Big Data Applications and Management, Parallel and Distributed Computing for Biological and Medical Applications, and Mobile Computing, and others.

**Robotics and mechatronics**

Autonomous robots, Robot design, IoT and Cloud computing in mechatronics, Robotics and Intelligent systems, Control systems, Embedded systems, Autonomous Vehicle Technologies, Robotics Technologies, Sensors and Sensing Network, Human-Centered Robotics, Medical Robotics, Bionics, Mobile Robots, Applied vision systems, Telepresence and VR, Modeling & Simulation, and others.

**Economy, Management and Sustainable Development**

Green economy, Intelligent Transportation Systems, Renewable energy and sustainable systems, Logistics & Supply Chain Management, Electronic Commerce & Knowledge Management, Business Modeling, Monitoring & Management, Service Delivery and Operations, Recycling technologies, Renewable sources of energy, Resource management, Sustainable Development and Education, Innovative clean technologies, Air pollution control, Clean energy, Economic and Social aspect of Sustainable Development, Ecosystems Management, Environment Energy Policy, Planning & Management.

**Organizing Committee, ACT-2018**

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