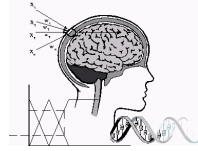




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

"Intelligent Decision Technologies: Ethical Advancements in Industry 4.0 for Navigating AI Algorithms and Responsible Innovation"

Name of Chair:

Prof. dr. Alexandru TUGUI

alexandru.tugui@uaic.ro

altug@uaic.ro

University "Alexandru Ioan Cuza" of Iași, Romania

Details of Session:

In the context of Industry 4.0, the ethical integration of AI algorithms emerges as a foundational pillar for promoting responsible innovation and cultivating trust in automated systems. This session delves into the intersection of ethical principles and cutting-edge technological advancements, spanning diverse domains such as Artificial Intelligence (AI), Big Data Analytics, Robotics, and more. We thoroughly examine the ethical considerations inherent in algorithmic decision-making across various sectors, including healthcare, finance, and urban development. Our primary emphasis revolves around the moral obligations of AI within the decision-making process, addressing critical concerns such as bias, transparency, and accountability. By amalgamating these technologies with ethical guidelines, our overarching goal is to elevate operational efficiency while upholding fundamental human values and societal norms. Topics slated for discussion encompass, but are not restricted to:

- Ethical frameworks tailored for AI and robotics
- The intricacies of bias and fairness in algorithmic decision-making
- Ensuring transparency and accountability in AI systems
- Ethical dimensions of Big Data in the realms of industry and commerce
- Exploring the multifaceted impact of AI on workforce and employment ethics
- Ethical considerations within autonomous systems
- The ever-pressing issues of privacy and data protection in the digital era
- Ethical nuances inherent in the integration of AI within healthcare and medicine
- Encouraging responsible innovation in the context of smart cities
- Navigating the landscape of AI governance and regulatory approaches
- Recognizing the pivotal role of ethics in shaping the trajectory of future technology development
- Tackling the ethical challenges emerging from human-AI interaction
- Cultivating trust and confidence in AI systems
- Assessing the far-reaching societal implications stemming from intelligent technologies
- Adhering to ethical imperatives throughout the design and development of AI solutions.

Important Dates and Deadlines

Submission of Papers: 1 Feb 2024

Notification of Acceptance: 15 Feb 2024

Upload of Publication Files: 1-st of March 2024

Website URL (if any):**Email & Contact Details:**

Prof. dr. Alexandru TUGUI

alexandru.tugui@uaic.ro
altug@uaic.ro

University "Alexandru Ioan Cuza" of Iași, Romania
Faculty of Economy and Business Administration
Business Informatics

16th International KES Conference