

#### INVITED SESSION SUMMARY

## Title of Session:

# Harnessing AI in Knowledge and Intelligent Systems for Business Innovation

## Name, Title and Affiliation of Chair:

- Prof. Celina Olszak, PhD, Eng., University of Economics in Katowice, Poland (chair)
- Prof. Pawel Kasprowski, Silesian University of Technology, Poland (co-chair)
- Prof. Jan Kozak, University of Economics in Katowice, Poland (co-chair)
- Dr Barbara Probierz, Łukasiewicz Research Network Institute of Innovative Technologies EMAG (**co-chair**)

## Details of Session (including aim and scope):

# Session Description:

Artificial Intelligence (AI) is rapidly transforming the way businesses operate, innovate, and compete in the global marketplace. This invited session aims to explore the advancements in AI-driven knowledge systems and intelligent technologies that empower organizations to achieve sustainable growth and innovation. The session will provide a platform for researchers, practitioners, and thought leaders to present and discuss cutting-edge research, methodologies, and practical applications of AI in the context of business ecosystems.

# Session Objectives:

- ★ To showcase innovative AI technologies that enhance knowledge management and decision-making in businesses;
- ★ To identify and address challenges in implementing Al-driven intelligent systems for real-world business scenarios:
- ★ To foster interdisciplinary collaboration between AI researchers and business experts;
- ★ To inspire new research directions by exploring the intersection of AI, knowledge systems, and business innovation:
- ★ To examine strategies for mitigating bias and ensuring fairness in Al-driven business applications.

## Topics of Interest (but not limited to):

- → Al-based knowledge representation, reasoning, and management in business environments;
- → Intelligent systems for decision support, forecasting, and strategic planning;
- → Machine learning and data-driven insights for innovation and competitive advantage.
- → Al-enhanced collaboration, creativity, and innovation processes;
- → Ethical, legal, and social implications of deploying Al in business contexts;
- → Bias mitigation and fairness assurance in Al-driven business decision-making;
- → Case studies and applications of AI in diverse industries, including finance, healthcare, retail, and manufacturing;
- → The role of explainable AI (XAI) in improving trust and adoption of intelligent systems in businesses;
- Trust and transparency frameworks for Al adoption in business environments;
- → Al for business process optimization, automation, and transformation;
- → Human-Al collaboration in knowledge-intensive industries;
- → Human-centered design principles for developing effective business AI solutions;
- → Generative AI applications for fostering innovation and enhancing business creativity;

- → Generative AI as a tool for enhancing corporate knowledge creation and sharing;
- → Challenges and barriers in deploying AI systems across diverse business sectors.

We encourage authors to submit high-quality, original research papers, and case studies that contribute to advancing knowledge in this critical field. This session provides an excellent opportunity to share insights, network with leading experts, and inspire new ideas in leveraging AI for transformative business innovation.

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

University of Economics in Katowice, Poland

Łukasiewicz Research Network - Institute of Innovative Technologies EMAG, Poland

Silesian University of Technology, Poland

King Abdullah University of Science and Technology, Saudi Arabia

Silesian Centre for Legal Engineering, Technology and Digital Competence Cyber Science, Poland

VSB - Technical University of Ostrava, Czech Republic University of Economics in Bratislava, Slovakia

Kaunas University of Technology, Lithuania

University of Belgrade, Serbia

## Website URL of Call for Papers (if any):

#### Email & Contact Details:

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