

**The 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2017)**

CONFERENCE REPORT

The 9<sup>th</sup> edition of the Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2017; <https://www.idaacs.net/2017> ) was held in Bucharest, Romania, on September 21-23, 2017.

IDAACS 2017 was organized by the Research Institute for Intelligent Computer Systems, Ternopil National Economic University and V.M. Glushkov Institute of Cybernetics, National Academy for Sciences of Ukraine, Ukraine, Faculty of Automatic Control and Computer Science, University "Politehnica" of Bucharest, Romania.

As in the past year, IDAACS 2017 consisted of the following topics and special streams.

1. Special Stream in Advanced Information Technologies in Environmental Sciences
2. Special Stream in Cyber Security
3. Special Stream in eLearning Management
4. Special Stream in Computer Systems for Healthcare and Medicine
5. Special Stream in Intelligent Robotics and Cognitive Systems
6. Special Stream in Project Management
7. Special Stream in Wireless Systems
8. Advanced Instrumentation and Data Acquisition Systems
9. Advanced Mathematical Methods for Data Acquisition and Computing Systems
10. Artificial Intelligence and Neural Networks for Advanced Data Acquisition and Computing Systems
11. Bio-Informatics
12. Data Analysis and Modeling
13. Embedded Systems
14. Information Computing Systems for Education and Commercial Applications
15. Intelligent Distributed Systems and Remote Control
16. Intelligent Information Systems, Data Mining and Ontology
17. Intelligent Testing and Diagnostics of Computing Systems
18. Internet of Things
19. Pattern Recognition and Digital Image and Signal Processing
20. Software Tools and Environments
21. Virtual Instrumentation Systems
22. Special Stream in Smart Buildings and Smart Cities
23. Special Stream in High Performance Computing
24. Big Data
25. Workshop on Cyber Physical Systems and Internet of Things Dependability
26. Advanced Topics in Process Control: Theoretical and Industrial Developments

IDAACS 2017 was co-chaired by Prof. Anatoly Sachenko and Grigore Stamatescu, while Dr. Volodymyr Kochan acted as the Chair of the Organizing Committee.

Technical co-sponsors of the IDAACS 2017 conference included: IEEE Ukraine Section I&M / CI Joint Societies Chapter; Ternopil National Economic University; Faculty of Automatic Control and Computers, University "Politehnica" of Bucharest (UPB); River Publishers; Asti Automation; IEEE Romania Section; Romanian Society of Automation and Technical Informatics (SRAIT); TÜV AUSTRIA ROMANIA; Festo.

English was the exclusive conference language. In 2017, the IDAACS conference attracted 348 submissions. Out of submitted contributions, after obtaining at least two reviews for each paper, the 213 articles were accepted as regular full papers (acceptance rate of 61%). Accepted contributions represent 35 countries.

Conference materials were initially published on USB pen drives (as Preprints) and distributed to conference participants. After the conference, full and short papers have been indexed in the IEEE Digital Library (IEEE Catalog number: CFP17803-USB; ISBN 978-1-5386-0696-4; Electronic ISBN:978-1-5386-0697-1; CD:978-1-5386-0694-0; Print on Demand(PoD) ISBN:978-1-5386-0698-8); furthermore, they were sent to the Clarivate Web of Science for indexing. Papers of the IDAACS 2017 Conference (in their final version) were posted at the <https://ieeexplore.ieee.org/xpl/conhome/8086093/proceeding>. It should be stressed that only papers presented in the conference were published in either form (the IDAACS conference series strictly adheres to the "IEEE No-show Policy").

Respectfully submitted by the IDAACS 2017 Co-Chairs,

Anatoliy Sachenko  
Grigore Stamatescu