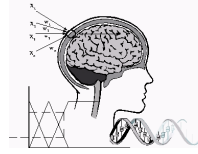




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Intelligent Management Information Systems (IMIS)

Name, Title and Affiliation of Chair:

Marcin Hernes, associate professor, Wroclaw University of Economics and Business, Center for Intelligent Management Systems

Artur Rot, assistant professor, Wroclaw University of Economics and Business, Center for Intelligent Management Systems

Details of Session (including aim and scope):

Management information systems, play a vital role in the activities of various types of organizations. These systems allow for the collection and processing of a large amount of information, but also greatly support knowledge management in the organization. In the Industry 4.0 era the system should also be able to understand the significance of phenomena occurring around the organization environment. It is becoming more and more necessary to make decisions based not only on knowledge but also on experience, thus far regarded as purely human domain. The IMIS is devoted to models, methods and approaches addressing developing of intelligent solution for improving functionality of management information systems . We want to offer an opportunity for researchers and practitioners to identify new promising research directions as well as to publish recent advances in this area. The scope of the IMIS includes, but is not limited to the following topics related to management information systems:

- Industry 4.0 solutions,
- Deep learning and cognitive technologies,
- Machine learning,
- Agent-based systems,
- Genetic and evolutionary algorithms,
- Bioinformatics and Bioeconomy,
- Financial systems,
- Cryptocurrencies,
- Intelligent human-computer interfaces,
- Intelligent personalization,
- Intelligent controlling systems,
- Knowledge management,
- Semantic methods,
- Business processes modelling and simulations,
- Intelligent decision supporting,
- Systems' integration,
- Cyber Security Management and blockchain,
- Cloud Computing.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Eunika Mercier-Laurent, Jean Moulin Lyon 3 University, France

Wolfgang Dorner, Technische Hochschule Deggendorf, Germany

Mykola Dyvak, Ternopil National Economic University, Ukraine
Małgorzata Pańkowska, University of Economics in Katowice, Poland
Mieczysław Owoc, Wrocław University of Economics, Poland
Bogdan Franczyk, University of Leipzig, Germany
Jarosław Wątróbski, University of Szczecin, Poland
Kazimierz Perechuda, Wrocław University of Economics, Poland
Jan Stępniewski, Université Paris 13, France
Helena Dudycz, Wrocław University of Economics, Poland
Jerzy Korczak, International University of Logistics and Transport in Wrocław, Poland
Andrzej Bytniewski, Wrocław University of Economics, Poland
Marcin Fojcik, Western Norway University of Applied Sciences, Norway
Monika Eisenhardt, Wrocław University of Economics, Poland
Dorota Jelonek, Czestochowa University of Technology, Poland
Paweł Weichbroth, WSB University in Gdańsk, Poland
Jadwiga Sobieska-Karpińska, The Witelon State University of Applied Sciences in Legnica, Poland

Website URL of Call for Papers (if any):

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Short-form CVs'

Marcin Hernes received the M.S. degree in computer science from Wrocław University of Science and Technology, Poland, in 2004, the Ph.D. degree in economics from Wrocław University of Economics and Business, Poland, in 2011, and D.Sc. in management from Wrocław University of Economics and Business, Poland, in 2019. He is an associate professor and director of Center for Intelligent Management Systems at Wrocław University of Economics and Business. His research has been in artificial intelligence, knowledge management, decision support systems, management systems, cognitive architectures. He has authored over 150 peer-reviewed publications in international journals and conferences. He is a member of IEEE, The Polish Artificial Intelligence Society and Scientific Association of Business Informatics. He was awarded the Rector's of Wrocław University of Economics and Business award for scientific achievements, several times. Marcin Hernes is also a practitioner in the scope of management systems, coordination and automation of production processes and multi-agent decision support systems and author of dozen computer applications in industrial companies and public administration entities.

Artur Rot, PhD is an Assistant Professor at Wrocław University of Economics and Business, Head of Information Systems Department. He is academic lecturer, researcher, industry consultant and author. He authored over 110 peer-reviewed publications in international journals and conferences. His research interests are grounded in the realities of the IT industry. His areas of past and current interest cover: cybersecurity, information systems security management, IT risk management, cloud computing, Internet of Things. He has been a chair of several international conferences and has also served in program committees of many conferences. He served also as Member of Management Board of Scientific Association for Business Informatics. For his scientific, teaching and organizational achievements he was awarded the Rector's of Wrocław University of Economics and Business awards many times.