1. System requirements:

The provided codes have been tested and run on Matlab 2014A on a standard PC running on Windows 8. The libSVM-3.21 toolbox is a pre-requisite for the time-resolved decoding analysis and localization of optimal orientation pattern (see below for further details), which is available for download on: <https://www.csie.ntu.edu.tw/~cjlin/libsvm/>. This toolbox contains multiple functions for training and testing SVM classifiers that could be directed accessed via Matlab. License, terms of use and installation instructions of the libSVM tool box could also be found on the provided website.

1. Installation guide:

The provided codes could be run directly after they have been added to Matlab’s current working directory. No further installation steps are needed.

1. Instructions for use:

Reading and preprocessing of raw MEG data was done using the scripts PreProc.m and PrepData.m. The optimal orientation pattern was localized for each subject using Enc\_Localizer.m. After the localization of the optimal