ScaDS.AI Summer School

The **9th International Summer School on AI and Big Data** will take place from

July 03. – 07. 2023
in **Dresden**

https://scads.ai/summer-school-2023/

Natural Language Processing

Large AI Models

Computing Architectures for AI

Monday, 03.07.2023

Time	Speaker	Institution	Title of presentation
13:00-13:30	Registration + Opening		
13:30-14:45	Prof. Dr. Wolfgang E. Nagel	ScaDS.AI Dresden/Leipzig	Welcome + Introduction
14:45-15:15	Coffee break		
15:15-16:45	Dr. Peter Uhrig	ScaDS.AI Dresden/Leipzig	Big Data and AI for Multimodal Communication Research
16:45-18:30	Get Together + Poster Session		

Tuesday, 04.07.2023

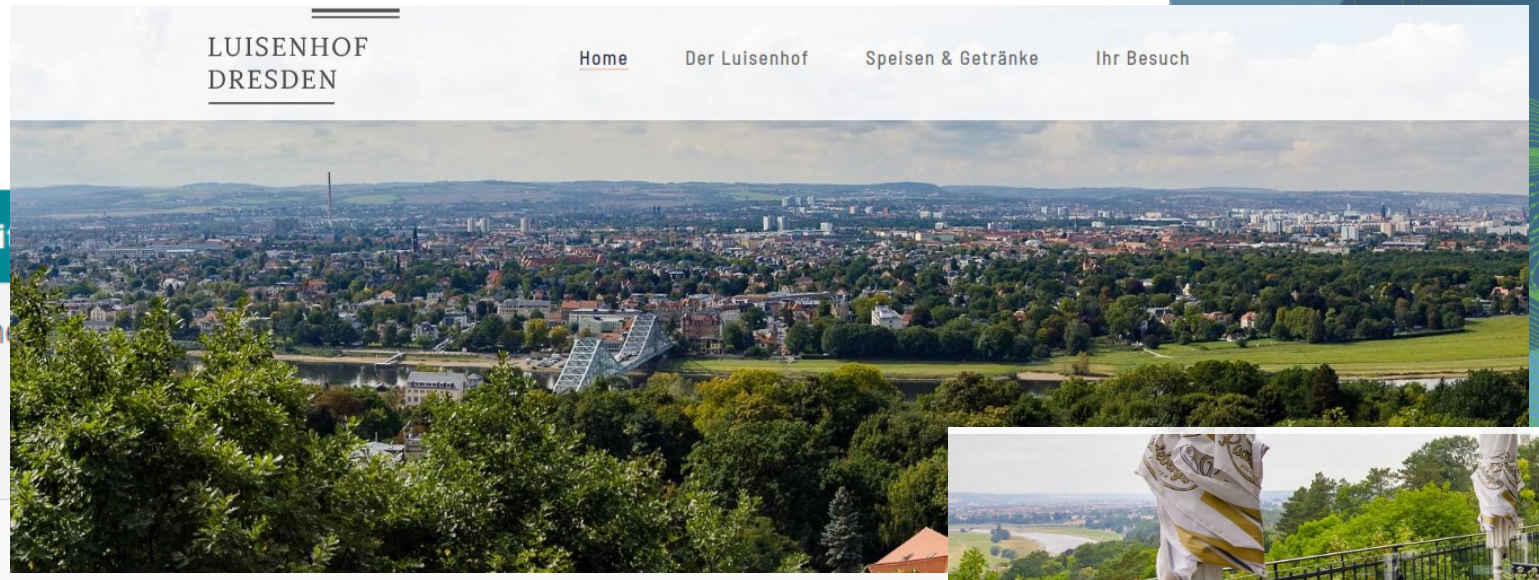
Time	Speaker	Institution	Title of presentation
08:00-09:00	Richard Socher	you.com	Fire Talk: AI and Start Up Scene
09:00-10:30	Prof. Dr. Georg Rehm and Dr. Pedro Ortiz Suarez	DFKI, Germany	Developing Multilingual, Open and European Large Language Models
10:30-11:00	Coffee break		
11:00-12:30	Prof. Dr. Ryszard Kowalczyk	University of South Australia, Australia	Distributed AI and Multi-agent Systems for Space Systems Autonomy
12:30-14:00	Lunch		
14:00-15:00	Dr. Sunna Torge	ScaDS.AI Dresden/Leipzig	NLP for Minor Languages Support
15:00-15:45	Coffee break		
15:45-17:15	Prof. Dr. Diana Göhringer	ScaDS.AI Dresden/Leipzig	Architectures and systems for AI inference

