RISMセミナー第61回
データ駆動型AIセミナー(第15回)

Quantum Machine Learning and Quantum Neural Network

講演者：Le Bin Ho 助教（東北大学）

Quantum machine learning (QML) stands at the intersection of quantum computing and classical machine learning, seeking to harness the power of quantum computing techniques to revolutionize various fields and applications. It promises avenues for solving complex problems, optimizing, and more. This talk introduces QML from fundamental quantum computing to technical details and potential applications across diverse domains.

Unraveling Atomic Ordering in Alloy through Combined Wang-Landau Sampling and Universal Neural Network Potential

講演者：Nguyen Tien Quang 特任助教（信州大学）

For multi-component alloy compounds, the mixing ability of elements as well as the arrangement of atoms play an important role in governing their physicochemical properties. In this talk, we present a combined approach based on Wang-Landau sampling and Universal Neural Network Potential to determine the effect of temperature on atomic arrangement in those materials.