

Machine Learning in Natural Sciences: from Quantum Physics to Nanoscience and Structural Biology

Monday, 19 September 2022

Optimization and Control - Seminarraum 1-3 (09:15 - 10:45)

time	[id] title	presenter
09:15	[47] Turning a physical system into a self-learning machine	Prof. MARQUARDT, Florian
10:00	[30] Depth requirement reduction using sequential execution	PÉREZ SALINAS, Adrián
10:15	[33] Reducing Barren Plateaus in Quantum Algorithm Protocols	BROERS, Lukas
10:30	[27] Characterization of Few-femtosecond Near-infrared Pulses using Machine Learning approach	KOLBASOVA, Daria

Optimization and Control - Seminarraum 1-3 (11:15 - 12:45)

time	[id] title	presenter
11:15	[39] Self-Correcting Quantum Many-Body Control using Reinforcement Learning with Tensor Networks	Dr BUKOV, Marin
12:00	[20] Self-Correcting Quantum Many-Body Control using Reinforcement Learning with Tensor Networks	Ms METZ, Friederike
12:15	[32] Online adaptive estimation of decoherence timescales for a single qubit	ARSHAD, Muhammad Junaid
12:30	[22] Robust quantum dot charge autotuning with Bayesian Neural Networks	YON, Victor