AIMSA 2024

Conference Program

Day 1: 18.09.2024

	Day 1. 10.07.2024
9:00-9:30	Registration and opening
	Session 1
9:30 – 9:50	Vankov, Georgi; Dimitrov, Dimitar Ilianov; Koychev, Ivan K.; Nakov, Preslav Multimodal Sentiment Analysis: Recognizing Sentiment in Memes
9:50 – 10:10	Li, Yunan; Dhelim, Sahraoui; Chen, Liming; Kechadi, Mohand Tahar Remote Sensing Data for Predicting Crop Growth
10:10 – 10:30	Mihov, Stoyan Cross-lingual Style Transfer TTS for High-quality Machine Dubbing
10:30 - 11:00	Coffee break
	Session 2
11:00 – 11:20	<i>Nisheva-Pavlova, Maria M.</i> An Approach to Discovering, Tracking over Time, and Summarizing Publicly Available Information on a Given Topic
11:20 – 11:40	Markov, Borislav; Koprinkova-Hristova, Petia Reinforcement learning control of Cart Pole system with Spike timing Neural Network Actor-critic architecture
11:40 – 12:00	AbouHassan, Iman Y.; Kasabov, Nikola; Trifonov, Roumen; Popov, George Predictive and Explainable Modelling in Economics on the Case Study of Remittance Prediction Using the NeuDen AI Computational Architecture
12:00 - 13:00	Lunch break
	Plenary session 1
13:00 – 14:00	Plamen Angelov Bringing Deep Learning and Reasoning Closer
14:00 - 14:30	Coffee break
	Session 3
14:30 – 14:50	Santana, Vanessa F.; Georgieva, Petia; Brito, José Deep Learning for Multi-class Diagnosis of Thyroid Disorders using Selective Features
14:50 – 15:10	Al-Khateeb, Aayad; Ragheb, Mostafa; Momcheva, Galina D. ; Kamar, Issa; Hamady, Mohamad
	Medical Ultrasound Image Quality Assessment using Deep Learning
15:10 – 15:30	Marchev, Angel; Lyubchev, Dimitar; Penchev, Nikolay Testing the NEAT Algorithm on a PSPACE-Complete Problem
	Poster session
15:30 – 16:00	Short announcements of all posters (3 min per poster)
16:00 - 18:00	Poster exhibition
19:00 – 22:00	Conference dinner

Day 2: 19.09.2024

Session 4

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9:30 – 9:50	Rieger, Ines Investigating the Regularization of Deep Neural Networks for Affect Recognition with Relevance-Guided Local Explanations
9:50 – 10:10	Akmal, Muhammad Uzair; Asif, Saara; Koval, Leonid; Mathias, Selvine George; Knollmeyer, Simon; Grossmann, Daniel Layered Data-Centric AI to Streamline Data Quality Practices for Enhanced Automation
10:10 - 10:30 10:30 - 11:00	Markov, Konstantin Combining Graph NN and LLM for Improved Text-based Emotion Recognition Coffee break
	Plenary session 2
11:00 – 12:00	Zeng-Guang Hou AI and BCI Based Interaction Control Methods for Robotics
12:00 – 13:00	Giacomo Indiveri Neuromorphic Intelligence: spiking neural network and on-line learning circuits for brain-inspired technologies
13:00 – 14:00	Lunch break
	Session 5
14:00 – 14:20	Grancharova, Alexandra; Xie, Junhong; Kocijan, Jus A Novel Study on Modelling and Adaptive Optimal Control of a Tubular Reactor Based on Gaussian Processes
14:20 – 14:40	Janjani, Pranav; Palan, Mayank Bhavesh; Shirude, Sarvesh Eknath; Shegokar, Ninad S; Kazi, Dr. Faruk Converging Dimensions: Information Extraction and Summarization through Multisource, Multimodal, and Multilingual Fusion
14:40 – 15:00	Tanner, Thomas; Ogul, Hasan; Marfurt, Andreas Enhancing Question Answering in Lecture Videos with a Multimodal Retrieval- Augmented Generation Framework
15:00 – 15:30	Coffee break
	Session 6
15:30 – 15:50	Muraretu, Ionut D; Vultureanu-Albisi, Alexandra; Ilie, Sorin V; Badica, Costin Agent-based simulation leveraging declarative modeling for efficient resource allocation in emergency scenarios
15:50 – 16:10	Anastasiadis, Dimitrios; Refanidis, Ioannis Enhacning Security in Federated Learning: Detection of Synchronized Data Poisoning Attacks
16:10 – 16:30	Miteva, Mariya Clinical and Acquisition Data for Optimizing MGMT Methylation Status Prediction: A Comprehensive Ensemble Strategy Emphasizing Non-Invasive Approaches
16:30 – 17:00	Closing