Machine Learning for Materials Hard and Soft
ESI-DCAFM-TACO-VDSP Summer School 2022
11–22 July 2022
ESI, University of Vienna

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Image Analysis

Abstract:
In the theoretical part of the tutorial, I will introduce and discuss various image analysis tools that are commonly used to solve practical problems such image reconstruction, image segmentation and image classification. I will talk about advanced filtering techniques, variational approaches and also learning based methods. In the practical session I will explain how some of the tools from the theoretical part are implemented with Python and more specifically with Pytorch.