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CORRESPONDENCE

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IMPORTANT DATES

Extended Abstract submission: **28 Feb 2027**
Notification of Acceptance: **31 March 2027**
Camera ready paper: **30 April 2027**
Early registration: **02 April – 31 May 2027**
Late Registration from: **01 June 2027**

TENTATIVE CALL FOR PAPERS

IDAQ
Intelligent Data Acquisition and Advanced Computing Systems
WEST
EAST
ACS
IDAACS 2027

IDAACS'2027

The 14th IEEE International Conference on
Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications

September 23 – 26, 2027
ATHENS, GREECE

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

Hellenic Army Academy, Greece
www.idaacs.net/2027

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, IDAACS'2021 in Cracov, Poland and Ternopil, Ukraine, IDAACS'2023 in Dortmund, Germany, IDAACS'2027 in Gliwice, Poland. Now we would like to invite all our friends from the previous IDAACS as well as worldwide researchers to attend the IDAACS'2027 in Athens 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's Language and Publications

The official Conference language is English. No simultaneous translation will be provided. All materials concerning the IDAACS'2027 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 is not limited:

1. AI-driven Instrumentation and Data Acquisition Systems
2. Advanced Mathematical Methods for Data Acquisition and Computing Systems
3. Data Analysis and Modeling
4. AI-driven Ontology
5. Edge-AI Systems for Security and Resilience
6. Intelligent Distributed Systems, Embedded Systems and Remote Control
7. Internet of Things and Industrial Internet
8. Pattern Recognition, Digital Image and Signal Processing
9. Computer Systems for Healthcare and Medicine and Bio-Informatics
10. Hybrid Intelligent Systems
11. Human-Computer Interaction, Virtual and Augmented Reality
12. Intelligent Robotics and Sensors
13. Virtual Instruments for IoT
14. Intelligent Geographic Information Systems
15. Modeling the Intelligent Complex Systems under Uncertainty
16. AI Driving Methods for Monitoring the Critical Infrastructure Facilities
17. Special Stream on Big Data and Data Science
18. Special Stream on Intelligent Software Systems and Tools
19. Special Stream on Advanced Machine Learning
20. Special Stream on Cyber Security and Cryptography
21. Special Stream on Design and Testing of Advanced Computer Systems
22. Special Stream on AI-driven Wireless Systems
23. Special Stream on Advanced Project Management
24. Special Stream on Economics in Era of Digital Transformation
25. Special Stream on Advanced Automatic Control and Information Technology
26. Special Stream on Digital Law and Ethics
27. Workshop Cyber Physical Systems and IoT Dependability and Resilience (CyberIoT 2027)
28. Workshop Beyond 5G and 6G Networks Technologies and Security

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'2027 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 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 the information concerning IDAACS'2027:

www.idaacs.net/2027

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

The City of Athens

Athens is the capital and largest city of Greece, a world-renowned cultural and historical centre situated on the picturesque coast of the Aegean Sea. The heritage of the Classical Era remains evident in the city, represented by ancient monuments and works of art, most notably the Parthenon, considered a key landmark of early Western civilization. Athens is home to two UNESCO World Heritage Sites, the Acropolis of Athens and the medieval Daphni Monastery, as well as many other ancient shrines:

The Parthenon is a grandiose temple that has become the symbol of Athens and Greece.

Plaka, the "Neighbourhood of the Gods", – is the oldest and liveliest area of Athens.

Acropolis Museum – the construction of the New Acropolis Museum was inaugurated in 2009 and has become one of the most visited and important museums in Athens.

The Ancient Agora was the social, political and commercial hub of the city during Ancient Greece.

The National Archaeological Museum is one of the most-visited museums in Greece and Europe.

Panathenaic Stadium was built in 144 AD. In the 19th century, it was dug up and restored. It hosted the first contemporary Olympics in 1896.

Temple of Poseidon – dedicated to Poseidon, the ancient Greek god of the sea – could not have been built in a better spot than Cape Sounion, overlooking the Aegean Sea and guarding the city of Athens from anyone heading to the main port of Piraeus. Delphi was considered the centre of the world.

Lyceum – The Lyceum (Ancient Greek: Λύκειον, romanised: Lykeion) was a temple in Athens dedicated to Apollo Lyceus ("Apollo the wolf-god"). It was best known for the Peripatetic school of philosophy founded there by Aristotle in 334 BC. Aristotle fled Athens in 323 BC, and the university continued to function after his lifetime under a series of leaders until the Roman general Sulla destroyed it during his assault on Athens in 86 BC.