

# New developments in substructuring domain decomposition methods

Gabriele Ciaramella  
Politecnico di Milano, Milan, Italy  
gabriele.ciaramella@polimi.it

Tommaso Vanzan  
École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland  
tommaso.vanzan@epfl.ch

## Abstract

Substructuring methods originated long ago in the engineering community with the goal of facilitating the simulation of complex structures. Since then, groundbreaking achievements have been made, so that substructuring methods are nowadays among the most efficient solvers. This minisymposium has the purpose of gathering several experts and sharing the latest developments, including multilevel variants, non-linear extensions, non-standard applications, substructured versions of overlapping domain decomposition methods and state-of-the-art implementations.

Martin Gander  
Université de Genève, Geneva, Switzerland  
martin.gander@unige.ch

Gabriele Ciaramella  
Politecnico di Milano, Italy  
gabriele.ciaramella@polimi.it

Silvia Bertoluzza  
IMATI, Italy  
silvia.bertoluzza@imati.cnr.it

Pratik M. Kumbhar  
Karlsruher Institut für Technologie, Germany  
pratik.kumbhar@kit.edu

Tommaso Vanzan  
École Polytechnique Fédérale de Lausanne  
tommaso.vanzan@epfl.ch

Serge Van Criekingen  
CNRS, France

serge.van.criekingen@idris.fr

Marta D'Elia  
Sandia National Laboratories, USA  
mdelia@sandia.gov