INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:
Intelligent Systems and Applied Machine Learning

Name, Title and Affiliation of Chair:
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Details of Session (including aim and scope):
Artificial intelligence (AI) has become a transformative force of the 21st century, reshaping the way people live, work, and interact with technology. With rapid advancements in machine learning (ML) and data-driven analytics, AI systems now power a wide range of applications — from intelligent personal assistants and autonomous vehicles to healthcare diagnostics, legal analytics, and adaptive business systems. As AI continues to evolve, it brings not only technological progress but also new challenges in deployment, scalability, reliability, and ethics.
Intelligent Systems and Applied Machine Learning session aims to provide a multidisciplinary platform for researchers, engineers, and industry professionals to discuss the latest developments, trends, and research outcomes in applied AI and ML systems. The session seeks to bridge the gap between theoretical advances and real-world implementations, highlighting innovative solutions and practical frameworks for designing, deploying, and monitoring intelligent systems.
The scope of the session includes, but is not limited to, the following topics:

- Virtual Assistants and Chatbots
- Autonomous Vehicles and Aircraft
- Healthcare and Medical Imaging Analysis
- Natural Language Processing
- LLM Defense Mechanisms
- Robotic Process Automation
- Data Drift Monitoring in AI Models
- Intelligent UI Targeting
- Federated Learning
- Synthetic Data
- Object Detection and Recognition
- Face and Emotion Recognition
- MLOps System for AI Models Execution and Monitoring
- UI/UX Testing based on machine learning
- Machine Learning Algorithms for social media analysis
- Financial Technologies and Data Analysis
- Text Analysis and Generative Models

- Data Analysis in Biology and Medicine
- Artificial Intelligence in Marketing and Product Management
- Artificial Intelligence in Legal Practice
- Extracting Information from Documents
- Computer Vision

Main Contributing Researchers / Research Centres (tentative, if known at this stage):
https://cs.hse.ru/en/dse/
https://cs.hse.ru/en/aicenter/
https://www.hse.ru/en/ma/datasci/
https://mlops.hse.ru

Website URL of Call for Papers (if any):

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