16th INTERNATIONAL BALTIC CONFERENCE ON DIGITAL BUSINESS AND **INTELLIGENT SYSTEMS**

30 June - 3 July 2024 Vilnius, Lithuania



Organised by Organised by Vilnius University, Vilnius Gediminas Technical University, Lithuanian Academy of Sciences, and Lithuanian Computer Society

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Baltic DB&IS 2024

CALL FOR PAPERS

The 16th International Baltic Conference on Digital Business and Intelligent Systems is an international event that focuses on the advances of computer science in digital business and intelligent systems and provides a rich environment for exchange of research findings and ideas among scientists, practitioners, and doctoral students from the Baltic Sea region, Europe, and the rest of the world.

The Doctoral Consortium will be held in line with the main Conference.

This conference is continuing a series of successful biennial Baltic DB&IS conferences that have been held in Trakai (1994, 2018), Tallinn (1996, 2002, 2008, 2014, 2020), Riga (1998, 2004, 2010, 2016, 2022), and Vilnius (2000, 2006, 2012).

CONFERENCE SCOPE

Models, Methods, and Tools for Digital Business:

- Conceptual Modeling, Languages and Design
- **Business and Value Models**
- Business Analysis and Requirements Engineering
- Ontologies for Digital Business
- Business Process Modeling and Improvement for Digital Business
- Models and Methods for Continuously Evolving Enterprise Ecosystems
- Business Process Management, Automation, and Simulation-based Optimization
- Simulation and Digital Twins

Knowledge and Knowledge Technologies for Digital Business and Intelligent Systems:

- Machine Learning
- Information Retrieval
- Knowledge Graphs, Semantic Web, and Semantic Technologies
- Natural Language Processing
- Perception and Cognitive Systems
- Advanced Knowledge Management
- Research Methods in Computer Science and Information Systems Engineering
- Computational Thinking for STEM and Engineering Education

Approaches and IT for Digitalization:

- Strategies and Approaches for Digital Transfor-
- Risk and Security Management and Fraud Detec-
- Uncertainty management
- Agile and DevOps in Digital Transformation
- Measuring and Assessing Digital Transformation
- Digitalization in Domain-specific Business (healthcare, agriculture, smart city, e-governance etc.)

Intelligent Systems for Digital Business:

- Artificial Agents and Human-computer Interaction
- Artificial Intelligence and Machine Vision
- Cybersecurity, Robotics, and Smart Industrial Systems
- Intelligent Platforms and Infrastructures for Digital Business
- Al for Decision Support
- Al Ethics and Responsible Al
- Generative Al applications
- Domain-specific Applications of AI (healthcare, finance, education, smart-city, etc.

Data, Data Science, and Computing for Digital Business and Intelligent Systems:

- Data Storage, Mining, and Analytics
- Big Data, Temporal Data, Geospatial Data
- Data-driven Systems Evolution
- Computational Modeling
- Knowledge-based Computing
- Uncertainty Handling in Computing

Emerging Technologies and Innovation for Digital Business:

- Blockchain and Business Applications
- IoT and Industry Applications
- Quantum Computing and Business
- Augmented and Virtual Reality (AR/VR) for Busi-
- Smart Cities: Integrating IoT and Al for Urban Development
- Sustainability and Green Tech Innovations

Digital Business and Intelligent Systems in Practice:

- Case Studies in Digital Transformation
- Best Practice Reports in Implementing Digital Business and Intelligent Systems
- Digitalization Challenges in Enterprise Ecosystems

SUBMISSIONS

Authors are invited to submit:

- a) full research papers which describe theoretical, methodological or conceptual solutions, empirical studies, or new research positions and approaches (14-16 pages).
- b) short communications (experience reports, project overviews, preliminary research ideas, etc.) (8-10 pages).

PhD students are invited to submit papers (8-10 pages) describing the progress of a doctoral research project.

Full research papers will be published by Springer in the series Communications in Computer and Information Science (CCIS). Extended versions of selected papers will be invited for submission to the following journals indexed by Clarivate Analytics Web of Science and Scopus: Informatica, Computer Science and Information Systems, Baltic Journal of Modern Computing.

Short communications and doctoral papers will be submitted for online publication as CEUR Workshop proceedings. Best selected short papers will be published by Springer CCIS.

For additional information on paper submission, please refer to the conference website.

IMPORTANT DATES

March 8, 2024 March 21, 2024 Paper submission deadline (extended) April 14, 2024 Doctoral Consortium submission deadline (extended)

April 25, 2024 Author notification

May 1, 2024 Camera-ready paper submission deadline for conference proceedings

June 30 - July 3, 2024 Conference June 30, 2024 Doctoral consortium