

Curriculum Vitae Prof. Dr.-Ing. habil. Manfred Krafczyk

General Information

Name: Krafczyk, Manfred

Date of birth: 24.02.1965

Address: Institut für rechnergestützte Modellierung im Bauingenieurwesen
Institute for Computational Modeling in Civil Engineering
TU Braunschweig, Pockelsstr. 3, 38106 Braunschweig, Germany

Phone: +49 531-391 94500

E-Mail: kraft@irmb.tu-bs.de

web: <http://www.irmb.tu-bs.de>

Position: Full Professor (C4), Head of Institute

Education

1987 – 1991 TU Dortmund, Physics Diploma, Advisor Prof. Dr. Mario Markus,
Max-Planck-Institut für molekulare Physiologie

Degrees

Ph.D. Dr.-Ing. (with honors) „Simulation von Strömungen mit Gittergasmethoden“,
TU Dortmund, 1995, Advisor: Prof. Dr. rer. nat. Ernst Rank

Professorial thesis Bauinformatik, TU München, 2001,
Reviewers: Prof. Dr. rer. nat. Ernst Rank TU München
Prof. Dr.-Ing. Rainer Helmig, U. Stuttgart

Professional Career

1991-1994 Ph.D. scholarship Siemens AG

1995-1997 PostDoc, Chair for Numerical Methods, TU Dortmund

1997-2001 Assistant Prof. (tenure), Chair Bauinformatik, TU München

since 2001 Full Professor and Head of Institute for Computational Modeling in Civil Engineering,
TU Braunschweig

Academic Administrative Activities

since 2002 Speaker of the international Master program *Computational Sciences in Engineering*
(CSE) at TU Braunschweig

2003-2006 Member of Public Relations Committee of Civil Engineering Department

2003-2006 Member of Infrastructure Committee of Civil Engineering Department

2003-2011 Member of Sports Committee of TU Braunschweig

since 2003 Head of four Professorial Appointment Committees and member of thirteen more

2014-2015 Member of Sports Committee of TU Braunschweig

2003-2004 Member of Infrastructure Committee of TU Braunschweig

2004-2006	Member of IT & Communication Committee of TU Braunschweig
2006-2007	Provisional head of Gauss-Computing Center at TU Braunschweig
since 2005	Member of Department Council
since 2006	Head of IT-Committee of department
2006-2012	Organizer of Double-Degree-Master Program between department and University of Rhode Island
2007-2013	Department representative for International Affairs
2007-2009	Speaker of Gauss-Center for Modelling and Simulation at TU Braunschweig
since 2011	Member of tubs.CITY
2009-2013	Member of IT-Commission at TU Braunschweig
since 2013	Member IT-Steering Committee at TU Braunschweig
since 2011	Member of Senat of TU Braunschweig
2011-2013	Member of advisory council for the Language Center of TU Braunschweig
2012-2014	Senator of Niedersächsische Technische Hochschule (NTH)
2012-2013	Member of advisory council for energy awareness at TU Braunschweig
2011-2012	Dean of the department of Architecture, Civil Engineering and Environmental Sciences
2011-2012	member of board of trustees <i>Vereinigte Stiftung der Technischen Universität Carolo-Wilhelmina zu Braunschweig</i>
2012-2014	Vice-Dean of the department of Architecture, Civil Engineering and Environmental Sciences
since 2015	Vice-Speaker DFG-network of TU Braunschweig
since 2016	Vice-Speaker of MUSEN-Center (Mechanics, Uncertainty and Simulation in Engineering) der TU Braunschweig
since 2016	Speaker of HPC-user council of TU Braunschweig

Activities in Teaching & Research

08/1997-11/1997	Guest lecturer at Inst. for Biomechanics (Prof. Dr. Miguel Cerrolaza, Universidad Central de Venezuela, Caracas, Venezuela)
09/1999-11/1999	Guest lecturer at Inst. für Terrestrische Ökologie (Prof.Dr. Hannes Flüher, ETH Zürich)
06/2000-08/2000	Visiting scientist at the Institute for Computer Applications in Science and Engineering (ICASE), NASA Langley, Virginia, USA
since 2001	Reviewer for DFG, EU, BMBF, FFG, WWTF, NSF, PRACE
2008 - 2017	Member of ISAP-reviewer board of DAAD
since 2004	Co-chairman and Scientific Committee member of <i>Int. Conference on Mesoscopic Methods in Engineering and Science</i> (ICMMES) (www.icmmes.org)
2006-2008	Member of Technical Committee <i>Civil Engineering and Surveying</i> at ASIIN (Accreditation agency for Ba and Ma study programs in physical sciences, mathematics and engineering)
2008-2010	Chairman of Technical Committee <i>Civil Engineering and Surveying</i> at ASIIN

since 2011	Ass. Editor <i>Computers & Mathematics with Applications</i>
since 2011	Ass. Editor <i>Computers and Fluids</i>
since 2012	Ass. Editor <i>Mathematical Problems in Engineering</i>
since 2017	Editorial Board Member <i>J. of Applied and Computational Mechanics</i>
since 2017	Editorial Board Member <i>Computation</i>
since 2017	Editorial Board Member <i>Advances in Engineering Software</i>
since 2011	Board member (Fachkollegiat) of DFG-Fachkollegium 410 (Civil Engineering and Architecture)
2011-2017	Member of Standing Committee of <i>Fakultätentag für Bauingenieurwesen, Geodäsie und Umweltingenieurwesen</i> (FTBGU)
since 2013	Vice-Chair working committee <i>Computational Sciences and Engineering (CSE)</i>

In addition, I serve as a reviewer for more than forty national and international scientific journals and funding agencies.

Memberships

since 2008	Braunschweigische Wissenschaftliche Gesellschaft (<i>BWG, Academy of Science Lower Saxony</i>)
since 2009	Windtechnologische Gesellschaft (WtG)
since 2010	Working committee Numerical Methods in Wind engineering (WtG)
since 2012	Gesellschaft für Angewandte Mathematik und Mechanik (GAMM)
since 2002	German Association for Computational Mechanics (GACM)

Publications

> 100 reviewed journal- und book contributions, h-index: 36

siehe: <https://scholar.google.de/citations?user=yPfq77cAAAAJ&hl=de>