

3rd ICFA Beam Dynamics Mini-Workshop on Machine Learning Applications for Particle Accelerators (Chicago, IL - Palmer House Hilton)

Wednesday, 2 November 2022

Poster Session (cold drinks and snacks) (16:45 - 18:30)

time	[id] title	presenter
16:45	[155] Classification and Prediction of Superconducting Magnet Quenches	CURTIS-EINSTEIN, Joshua
16:47	[128] Beam Loss Disentangling Model Hyperparameter Tuning Methods	JONES, Isaiah
16:49	[129] Graph Embeddings for CEBAF Operations: Progress and Future Plans	TENNANT, Chris
16:51	[130] Emittance Measurement Speedup with Machine Learning at the Coherent electron Cooling Experiment at RHIC	LIN, Weijian
16:53	[131] Machine Learning for Beam Emittance Measurement and Aberration Correction of an Electron Microscope	MA, Desheng
16:55	[132] Enhancing UED temporal resolution with time-stamping virtual diagnostics	CROPP, FREDERICK
16:57	[133] Analysis and Visualisation of Transverse beam properties at the European XFEL	KAMMERING, Raimund
16:59	[134] Muon monitor signal to predict NuMI beam parameters and horn current by applying Machine Learning techniques	WICKREMASINGHE, Don Athula
17:01	[135] Relating Initial Distribution to Beam Loss on the Front End of a Heavy-Ion Linac Using Machine Learning	TRAN, Anthony
17:03	[136] Machine learning-based surrogate model construction for optics matching at the European XFEL	ZHU, Zihan
17:05	[137] An Efficient Classifier-Based Surrogate Assisted Evolutionary Algorithm	PIERCE, Christopher
17:07	[138] Image Segmentation for Automated Sample Alignment in Neutron Scattering Experiments	HENDERSON, M.
17:09	[139] Optimization of dynamic aperture for the Electron-Ion Collider	MARX, Daniel
17:11	[154] BPM measurement prediction based on HOM signals using Machine Learning	DIAZ CRUZ, Jorge
17:13	[141] Updates on the surrogate model design for MUED	SOSA, Salvador
17:15	[142] Prospects for Machine Learning and Pulse Shaping in the Scorpius Accelerator	SCOTT, E.R.
17:17	[143] Exploring and Applying Different Machine Learning Techniques in a Synchrotron	HUANG, Bohong
17:21	[145] Neural Network Surrogate Priors for Efficient Bayesian Optimization	ROUSSEL, Ryan
17:23	[146] Longitudinal Phase Space Manipulation at the LCLS using Neural Networks and Bayesian Optimization	EDELEN, Auralee
17:25	[147] Learning-based Optimisation of Particle Accelerators Under Partial Observability Without Real-World Training	KAISER, Jan

17:27	[148] APPLICATIONS OF MACHINE LEARNING IN PHOTO-CATHODE INJECTORS	ASLAM, Aasma
17:29	[149] Xopt: A Simplified Framework for Optimization of Arbitrary Problems using Advanced Algorithms	ROUSSEL, Ryan
17:31	[150] Fast THz Radiation Optimization for Linear Accelerator using Surrogate Model	XU, Chenran
17:33	[151] Automatic Optimization of X-ray Free-Electron Laser at SACLA	MAESAKA, Hirokazu
17:35	[152] A Smart Alarm for the CEBAF Injector	TENNANT, Chris
17:37	[153] Continuous Anomaly Detection and Labeling for the Fermilab Linac	ST. JOHN, Jason
17:39	[156] Apply Machine Learning in Orbit Control and Accelerator Stabilization	DONG, Zeyu
17:41	[157] Machine Learning to Support the ATLAS Linac Operations at Argonne	MUSTAPHA, Brahim
17:43	[158] Design Optimization and In Situ Surrogate Modeling Activities in the Beam, Plasma & Accelerator Simulation Toolkit (BLAST)	HUEBL, Axel
17:45	[159] Data-Driven Chaos Indicators for Beam Dynamics	RAINER, Robert