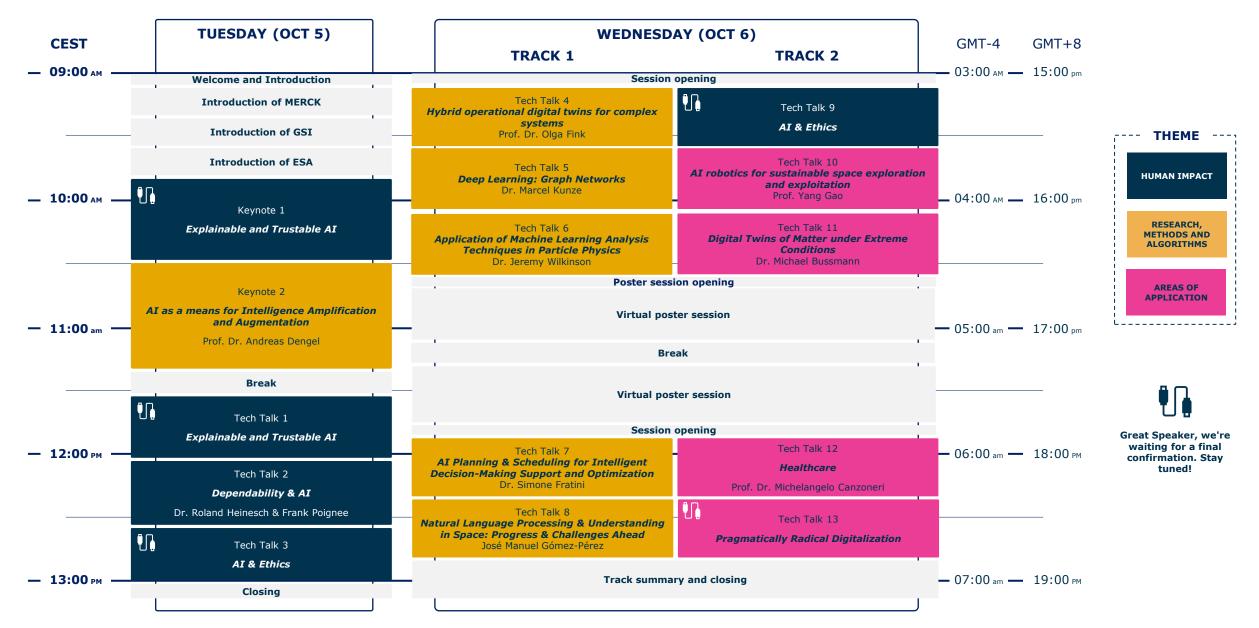
ARTIFICIAL INTELLIGENCE SYMPOSIUM ON THEORY, APPLICATION & RESEARCH

Preliminary Programme



ARTIFICIAL INTELLIGENCE SYMPOSIUM ON THEORY, APPLICATION & RESEARCH

Confirmed Titles and Speakers

HUMAN IMPACT

Dependability & AI

Dr. Roland Heinesch

Customer & Teams Manager, Infoteam software AG

Frank Poignee

Consultant Safety/Chief Engineer, Infoteam software AG

RESEARCH, METHODS AND ALGORITHMS

AI as a means for Intelligence Amplification and Augmentation

Prof. Dr. Prof. h.c. Andreas Dengel

Executive Director, Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI)

Hybrid Modelling

Hybrid operational digital twins for complex systems: integrating deep learning algorithms with structural inductive bias and physics

Prof. Dr. Olga Fink

ChairChair of Intelligent Maintenance Systems, ETH Zürich

Deep Learning

Graph Networks

Dr. Marcel Kunze

Scientist, Heidelberg University Graph Networks

Data Science & Data Analytics

Application of Machine Learning Analysis Techniques in Particle Physics

Dr. Jeremy Wilkinson

Postdoctoral Researcher, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt

Planning and Scheduling

AI Planning and Scheduling for Intelligent Decision-Making Support and Optimization

Dr. Simone Fratini

Senior Research Engineer, Solenix Engineering GmbH

Natural Language Processing

Natural Language Processing and Understanding in Space: Progress and Challenges Ahead

José Manuel Gómez-Pérez

Director, Language Technology Research Expert.ai

AREAS OF APPLICATION

Automation and autonomy

AI robotics for sustainable space exploration and exploitation

Prof. Yang Gao

Professor of Space Autonomous Systems, Head of STAR LAB Surrey Space Centre, University of Surrey, UK

Simulation and Digital Twin

Digital Twins of Matter under Extreme ConditionsDr. Michael Bussmann

Founding Manager Center for Advanced Systems Understanding, Helmholtz-Zentrum Dresden - Rossendorf

Healthcare

Prof. Dr. Michelangelo Canzoneri

Global Head of Digital Data Healthcare business of Merck