INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:
Advances in Machine Learning Applications and Systems

Name, Title and Affiliation of Chair:
Dr. Hadi Saleh,
hsalekh@hse.ru
HSE University. Russia
https://www.hse.ru/staff/hadisaleh/
Department of Software Engineering, Moscow, Russian Federation
Co-Chair:
Dr. Sergey Lebedev
HSE University. Russia
https://www.hse.ru/en/staff/LebedevSA
salebedev@hse.ru
Department of Software Engineering, Moscow, Russian Federation

Details of Session (including aim and scope):
Artificial intelligence (AI) has become a transformative force in the 21st century, embedding itself in daily life as it continues to redefine how we interact, communicate, and solve problems. With advancements in machine learning (ML), AI technologies are taking on more complex roles from acting as personal assistants to powering autonomous systems, revolutionizing healthcare, and reshaping industries like finance, law, and marketing. This conference, Advances in Machine Learning Applications and Systems, provides a platform to explore the full spectrum of AI innovations that enhance everyday life, analyze the current state of AI technologies, and examine the strategic frameworks required for implementing and evaluating emerging AI solutions.
As we navigate an era of rapid technological evolution, AI's influence on both routine and professional activities is unprecedented. This conference will gather leading researchers, industry practitioners, and innovators to share insights into how ML is applied across diverse fields, with a focus on its integration into daily applications and long-term impact. Attendees will engage in discussions on best practices, deployment strategies, and the ethical implications of widespread AI adoption.
The conference will feature a series of keynote presentations, technical sessions, and hands-on workshops covering topics such as:

- Virtual Assistants and Chatbots based on machine learning
- Autonomous Vehicles and Aircraft based on machine learning
- Healthcare and Medical Imaging Analysis based on machine learning
- Natural Language Processing based on machine learning
- Object Detection and Recognition based on machine learning
- Face and Emotion Recognition based on machine learning
- 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
- Algorithms for processing large data
- Text Analysis and Generative Models
- Deploying ML Models
- Applied Artificial Intelligence Models
- Data Analysis in Biology and Medicine
- Machine Learning in Bioinformatics
- Artificial Intelligence in Marketing and Product Management
- Artificial Intelligence in Legal Practice
- Email Analyzing and Response Generation Based on Machine Learning;
- Extracting Information from Template-Based Documents
- Object Distance Estimation and Collision Warning
- Optical Flow Estimation based on Deep Learning Approaches
- Social Network Monitoring and User Audience Analysis System

- Investors Consulting based on Machine Learning
- Recyclable Waste Classification based on Machine Learning
- Dataset Generation for Machine Learning Models
- Fingers Gesture Recognition based on Machine Learning

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/

Website URL of Call for Papers (if any):

Email & Contact Details:
Email:
hsalekh@hse.ru
salebedev@hse.ru
https://www.hse.ru/en/staff/hadisaleh#sci
Address: 11 Pokrovsky Bulvar, Pokrovka Complex, office S912, Moscow, Russian Federation, 109028