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## CONTACTS

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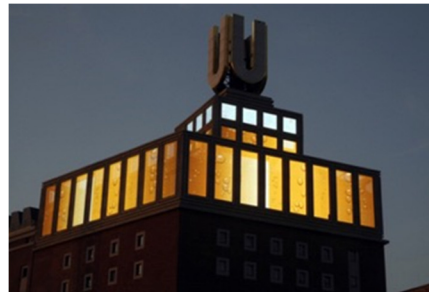
### IMPORTANT DATES

Extended Abstract submission: **19 Mar 2023**

Notification Acceptance: **02 May 2023**

Camera Ready Papers: **15 July 2023**

Early Registration: **until 15 Aug 2023**



## TENTATIVE CALL FOR PAPERS



# IDAACS'2023

The 12<sup>th</sup> IEEE International Conference on  
**Intelligent Data Acquisition  
and Advanced Computing Systems:  
Technology and Applications**

**September 7-9, 2023**  
**Dortmund, Germany**

Organized by

Research Institute for Intelligent Computer Systems,  
West Ukrainian National University and  
V.M. Glushkov Institute of Cybernetics,  
National Academy of Sciences of Ukraine

in cooperation with

Dortmund University of Applied Sciences and Arts  
(Fachhochschule Dortmund)  
Dortmund, Germany  
[www.idaacs.net/2023](http://www.idaacs.net/2023)

## Proceedings History

The first Workshop IDAACS'2001 was organized in a beautiful resort area Foros, Crimea, Ukraine. It was followed by: IDAACS'2003 in Lviv, Ukraine, IDAACS'2005 in Sofia, Bulgaria, IDAACS'2007 in Dortmund, Germany, IDAACS'2009 in Rende, Italy, IDAACS'2011 in Prague, Czech Republic, IDAACS'2013 in Berlin, Germany, IDAACS'2015 in Warsaw, Poland, IDAACS'2017 in Bucharest, Romania, IDAACS'2019 in Metz, France, IDAACS'2021 in Cracow, Poland. Now, we would like to invite all our friends from the previous IDAACS as well as researchers worldwide to attend the IDAACS'2023 in Dortmund and the Ruhr Valley, Germany and discuss latest findings in Intelligent Data Acquisition and Advanced Computer Systems.

The main goal of the IDAACS is to provide a forum for high quality reports on the state-of-the-art theory, technology and applications of Intelligent Data Acquisition and Advanced Computer Systems as used in measurement, automation, and scientific research, in industry and in business.

The importance of IDAACS is its vision to establish scientific contacts between research teams and scientists from different countries for future joint research collaborations.

## The Expected Benefit

IDAACS provides the opportunity to discuss topics with colleagues from different spheres such as academia, industry, instrumentation and computer manufacturing companies, public and private research institutions and organizations. IDAACS with its truly international character promotes the development of relationships between former Eastern and Western Europe, and with countries from all parts of the globe.

## Conference Language and Publications

The official Conference language is English. No simultaneous translation will be provided. All materials concerning the IDAACS'2023 should be written in English. A number of selected papers will be collected for a publication in international journals indexed by Web of Science, Engineering Index () and Scopus.

## Tentative Streams and Topics

The conference scope includes, but it's not limited to:

1. Advanced Instrumentation and Data Acquisition Systems
2. Advanced Mathematical Methods for Data Acquisition and Computing Systems
3. Computational Intelligence for Instrumentation and Data Acquisition Systems
4. Data Analysis and Modeling
5. Intelligent Information Systems, Data Mining and Ontology
6. Information Computing Systems for Commercial Applications
7. Intelligent Distributed Systems and Remote Control
8. Internet of Things, 5G and Industrial Internet
9. Pattern Recognition, Digital Image and Signal Processing
10. Computer Systems for Healthcare and Medicine
11. Bio-Informatics
12. Special Stream on Big Data
13. Special Stream on Advanced Distributed Data Bases
14. Special Stream on Intelligent Software Systems and Tools
15. Special Stream on Advanced Machine Learning
16. Special Stream on Cyber Security
17. Special Stream on Advanced Systems Engineering
18. Special Stream on Design and Testing of Advanced Computer Systems
19. Special Stream on Human-Computer Interaction
20. Special Stream on Advanced Computer Architectures and Embedded Systems
21. Special Stream on Wireless Systems
22. Special Stream on Advanced Automatic Control and Information Technology
23. Special Stream on Intelligent Robotics and Sensors
24. Special Stream on Hydrogen and Renewable Energy Systems
25. Special Stream on Electrical Mobility and Intelligent Mobility Solutions
26. Special Stream on Smart Buildings and Smart Cities
27. Special Stream on Project Management
28. Special Stream on Digital Education and Engineering Education
29. Special Stream on VR and AR
30. Special Stream on Innovation & Entrepreneurship in Digital Transformation
31. Workshop Cyber Physical Systems and IoT Dependability and Resilience (CyberIoT 2023)
32. Workshop Beyond 5G and 6G Networks Technologies and Security

## Invitation to Sponsoring Program

Organizations interested in presenting their products and ideas are invited to participate as a sponsor in the IDAACS Market, a company and student fare.

## Submission

Prospective authors are invited to submit an extended abstract of 3-4 A4 pages (in English only). The manuscript should define the scope of the paper, emphasize on new advances, theories and/or applications and include an analysis of results and findings. It must be structured such that the program committee will be able to understand the originality and the value of the work.

All information about IDAACS'2023 is available at:

**[www.idaacs.net/2023](http://www.idaacs.net/2023)**

Accepted papers will be published in Conference Proceedings and available in the IEEE Xplore and indexed by Scopus and DBLP. The Conference Proceedings shall be submitted to Web of Science as well (previous IDAACS Proceedings were indexed by Web of Science).

## Dortmund and the Ruhr Valley

The Ruhr Valley has been the industrial heartland of Germany, steel and coal shaped the face of the cities. Dortmund was one of the largest steel production sites, same as Bochum, Herne and Gelsenkirchen, the other partner cities of IDAACS 2023 in the Ruhr Valley. Today, the region has been transformed into a technology and innovation hub with many universities and research institutes. Participants of IDAACS will experience this blend of old, heavy industries and modern, innovative ideas and businesses. The main conference site will be the campus of the Dortmund University of Applied Sciences and Arts (Fachhochschule Dortmund), but thematic sessions and visits to Bochum, Herne and Gelsenkirchen will complement the conference program, organized by the DeepTech network [ruhrvalley.tech](http://ruhrvalley.tech).