

## Conference Co-Chairmen

Anatoliy Sachenko, Ukraine  
Zbigniew Kokosiński, Poland  
Volodymyr Samoty, Poland

## International Programme Committee Co-Chairmen

Theodore Laopoulos, Greece  
Piotr Bilski, Poland



## CORRESPONDENCE

The correspondence should be directed to  
IDAACS Organizing Committee:

IDAACS Organizing Committee  
Research Institute for Intelligent Computer Systems  
West Ukrainian National University  
3 Peremoga Square  
Ternopil 46020 Ukraine  
Phone: +380352-475050 ext.: 12234  
Fax: +380352-475053 (24 hours)  
E-mail: [orgcom@idaacs.net](mailto:orgcom@idaacs.net)

## IMPORTANT DATES

Abstract submission: **05 April 2021**  
Notification of Acceptance: **10 June 2021**  
Camera ready paper: **24 June 2021**  
Early registration: **10 June – 10 July 2021**



## TENTATIVE CALL FOR PAPERS



# IDAACS'2021

The 11<sup>th</sup> IEEE International Conference on  
**Intelligent Data Acquisition  
and Advanced Computing Systems:  
Technology and Applications**

**September 22-25, 2021**

**Cracow, Poland**



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

Faculty of Electrical and Computer Engineering  
Cracow University of Technology  
Cracow, Poland

[www.idaacs.net/2021](http://www.idaacs.net/2021)

## Proceedings History

The first Workshop IDAACS'2001 was organized in a beautiful resort area Foros, Crimea, Ukraine. Then were followed: 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. Now we would like to invite all our friends from the previous IDAACS as well as other researchers worldwide to attend the IDAACS'2021 in Cracow, Poland and discuss latest achievements 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'2021 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 (Compendex) 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. 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
  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

## Invitation to Sponsoring Program

Organizations interested in presenting their products are invited to participate in the Sponsor Program and to take part in the Technical exhibition. The exhibition area assigned during the IDAACS'2019 will be offered free of charge for sponsors only.

## Accompanying Persons Program

A social and tour program will be organized.

## 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 concerning IDAACS'2021 will be available soon at:

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

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).

## The Royal City of Cracow

Cracow (Kraków) is an old capital of Poland located in Malopolska region (south of Poland) on the banks of Vistula River. The city is a mosaic of tradition and modernity, full of architectural monuments with Wawel Royal Castle and the biggest medieval Market Square in Europe, art museums, churches, the Jagiellonian University (1364) - alma mater of Nicolaus Copernicus. It is the city of John Paul II and world famous Divine Mercy Sanctuary. Cracow with its universities and over 100 000 students, hundreds of restaurants, clubs and pubs has marvelous atmosphere of youth. Nearby attractions include Wieliczka Salt Mine, former Jewish district Kazimierz and German Nazi Concentration Camp Auschwitz I and Auschwitz-Birkenau.