

**The 10th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2019)**

CONFERENCE REPORT

The 10<sup>th</sup> edition of the Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2019; <https://www.idaacs.net/2019> ) was held in Metz, France, on September 18-21, 2019.

IDAACS 2019 was organized by Research Institute for Intelligent Computer Systems, Ternopil National Economic University and V.M. Glushkov Institute of Cybernetics, National Academy for Sciences of Ukraine, Ukraine, ENIM (Ecole Nationale d'Ingénieur de Metz) and LCOMS (Laboratory of Conception, Optimisation and Modelling of Systems), University of Lorraine, France.

The IDAACS 2019 consisted of the following topics and special streams and workshop.

1. Advanced Instrumentation and Data Acquisition Systems
2. Advanced Mathematical Methods for Data Acquisition and Computing Systems
3. Big Data
4. Bio-Informatics
5. Computer Systems for Healthcare and Medicine
6. Computational Intelligence for Instrumentation and Data Acquisition Systems
7. Data Analysis and Modeling
8. Embedded Systems
9. High Performance Computing
10. Information Computing Systems for Education and Commercial Applications
11. Intelligent Distributed Systems and Remote Control
12. Intelligent Information Systems, Data Mining and Ontology
13. Intelligent Testing and Diagnostics of Computing Systems
14. Internet of Things
15. Pattern Recognition, Digital Image and Signal Processing
16. Software Tools and Environments
17. Virtual Instrumentation Systems
18. Special Stream in Advanced Information Technologies in Environmental Sciences
19. Special Stream in Cyber Security
20. Special Stream in Human-Machine Interaction (in Education)
21. Special Stream in Intelligent Instrumentation and Data Acquisition Systems in Advanced Manufacturing for Industry 4.
22. Special Stream in Intelligent Robotics and Sensors
23. Special Stream in Machine Learning
24. Special Stream in Project Management
25. Special Stream in Quantum Computing and Post-Quantum Cryptography
26. Special Stream in Smart Buildings and Smart Cities
27. Special Stream in Smart Meters
28. Special Stream in Wireless Systems
29. Workshop Cyber Physical Systems and Internet of Things Dependability

IDAACS 2019 Conference was co-chaired by Prof. Anatoliy Sachenko and Kondo H. Adjallah, while Dr. Volodymyr Kochan acted as the Chair of the Organizing Committee.

Technical co-sponsors of the IDAACS 2019 conference included: IEEE Ukraine Section I&M / CI Joint Societies Chapter; Research Institute for Intelligent Computer Systems; Ternopil National Economic University; ENIM (Ecole Nationale d'Ingénieur de Metz); LCOMS (Laboratory of Conception, Optimization and Modelling of Systems); University of Lorraine; IEEE Ukraine Section; IEEE France Section; MDPI Sensors; River Publishers.

English was the exclusive conference language. The IDAACS 2019 collected 314 submissions. The 213 papers articles were accepted, so the conference acceptance rate was 67%. Authors of accepted papers represented 42 countries.

Conference materials were initially published on USB pen drives (as Preprints) and distributed among conference participants. The conference papers have been indexed in the IEEE Digital Library (IEEE Catalog number: CFP19803-USB; ISBN 978-1-7281-4068-1; Electronic ISBN:978-1-7281-4069-8; USB ISBN:978-1-7281-4068-1; Print on Demand(PoD) ISBN:978-1-7281-4070-4); furthermore, they will be sent to the Clarivate Web of Science for indexing. Accepted papers of the IDAACS 2019 Conference (in their final version) were posted at the

<https://ieeexplore.ieee.org/xpl/conhome/8908800/proceeding>. Note: presented papers only were published in either form (the IDAACS conference series strictly adheres to the "IEEE No-show Policy").

Respectfully submitted by the IDAACS 2019 Co-Chairs,

Anatoliy Sachenko  
Kondo H. Adjallah