Implementation of a c++ library for data exchange with MATLAB

Project description:
Scientific programming requires virtuosic skills in order to accommodate requirements like efficiency, parallelism, team work, user-friendliness, exactness, reproducibility, versatility etc.
The goal of this project is to enable interoperability of two modern tools of scientific programming, c++ and MATLAB by providing a set of routines for both languages that make data exchange in form of vectors and sparse matrices easy and reliable, possibly also in the context of distributed computing.
Exploring and assessing existing methods like the c and c++ routines already provided by MATLAB is part of the project.

Prerequisites: Strong c++ and decent MATLAB knowledge
MPI a plus
Independent worker

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