ScaDS.AI DRESDEN LEIPZIG

12th International Summer School on AI and Big Data
Program Overview

[v07 - May 19]

09:00	Registration	Registration	Registration	Registration	Registration
	Opening	**O Okhrin** Foundations of Neural Networks: Part1	**F Ilievski** Commonsense Reasoning Foundations and State of the Art	**V Derkinderen, G Marra** Deep Parameterized Logics as a Foundation for Neuro-Symbolic AI: Part 1	**A Mileo** *Neuro-Symbolic AI for Human-Centered Explainability* Part 1: Understanding Neurons' Activations via Knowledge Graphs
10:00	**M Valentino** Large Language Models: Capabilities, Limitations and the Way Forward	coffee	coffee	coffee	coffee
11:00	coffee	**P Hitzler** Analysis of Hidden Neuron Activations in Deep Learning Models Using Concept Induction Reasoning	**F Ilievski** Abstraction in AI	**G Marra, V Derkinderen** Deep Parameterized Logics as a Foundation for Neuro-Symbolic AI: Part 2	**A Mileo** Part 2: A Neuro-Symbolic Cycle for Explainability: Challenges and Opportunities.
12:00	**V Belle** The Future Is Neuro-Symbolic:Where Has It Been, and Where Is It Going?	Connecting the Dots	(possibly group picture) Poster Session (voluntary contributions)	Lunch	Lunch
13:00	Lunch	Lunch	Lunch	**M Johansson** Conjecturing in Mathematical Reasoning: From Symbolic to Neuro-Symbolic Methods	Connecting the Dots
14:00	**P Hitzler** LLMs for Knowledge Graph and Ontology Engineering	**O Okhrin** Foundations of Neural Networks: Part2		coffee	**D Stepanova** Towards Unlocking Industrial Potential of Neuro-Symbolic AI at Bosch: Opportunities and Challenges
15:00	coffee	coffee		Connecting the Dots	Closing (with coffee)
16:00	Connecting the Dots	**L Manjunath** Solving Mazes Using LLMs	**M Färber, T Schreieder** Evidence-Based Text Generation with LLMs	**Y Hu, S Razniewski** LLM Knowledge Materialization	**R Haase** Navigating in Latent Space and Retrieval Augmented Generation
17:00	**M Valentino** Unifying Plausible and Formal Reasoning via LLM-Driven Neuro-Symbolic Integration		**free afternoon** (open space at venue + optional social activities will be proposed)		
18:00					
19:00	River Tour via Motorboat			City Tour	
20:00		Social Dinner			
21:00					
22:00					

Legend [duration in min] Short Course [75] | Talk Slot [60] | Hands-On [90] | Connecting the Dots = Q&A session with lecturer panel | Social | Attendee-Driven | Organizer-Driven