



# The International Conference on Computer and Applications ICCA'18



July 25-26, 2018  
Ramada Plaza, Raouche  
Beirut - Lebanon



## Honorary Chairs

H. E. Mr. Abdul Rahim Mrad, Former Minister of Education  
Prof. Fouad Ayoub, President, Lebanese University  
Prof. Mouï'n Hamzê, Secretary General, CNRS - Lebanon

## Conference Chairs

Prof. Amin Haj-Ali (Lebanon)  
Prof. Jihad M. AlJeam (IEEE, IJCS)  
Prof. Ahmad ElRaffi (Lebanon)

## Technical Programs Chairs

Prof. Adnan Harb (BIU)  
Dr. Samih Abdul-Nabi (BIU)  
Prof. Fouad Hajj-Hassan (LU)

## Local Organizing Committee

Dr. Ali Bazzi (Lebanon)  
Dr. Hussein Hijazi (Lebanon)  
Dr. Ismail Sayyad (Lebanon)  
Dr. Milad Ghantous (Lebanon)  
Dr. Mohamad Haj-Hassan (Lebanon)  
Dr. Mohammad Raad (Lebanon)

## Managing Editor

Dr. Nabil Khelifi (Springer)

## Publicity Chairs

Prof. Samir Abou El Seoud  
Prof. Dhyaa Azzawy  
Prof. Hamid Mcheick

## Finance Chair

Eng. Dana Bandoek

## Technical Committee

Prof. Abdel Badi Salem (Egypt)  
Prof. Abdelaziz Bouras (Qatar)  
Prof. Adnan Harb (Lebanon)  
Prof. Adrian Constantin (Austria)  
Prof. Ahmad Muhieddine (Lebanon)  
Dr. Ahmed Farouk (Egypt)  
Prof. Albert Zomaya (Australia)  
Prof. Ali Assi (Lebanon)  
Prof. Ali El-Zaart (Lebanon)  
Dr. Ali Hage-Diab (Lebanon)  
Prof. Ali Haidar (Lebanon)  
Dr. Ali Harmush (Lebanon)  
Prof. Ali M. Jaoua (Qatar)  
Prof. Athanasios Vasilakos (Sweden)  
Prof. Azlinah Mohamed (Malaysia)  
Dr. Bassam Hussein (Lebanon)  
Dr. Borhan Marzougui (UAE)  
Prof. Chadi Assi (Canada)  
Dr. Daouad Daouad (Jordan)  
Prof. Dhyaa Azzawy (Iraq)  
Prof. Ezekiel F. Adebisiy Nigeria  
Dr. Fadi Zaraket (Lebanon)  
Dr. Falah Awwad (UAE)  
Prof. Hamid Mcheick (Canada)  
Prof. Hassan Ali Artail (Lebanon)  
Prof. Hojjat Adeli (USA)  
Dr. J. Subash Bose (KSA)  
Dr. Jalal Akaichi (Tunis)  
Prof. Jianfeng Ma (Japan)  
Dr. Justin Varghese (KSA)  
Dr. Khalid Abualsaud (SIEEE)  
Dr. Maher Assaad (UAE)  
Dr. Majdi Rawashdeh (Jordan)  
Prof. Majida AlAsady (Iraq)  
Dr. Mehdi Ehsanian (Iran)  
Dr. Mohamad EID (IEEE)  
Prof. Mohamed Jemni (Tunis)  
Dr. Mohamed M. Veddes (Tunis)  
Prof. Mohammad Khalil (IEEE)  
Dr. Mohammad S Abou Chahine (Lebanon)  
Dr. Mohammed AbouBakr Elashiri (Egypt)  
Prof. Mohsen Gizani (FIEEE)  
Dr. Mohsin Bilal (KSA)  
Prof. Mudasser F. Wyne (USA)  
Dr. Muhammad Khan (UK)  
Dr. Nabil Sahlil (Oman)  
Dr. Nader Hossain (Canada)  
Dr. Najeh Lakhoua (Tunisia)  
Dr. Naren Jeeva (India)  
Prof. Nima Bari (USA)  
Dr. Noora Fetais (IEEE)  
Prof. Omara Karam (Egypt)  
Prof. Osman Ibrahim (Egypt)  
Prof. Patrick S. P. Wang (USA)  
Prof. Peter Mark Athanas (USA)  
Dr. Rajkumar Ganesan (USA)  
Prof. Sabah Mohammed (Canada)  
Prof. Sadok Benyahia (Tunis)  
Dr. Saleh Al Hazbi (Qatar)  
Dr. Salem Salem (Lebanon)  
Prof. Samir A. Elsaoud (Egypt)  
Dr. Saudia Subash (India)  
Dr. Sugam Sharma (USA)  
Dr. Sumaya Al-Maadeed (IEEE)  
Prof. Taleb Obaid (Iraq)  
Prof. Wald. Koczrodaj (Canada)  
Prof. Wenliang Du (USA)  
Prof. Youcef Baghdadi (Oman)  
Prof. Zakaria Maamr (IEEE CS)  
Dr. Ziad Noun (Lebanon)

## General Information:

The International Conference on Computer and Applications ICCA'18 (Third Edition) is an annual event focusing on state of the art technologies pertaining to digital information, communications and multimedia. It is an opportunity for researchers and practitioners to meet and discuss the recent trends in computer applications. It opens a new horizon for research collaboration locally and internationally.

The two-day program will consist of oral and poster presentations with plenary sessions. All submitted papers will be peer-reviewed. Accepted papers will be published as a collective work in an electronic format and will be indexed in IEEE Xplore.

ICCA'18 is a good opportunity for participants to meet with leading researchers working on cutting edge engineering research projects. The conference represents an exceptional opportunity to find potential collaborators and introduces your University in front of key academic leaders.

The conference is sponsored by SPRINGER-VERLAG, IEEE, and IEEE COMPUTER SOCIETY (Technical Co-sponsorship).

## Topics of Interest (includes but not limited to):

- Connected health
- Bioinformatics
- Information security
- Assistive technology
- Edutainment and serious games
- Education
- Grid computing
- Transportation
- Social computing
- Natural language processing
- Knowledge extraction and reasoning
- Arabic applications
- Image and pattern processing
- Virtual and augmented reality
- Cloud computing
- Haptics
- Information forensics
- Robotics
- networks algorithms
- Web engineering
- Big data analytics
- Ontology
- Constraints satisfaction
- Cryptography, and steganography
- Fuzzy logic
- Soft computing
- Neural networks
- Materials & devices for next generation computing & communications
- Artificial Intelligence
- Biometry
- Embedded systems
- Computer graphics
- Algorithms and optimization
- Internet of things (IoT) and cyber-physical systems
- Smart cities
- Geospatial data analysis
- Computational modeling and simulation
- Machine learning.

## Submission Instructions and Dates:

Paper submission is done through EDAS (<http://edas.info/24063>) management system. Authors who cannot access the EDAS system, can send their submission to [icca@ijcis.info](mailto:icca@ijcis.info). Authors should submit a signed letter stating that they will not submit their paper to other conferences or journals before the final notification of the conference chair.

All instructions about papers submission are available at: <http://b-iu.edu.lb/EngConference/ICCA18/>

**Submission Deadline**  
February 11, 2018

**Author Notification\***  
By March 21, 2018

**Advance Registration**  
OPEN: Should be within 3 Days after acceptance notification

**Camera Ready**  
June 17, 2018

