

Keynote: Systematic Approaches for Accelerator Controls

Wednesday 3 December 2025 09:00 (30 minutes)

Modern accelerator-based user facilities are taking advantage of recent artificial intelligence (AI) boom. Regardless a newly planned facility or an existing one, all should implement a well-suited control system to support advanced tasks with AI technologies. This talk illustrates an architecture design to cover as much possible future application supports at reasonable cost. The talk will first give background introduction for AI and potential issues. A realistic design with possible applications utilizing latest technologies is presented. Additionally, a complete data infrastructure for supporting applications is also shown.

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