

NETWORKS, MARKETS & PEOPLE - NMP2024

THEMATIC SESSIONS - TS

TS-25

HARMONY IN DIVERSITY: MATHEMATICAL FOUNDATIONS OF AI AND ROBOTICS FOR SUSTAINABLE DEVELOPMENT

Keywords: Computational Intelligence, Mathematical Modeling, Sustainable Development, Inclusive Society, Digital Transformation.

This thematic session aims to explore the critical role of mathematical foundations in shaping the trajectory of artificial intelligence (AI) and robotics toward sustainable development.

We invite researchers, mathematicians, and technologists to delve into the intricate relationships between mathematical modeling, AI, and robotics, with a focus on fostering diversity and inclusivity. Topics may include novel mathematical algorithms optimizing energy efficiency, precision in neural networks, and eco-friendly applications in agriculture and natural resource management. We encourage discussions on leveraging mathematical innovations to address societal challenges, promoting cultural diversity, and ensuring the inclusive deployment of AI and robotics technologies.

Join us in unraveling the mathematical intricacies that drive advancements in AI and robotics, forging a path toward a more culturally enriched, inclusive, and environmentally conscious society. This session provides a platform for interdisciplinary dialogue, exploring how mathematical foundations contribute to the harmonious coexistence of technology, diversity, and sustainable development.

CHAIR

Bawar Mohammed Faraj - Computer Science Department, College of Science, University of Halabja, Iraq.

Bawar has a Master Degree in Applied Mathematics at the Harran University, Turkey. Now, he is head of Pedagogy Center, as well as International Ranking Office at the University of Halabja. His main research interest is applied math, pedagogical methods, and Machine Learning.