

WAO'18: Workshop on Accelerator Operations



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Developing Machine Learning Algorithms for NSLS-II Linac with Operators

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Machine Learning has proven itself as a useful technique in a variety of applications. We have used machine learning techniques to provide an RF feedforward system to the NSLS-II linac to correct for long term drifts in the system. Prior to this, the operator needed to do the correction manually. The operators participated in every aspect of the process from generating the necessary controls, to data collection, and verification. In this paper, we discuss how machine learning was used to correct drifts in the NSLS-II linac and how the operators participated in its development.

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