DeepLayers

WORKSHOP / ARTIFICIAL INTELLIGENCE

11. - 12. 10. 2023

Institute of Scientific Instruments of the Czech Academy of Sciences Kralovopolska 147, Brno, Czech Republic













PROGRAM / Wednesday / 11. 10. 2023 - Tutorials		PROGRAM / Thursday / 12. 10. 2023 - Applications	
09:00 - 09:10	Foreword by DeepLayers 2023 organizers	09:00 - 09:30	Pushing the limits of light microscopy with GANs
09:10 - 09:30	What is the AI (today)		by J. Materna (ML College, CZ)
	by F. Plesinger (ISI of the CAS, CZ)	09:30 - 10:00	Practical implementation AIT in CT and MRI
09:30 - 10:15	Machine-learning Elements I: Data treatment set of apporaches to explore, understand and clean		visualization by P. Ourednicek (FNUSA/Phillips, CZ)
	your data by F. Plesinger (ISI of the CAS, CZ)	10:00 - 10:15	Coffee break
10:15 - 10:30	Coffee break		
		10:15 - 10:45	·
10:30 - 11:45	Machine-learning Elements II: Modelling tutorial by E. Vargova and M. Kolajova (ISI of the CAS, CZ)	10:45 - 11:15	by P. Nejedly (ISI of the CAS, CZ) Can a single ML pipeline detect seizures in
			different datasets?
	Experiments with easy-to-use models		by B. Chybowski (University of Edinburgh, UK)
11:45 - 12:00	How to understand model outputs Al digital Avatar Terminal	11:15 - 11:45	
11.15 12.00	by M. Pachl (aReception, CZ)		by F. Plesinger (ISI of the CAS, CZ)
	27 ···· / 20··· (2//300p.io//)		
12:00 - 13:00	Lunch (provided)	11:45 - 12:45	Lunch (provided)
13:00 - 13:45	Deep-learning (DL) Elements I	12:45 - 13:15	Tracking by 3D Model Estimation of Unknown
	by P. Nejedly (ISI of the CAS, CZ)	12.15 12.45	Objects in Videos by D.Rozumnyi (ETH Zurich, SW)
	Building blocks of DL networks Pate Programme for DL	13:15 - 13:45	
	Data Preprocessing for DL		algorithm by K. Pijackova (ISI of the CAS, CZ)
13:45 - 14:00	Coffee break	13:45 - 14:00	Coffee break
14:00 - 15:00	Deep-learning Elements II	14:00 - 14:30	Keep attention, you will get better results
	by K. Pijackova (ISI of the CAS, CZ)Common DL architectures		by J. Pavlus (ISI of the CAS, CZ)
		14:30 - 15:00	From machine translation to solving all the world's problems by O. Bojar (FMP-CU, CZ)



Deep Layers forum will serve as a place to connect people, share knowledge, compare approaches and see how specific model architectures can help to solve particular tasks. The meeting is organized by a scientific group of Artificial Intelligence and Medical Technologies with the support of the Brno.Al cluster and financial support of Czech Academy of Sciences - Strategie AV21.



Institute of Scientific Instruments of the Czech Academy of Sciences Královopolská 147, 612 64 Brno, Czech Republic