



INVITED SESSION SUMMARY

Title of the Session:

Innovation, artificial Intelligence, and advanced intelligent systems in knowledge management and engineering

Name, Title and Affiliation of Chair:

Chair: Ph.D. Dariusz Dudek, Czestochowa University of Technology, Faculty of Management, Department of Management Information Systems

Details of the Session (including aim and scope):

The aim of the session is to explore and discuss the role of Artificial Intelligence (AI), Machine Learning (ML), and advanced information and engineering systems in transforming knowledge management and innovation processes. We will focus on breakthrough solutions that leverage intelligence, innovation, and modern IT technologies to achieve better results in every field.

Our session will concentrate on the application of advanced intelligent systems, including drone technology in the context of logistics, monitoring, and security, and spatial analysis to optimize decisions and resources. We will discuss key trends such as digital transformation, business process automation, and the Industry 5.0 concept. The growing importance of AI, robotics, and sustainable development will be emphasized. We will also focus on modern information technologies in education, analyzing how AI and intelligent systems are revolutionizing knowledge management and the creation of innovative academic environments. New technologies enable the creation of more efficient, ecological, and innovation-oriented models that respond to the challenges of the knowledge-based economy.

We cordially invite academics, practitioners, researchers whose work topics are related to the following research areas:

- Artificial Intelligence (AI) and Machine Learning (ML) in management and engineering processes
- Modern tools and intelligent systems in knowledge and innovation management
- Knowledge management and knowledge repositories for eco-innovations
- Intelligent systems in information security management
- The use of drones and unmanned systems in logistics, monitoring, and security
- Spatial analysis and geoinformation in intelligent systems
- Modern information technologies in education
- Digital transformation, Industry 5.0, and process automation
- Sustainable development and advanced technologies in supply chain management
- Innovative technologies and solutions for building a competitive advantage

Articles describing innovative combinations of management with other applied sciences to introduce innovative solutions will also be welcome. Other institutions and research groups from around the world are welcome to participate.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):**Website URL of Call for Papers (if any):****Email & Contact Details:**

dariusz.dudek@pcz.pl