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Nghia T. A. Tran (nttran@oakland.edu), **Ming Yan** (myan@msu.edu) and **Trinh Tran*** (thitutrinhtran@oakland.edu), 12880 De Cook Dr, Sterling Heights, MI 48313-3324. *Linear convergence of iterative soft thresholding and solution uniqueness to general Lasso in Hilbert spaces.*

Iterative soft thresholding is a popular and effective method for solving Lasso problem. Local linear convergence of this method was obtained in many works with nontrivial assumptions on initial data. In this talk, we attempt to improve the result. Indeed, we prove the global linear convergence of this method without supposing any expensive condition on the problem. This is a costly result since it helps undermine the conditions in the previous works. The approach also allows us to obtain new characterizations to the uniqueness of optimal solution to Lasso. (Received February 02, 2018)