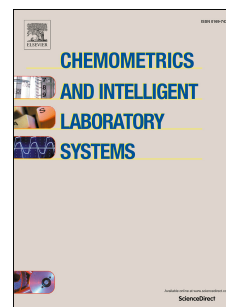


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HYPER-Tools. A Graphical User-friendly Interface for Multivariate and Hyperspectral Image Analysis

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Abstract

HYPER-Tools is a new graphical user-friendly interface (GUI) especially designed for the analysis of multivariate and hyperspectral images. This easy-to-use interface works under Matlab environment and integrates fundamental types of spectral and spatial pre-processing methods as well as the main chemometric tools (exploratory data analysis, clustering, regression, and classification) for multivariate and hyperspectral image analysis. The main feature of HYPER-Tools is the powerful visualization tools implemented and the interaction of the user with the interface, meaning that the user does barely need Matlab skill to use it. Together with the GUI several tutorials and videos are provided in the official website (<https://www.hypertools.org/>) showing the working procedure of HYPER-Tools step by step in different situations.

Keywords: HYPER-Tools; hypertools; hyperspectral image analysis; chemometrics; image analysis; MATLAB

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