Einladung
Würzburger Mathematisches Kolloquium

Julius-Maximilians-Universität Würzburg ● Institut für Mathematik

Frank Werner

Julius-Maximilians-Universität Würzburg - Antrittsvorlesung

Statistical Inverse Problems - Regularization and Inference

Dienstag, 11. Oktober 2022 ● 14:15 Uhr

Seminarraum SE41 ● Forschungsbau (Emil-Fischer-Straße 41, 97074 Würzburg)

Der Vortrag wird auch Zoom-Meeting übertragen: go.uniwue.de/ifmcolloquium-zoom

Abstract. In this talk I will give a basic introduction to inverse problems, highlighting commonalities and differences between deterministic and statistical ones, specific difficulties, and important examples. Two major topics will be covered: regularization (i.e. the construction of suitable estimators from noisy data) and inference (i.e. statistically rigorous statements about properties of the unknown quantity of interest based on noisy data).

For both topics, I will explain a general approach to design and analyze corresponding methods, and I will also discuss ongoing and future reseach questions to be carried out in my working group.

At the end of the talk, I will briefly report on hybrid methods, which combine the advantages of the previously discussed methods.

https://www.mathematik.uni-wuerzburg.de/de/aktuelles/kolloquium

Alle sind herzlich eingeladen.

Die Dozentinnen und Dozenten der Mathematik