



Professor Dr.-Ing. Michael W. Gee

See:

<http://www.mhpc.mw.tum.de>

<http://65.54.113.26/Author/12970968/michael-w-gee>

Mechanics & High Performance Computing Group
Technical University of Munich, Germany

PhD Thesis:

Gee, M.W. (2004): Efficient solution strategies in nonlinear shell mechanics (pdf 2.8MB) , Institute of Structural Mechanics, report no.43, University of Stuttgart (in German).

Teaching:

Advanced Parallel Computing and Solvers in Engineering (SS 2007/08/09/11)

Finite Elemente (WS 2009/10)

Nichtlineare Finite Elemente (SS 2009, SS 2008)

Technische Mechanik 3 (WS 2009/10)

Technische Mechanik 2 (SS 2009)

Engineering Mechanics 1 (MSE) (WS 2010/11 WS 2011/12)

Continuum Mechanics (MSE) (WS 2011/12)

Engineering Mechanics 2 (MSE) (SS 2011 2012)
Student Research Internships (2011, 2012)

Research Interests, Methods:

Algebraic Multigrid
Fluid-Structure Interaction
Domain Decomposition
Nonconforming Discretization and Mortar Methods
Computational Contact Mechanics
Prestressing in Patient Specific Mechanics
Nodal Strain Finite Elements

Research Interests, Applications:

Vascular Mechanics of the Aorta and the Heart
Bone Remodeling
Computational mechanics of Multifield Problems
Finite Element Technology
High Performance Parallel Computing & Solvers

Professional Societies and Service:

Member of the German Association for Computational Mechanics (GACM)
Member of the Biomedical Engineering Society (BMES)
Member of the ASME Biomedical Engineering Solid Mechanics Committee
Reviewer for IJNME, CMAME, SISC, SINUM, IJNMBE, Applied Numerical Mathematics, J. Biomechanics, J. Biological Physics, Ann. Biomed. Eng., Biomechanics and Mechanobiology, J Endovasc. Therapy, J. Royal Soc. Interface.

Publications: See the website, <http://www.lnm.mw.tum.de/staff/michael-gee/>