Contribution ID: **145**   Type: **20-minute talk**

Experience with Machine Learning Enhanced Modeling and Optimization at SLAC

Wednesday, 26 April 2023 11:20 (20 minutes)

This talk will cover the use cases, experience, and experimental results from using Machine Learning enhanced modeling and tuning methods at SLAC National Accelerator Laboratory and collaborating accelerator facilities. These applications range from intelligent online optimization with minimal prior data to deployment of fast-executing surrogate models to predict complicated beam dynamics behavior online. An emphasis will be placed on practical lessons learned and future needs, with an eye toward control system and computing infrastructure.

Please select if talk will be in person or on zoom

On Zoom

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Session Classification: Plenary Session

Track Classification: AI/ML