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Andrea Aspri* (andrea.aspri@ricam.oeaw.ac.at). *A data-driven iteratively regularized Landweber iteration.*

In this talk I will present a data-driven iteratively regularized Landweber iteration for solving linear and nonlinear ill-posed inverse problems. The method takes into account training data, which are used to estimate the interior of a black box, which is used to define the iteration process. I will show convergence and stability results for the scheme in the infinite dimensional Hilbert spaces and then I will discuss some numerical experiments. (Received September 04, 2019)