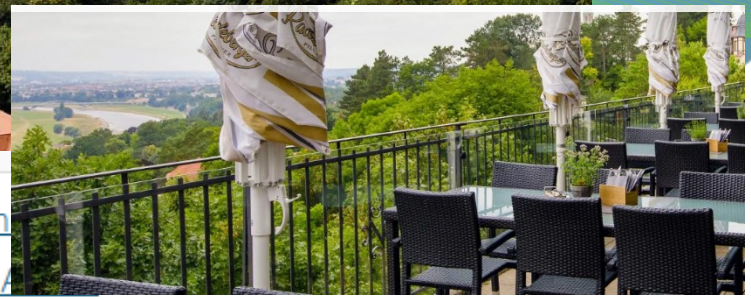
Wednesday, 05.07.2023

Time	Speaker	Institution	Title of presentation
09:00-10:30	Prof. Dr. Immanuel Trummer	Cornell University	Next-Generation Data Management via Large Language Models
10:30-11:00	Break		
11:00-12:00	Dr. Betty Calpas	German Aerospace Center (DLR)	Machine Learning in Aviation – from Traceable Machine Learning to Flows Around Airfoils
12:00-13:30	Lunch		
13:30-14:30	Dr. Lucas Foppa	Fritz Haber Institute, Max-Planck-Gesellschaft, Germany	The "Genes" of Materials Properties and Functions Identified by Symbolic Regression
14:30-21:00	Social Event: Hike through Dresdner Heide followed by a dinner at Louisenhof		

Wednesday, 05.07.2023

Time	Speaker	Insti
09:00-10:30	Prof. Dr. Immanuel Trummer	Corne
10:30-11:00	Break	
		viation – from
		ows Around A
		ls Properties and
		Symbolic Regression
14:30-21:00	Social Event: Hike through Dresdner Heide followed by a dinner at Louisenhof	





Thursday, 06.07.2023

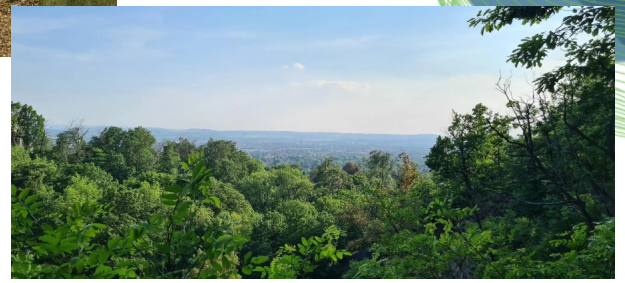
Time	Speaker	Institution	Title of presentation
09:00-10:30	Uwe Gäbler	Infineon	From Cloud to Edge: Applications of AI from the Perspective of a Chipmaker
10:30-11:00	Break		
11:00-12:30	Torsten Enßlin	MPI Garchingen	Information field theory: concepts, astronomical applications, & relation to AI
12:30-14:00	Lunch break		
14:00-15:00	Dr. Gunar Ernis	Fraunhofer IAIS	Bayesian Statistics and Machine Learning
15:00-15:30	Break		
15:30-16:30	Dorina Weichert	Fraunhofer IAIS	Introduction to Gaussian Processes
16:30-17:30	Dr. Gunar Ernis and Dorina Weichert	Fraunhofer IAIS	Experimental Design using Active Learning and Bayesian Optimization

Friday, 07.07.2023

Time	Speaker	Institution	Title of presentation
09:00-10:30	Dr. Sahar Vahdati	InfAI	Fundamentals of Representation Learning
10:30-11:00	Break		
11:00-12:30	Dr. Danh Le Phuoc	BIFOLD, Germany	Knowledge in Perception Systems
12:30-14:00	Lunch Break		
14:00	End		

Wednesday, 05.07.2023

Time	Speaker	Institution	Title of presentation
09:00-10:30	Prof. Dr. Immanuel Trummer	Cornell University	Next-Generation Data Management via Large Language Models
10:30-11:00	Break		
11:00-12:00	Dr. Betty Calpas	German Aerospace Center (DLR)	Machine Learning in Aviation – from Traceable Machine Learning to Flows Around Airfoils
12:00-13:30	Lunch		
13:30-14:30	Dr. Lucas Foppa	Fritz Haber Institute, Max-Planck-Gesellschaft, Germany	The "Genes" of Materials Properties and Functions Identified by Symbolic Regression
14:30-21:00	Social Event: Hike through Dresdner Heide followed by a dinner at Louisenhof		

Hiking tour + Dinner at Luisenhof

- After last talk: coffee break
- Bus starts at around 15:30
  - Drop of location: bus stop Line 520 „Fischhausstraße“
- Hiking tour through „Dresdner Heide“
- Finish directly at Luisenhof at around 17:30-18:00
- Dinner starts @18:30
- Organize your journey back home (no joint bus back to venue)