

Turbocharge R&D with SDLabs and Bayesian Optimization

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In this talk, Dr. Loïc Roch will present Atinary's AI platform and technology solutions – SDLabs – and will describe how Atinary users can accelerate and improve R&D significantly with an AI and data-driven approach. Scientists and operators can connect to SDLabs in the cloud and can seamlessly integrate lab equipment and off-the-shelf robotic platforms into their workflow after a few hours of onboarding. Thus, companies can deploy AI and machine learning solutions seamlessly today, with no coding or ML expertise needed, starting with simulations or directly in their existing workflows in the wet labs, with or without robots. Atinary's AI solutions allow users to solve complex optimization and discovery challenges that are intractable with the current methods, including multi-objective and multi-parameter optimizations, including with categorical variables, as well as physicochemical descriptors. We also offer algorithms to solve various constrained optimizations.