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Summary of the 3rd ICFA Beam Dynamics Mini-Workshop on Machine Learning Applications for Particle Accelerators

Thursday, 11 May 2023 16:30 (2 hours)

The 3rd ICFA Beam Dynamics Mini-Workshop on Machine Learning (ML) Applications for Particle Accelerators was held in Chicago, Il, USA, on November 1-4, 2022. This was an in-person workshop focused on ML techniques as applied to accelerator operations, design, and simulations. There were 76 attendees representing 26 institutions from around the world. A total of 59 abstracts were submitted allowing us to build a diverse program with both oral and poster presentations. The workshop was sponsored by the Center for Bright Beams (CBB), with support from the National Science Foundation and by RadiaSoft, an industry leader in high-level research and design and scientific consulting for beamline physics and machine learning. CBB supported eight graduate students for this meeting. The workshop was approved as a mini workshop by the International Committee for Future Accelerators (ICFA) Beam Dynamics Panel. We will provide a summary of the work presented at the workshop and the outlook for future efforts.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

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