

The 11th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2021)

CONFERENCE REPORT

The 11th edition of the Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2021; <https://www.idaacs.net/2021>) was held in Cracov, Poland, on September 22-25, 2021. Unfortunately, due to the COVID-19 pandemic, it had to be transformed into an online conference.

IDAACS 2021 was organized by Department for Information Computer Systems and Control, West Ukrainian National University and V.M. Glushkov Institute of Cybernetics, National Academy for Sciences of Ukraine, Ukraine, Faculty of Electrical and Computer Engineering, Cracow University of Technology, Cracow, Poland.

As in the past year, IDAACS 2021 consisted of the following topics and special streams.

1. Advanced Information Technologies in Environmental Sciences
2. Advanced Instrumentation and Data Acquisition Systems
3. Advanced Mathematical Methods for Data Acquisition and Computing Systems
4. Bio-Informatics
5. Computational Intelligence for Instrumentation and Data Acquisition Systems
6. Computer Systems for Healthcare and Medicine
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 Instrumentation and Data Acquisition Systems in Advanced Manufacturing for Industry 4.0
14. Internet of Things
15. Pattern Recognition, Digital Image and Signal Processing
16. Virtual Instrumentation Systems
17. Special Stream in 5G Networks Technologies and Security
18. Special Stream in Advanced Automatic Control and Information Technology
19. Special Stream in Big Data
20. Special Stream in Cyber Security
21. Special Stream in Design and Testing of Advanced Computer Systems
22. Special Stream in Human-Computer Interaction
23. Special Stream in Intelligent Robotics and Sensors
24. Special Stream in Intelligent Software Systems and Tools
25. Special Stream in Machine Learning
26. Special Stream in Project Management
27. Special Stream in Quantum Computing
28. Special Stream in Smart Buildings and Smart Cities
29. Special Stream in Wireless Systems
30. 4th Workshop on Cyber Physical Systems and IoT Dependability and Resilience (CyberIoT 2021)

IDAACS 2021 was co-chaired by Prof. Anatoly Sachenko, Zbigniew Kokosiński, Volodymyr Samotyy, while Dr. Volodymyr Kochan acted as the Chair of the Organizing Committee.

Technical co-sponsors of the IDAACS 2021 conference included: IEEE Ukraine Section I&M / CI Joint Societies Chapter; Research Institute for Intelligent Computer Systems; West Ukrainian National University; Faculty of Electrical and Computer Engineering; Cracow University of Technology; IEEE Ukraine Section; IEEE Poland Section; MDPI Sensors; River Publishers; Producer of a full range of wireless, low power IoT sensors working with any cloud platform; Dortmund University of Applied Sciences and Arts.

English was the exclusive conference language. In 2021, the IDAACS conference attracted 295 submissions. Out of submitted contributions, after obtaining at least two reviews for each paper, 217 articles were accepted as regular full papers (acceptance rate of 73%). Accepted contributions represent 42 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: CFP21803-USB; ISBN 978-1-6654-4210-7; Electronic ISBN:978-1-6654-2605-3; Print ISBN:978-1-6654-4209-1; USB ISBN:978-1-6654-4210-7; Print on Demand(PoD) ISBN:978-1-6654-2606-0; Electronic ISSN: 2770-4254; Print on Demand(PoD) ISSN: 2770-4262); furthermore, they will be sent to the Clarivate Web of Science for indexing. Papers of the IDAACS 2021 Conference (in their final version) were posted at the <https://ieeexplore.ieee.org/xpl/conhome/9660827/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 2021 Co-Chairs,

Anatoliy Sachenko
Zbigniew Kokosiński
Volodymyr Samotyy