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A Unified Framework for Sparse Non-Negative Least Squares using Multiplicative Updates and the Non-Negative Matrix Factorization Problem

Igor Fedorov, Alican Nalci, Ritwik Giri, Bhaskar D. Rao, Truong Q. Nguyen, Harinath Garudadri

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**Highlights**

- A general class of rectified sparsity promoting priors is presented
- A class of simple, low-complexity multiplicative update rules is proposed
- A monotonicity guarantee for the proposed multiplicative update rules is provided
- A convergence guarantee for the proposed class of S-NNLS/S-NMF algorithms is given

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