pyMOR: Generic Interfaces for Model Order Reduction
Petar Mlinarić, Max Planck Institute for Dynamics of Complex Technical Systems

pyMOR is a free software library for building model order reduction applications with the Python programming language. Implemented algorithms include reduced basis and system-theoretic methods. All algorithms in pyMOR are formulated in terms of abstract interfaces for seamless integration with external PDE solver packages.

This talk will present pyMOR's fundamental interfaces, starting with vectors, operators, and models, demonstrated with code examples. We will discuss the work towards bridging the two model reduction communities and some open issues to applying system-theoretic methods using external PDE solvers.