inAI 2024 ... Innovation and networking in AI, industrial IT, biomedicine and bioinformatics

13:30, November 28, 2024, South Bohemia, Borovany, Czech Republic

IPMAI
AI IN SMES
EXPLAINABLE AI

INAI 2024
EXPLAINABLE

EXPLANIDLY
INNOVATION

13:30: Ivo Bukovský (University of South Bohemia in Ceske Budejovice, Czech Republic)

The Case of Small AI and Move Towards Large AI

The talk directs via the evolution from small AI systems to more complex large AI touching on the core of some principles and practical aspects. It focuses on the challenges of nonstationary environments, incomplete observability, emphasizing the necessity for physics-informed models to enhance explainability and adaptability.

14:15: Noriyasu Homma (Tohoku University, Japan)

AI and Machine Learning in Medical Informatics: Techniques and Applications

The talk explains neural network tools and challenges in medical information systems, e.g., image segmentation, highlights key methods and their impact on healthcare, then draws some connections to how these techniques can be adapted for industrial monitoring and other fields requiring data analysis.

15:00: Shuo-Yan Chou (National Taiwan University of Science and Technology, Taiwan)

Smart Cities and Beyond: AI-Driven Innovations in Urban and Industrial Systems

The talk discusses the role of AI and machine learning in optimizing smart city infrastructure, from energy management to traffic control, explores how these innovations can be transferred to industrial automation and renewable energy solutions, showcasing interdisciplinary use cases that bridge urban and industrial needs.

15:45: Wolfgang Maaß (Saarland University, Germany)

Attention is all You Need for Crisis Predictions

This talk delves into the application of the famous attention mechanisms within AI models to enhance crisis prediction capabilities. By focusing on relevant data features, attention mechanisms improve the accuracy and reliability of predictive models in dynamic and complex scenarios.

16:30-18:00: ... Let's talk about it ...

(Dis)moderated avalanche discussion with the speakers and audience

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University of South Bohemia in České Budějovice

Faculty of Science