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**Shuang Li\*** (shuangli@mines.edu), **Gongguo Tang** and **Michael B. Wakin**. *Simultaneous Blind Deconvolution and Phase Retrieval with Tensor Iterative Hard Thresholding*.

Blind deconvolution and phase retrieval are both fundamental problems with a growing interest in signal processing and communications. In this work, we consider the task of simultaneous blind deconvolution and phase retrieval. We show that this non-linear problem can be reformulated as a low-rank tensor recovery problem and propose an algorithm named TIHT-BDPR to recover the unknown parameters. We include a series of numerical simulations to illustrate the effectiveness of our proposed algorithm. (Received September 08, 2019)