



Leeds, United Kingdom  
June 5-7, 2019

## 10<sup>th</sup> International Conference Dependable Systems, Services and Technologies (DESSERT'2019)

2019 Theme:  
IoT, Big Data and AI for a Smart  
and Safe Future

<http://dessert.ieee.org.ua>

### Organizers

Leeds Beckett University, Leeds, United Kingdom  
National Aerospace University KhAI, Kharkiv, Ukraine  
IEEE United Kingdom and Ireland Section  
IEEE Ukraine Section

### Scope

The annual DESSERT conference began since 2006 and its primary focus has been on methodologies, techniques and tools for dependability, security and safety assessment and assurance of software and hardware components, computer systems, networks and infrastructures. DESSERT'2019 is responding to current major challenges relating to state-of-the-art information and communication technologies and paradigms such as cloud and fog computing, Internet of things and everything, big data, software defined applications, cyberphysical systems and etc. Relevant areas of interest encompasses regulations, analysis, modeling, development, verification, operation and maintenance of hardware, software and human related components, computer systems, networks and infrastructures for safety-, mission- and business-critical applications.

DESSERT'2019 is addressing the main dependability challenges related to ***the IoT, Big Data and AI for a Smart and Safe Future***. Authors are invited to submit original manuscripts demonstrating recent advances in in all areas relevant to these challenges, including, but not limited to:

- Methodology and trends of dependable and resilient computing
- Methodologies and trends of smart and pervasive computing
- Methodologies and trends in sustainable and green computing and communications
- Safety and security of instrumentation and control systems (I&C) of critical infrastructures
- Dependability, security and resilience of web, Internet-, cloud-, fog- and dew- computing
- Dependability, safety and cyber security of IoT systems for human and industry domains
- Formal methods for development and verification of safety-critical systems
- Assurance case-based techniques for safety and security critical applications
- AI and intelligent systems for safety and security
- Reliability and safety of unmanned vehicles, drones and UAV fleets
- Big data and data mining techniques for business and critical domains

## Submission Guidelines, Publication and Indexing

Abstracts and papers are submitted via EasyChair to the relevant DESSERT'2019 Track: <https://easychair.org/conferences/?conf=dessert2019>. Your paper must:

- comply with the IEEE format guidelines <https://www.ieee.org/conferences/publishing/templates.html>.
- respect page limits: short paper (4-5 pages); full paper (6-8 pages).
- be submitted as PDF.

Submitted papers must be novel work and not published elsewhere. All papers will be peer-reviewed by at least three independent reviewers, assessed for relevance to the conference topics, technical soundness, innovation, scientific and presentation quality. Accepted papers must be presented at the conference by one co-author.

Accepted papers will be published in the Conference Proceedings available in the IEEE Xplore and indexed by Scopus. Authors of selected papers will be invited to publish extended versions of their work in international journals indexed by Web of Science and Scopus. A list of the journals will be specified.

## Important Dates

Paper submission: February 15, 2019

Notification of paper acceptance: March 11, 2019

Final manuscript: March 21, 2019

Registration and payment: March 31, 2019

Program draft publication: April 15, 2019

Conference date: June 5-7, 2019

## Organizers

### Honorary Chair:

Prof. Rajkumar Buyya, University of Melbourne, Australia

### General Chairs:

Prof. Dr.Sc. Vyacheslav Kharchenko, National Aerospace University "KhAI", Kharkiv, Ukraine

Prof. Colin Pattinson, Leeds Beckett University, Leeds, UK

### Program Committee Chairs:

Prof. Hissam Tawfik, Leeds Beckett University, Leeds, UK

Dr.Sc. Anatoliy Gorbenko, Leeds Beckett University, Leeds, UK

### Organizing Chair:

Dr. Ah-Lian Kor, Leeds Beckett University, Leeds, UK

### Steering Committee:

- Dr. Olexandr Siora, RPC Radiy, Kropyvnytskyi, Ukraine
- Dr. Olexandr Gordieiev, Banking University, Kyiv, Ukraine
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- Prof. Eric Rondeau, Université de Lorraine, France
- Prof. Juri Vain, Tallinn University of Technology, Estonia

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