

# **Matlab Package “TEPLS” for “Tensor Envelope Partial Least Squares Regression”**

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## **1 Introduction**

“TEPLS” is a collection of MATLAB functions for fitting the tensor partial least squares regression model described in the following paper.

- Zhang, X. and Li, L. (2016+), “Tensor Envelope Partial Least Squares Regression”.

## **2 Prerequisites and dependence**

- tensorreg toolbox (<http://hua-zhou.github.io/softwares/tensorreg/>)
- tensor toolbox (<http://www.sandia.gov/~tgkolda/TensorToolbox/index-2.5.html>)

## **3 Examples**

- “2D\_example.m” contains simulation example of fitting a univariate response on a matrix (2-way tensor) predictor
- “3D\_example.m” contains simulation example of fitting a multivariate response on a 3-way tensor predictor