FAU MoD Lecture Series



Friedrich-Alexander-Universität **Research Center for** Mathematics of Data | MoD

Martin Burger DESY | UNIVERSITÄT HAMBURG Image Reconstruction – The Dialectic of Modelling and

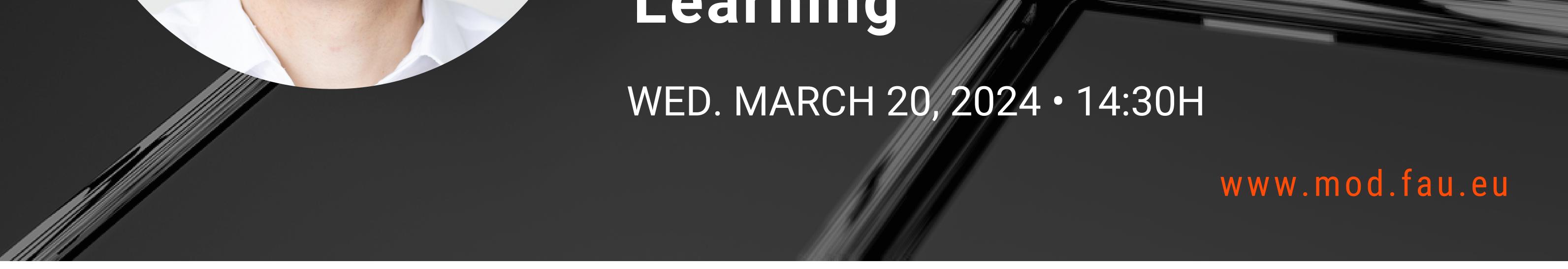


Image Reconstruction – The Dialectic of Modelling and Learning

Speaker: Prof. Dr. Martin Burger DESY | Universität Hamburg

FAU MoD, Research Center for Mathematics of Data at Organizer: FAU, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)

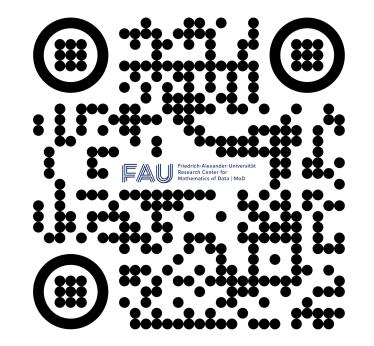
In this talk we will discuss some current and future challenges in highdimensional image reconstruction, which is based on the solution of large-scale inverse problems involving various uncertainties. While classical methods were purely based on physical models for forward operators and regularizations, modern machine learning techniques create the antithesis of data-driven approaches. We will discuss some pitfalls that machine learning can encounter in inverse problems and discuss opportunities for the synthesis of model- and data-driven approaches.



WHEN?

Wednesday March 20, 2024

14:30H



WHERE?

On-site / Online

Room H13 – Johann-Radon-Hörsaal

FAU. Friedrich-Alexander-Universität Erlangen-Nürnberg Felix-Klein building. Department Mathematik Cauerstraße 11, 91058 Erlangen (Germany)

Zoom link: https://shorturl.at/evR04 Meeting ID: 624 1094 3213 | PIN code: 694096

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