Einladung zum Oberseminar Wissenschaftliches Rechnen

Julius-Maximilians-Universität Würzburg
Lehrstuhl für Wissenschaftliches Rechnen IX

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Inverse problems under unknown random noise

We deal with the solution of linear ill-posed equations in Hilbert spaces. Often, one only has a corrupted measurement of the right hand side at hand and the Bakushinskii veto tells us that we are not able to solve the equation, if we do not know the noise level.

But in applications it is usually unrealistic to know ad hoc the error of a measurement. In practice, the error of a measurement may often be estimated through averaging of multiple measurements.

We integrated that in our anlaysis and obtained convergence to the true solution, with the only assumption that the measurements are unbiased, independent and identically distributed according to an elseways arbitrary unknown distribution.

Ort: Zoom Videokonferenz	Zeit: Mittwoch, 26.05.2021, 14:00 Uhr

Zu diesem Vortrag laden wir Sie herzlich ein.
You are cordially invited to this lecture.

gez. Prof. Dr. Alfio Borzì
gez. Prof. Dr. Frank Werner