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

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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 (Computer Science in (Civil) Engineering), 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

2002-2020	Speaker of the international Master program <i>Computational Sciences in Engineering</i> (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
2005-2017	Member of Department Council
since 2006	Head of departmental IT-Committee
2006-2016	Organizer of Double-Degree-Master Program between department of Civ. Eng. 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
2011-2018	Member of tubs.CITY
2009-2013	Member of IT-Commission at TU Braunschweig
since 2013	Member IT-Steering Committee at TU Braunschweig
2011-2019	Member of Senate 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 Board of Trustees Vereinigte Stiftung der Technischen Universität
	Carolo-Wilhelmina zu Braunschweig
2013-2014	Vice-Dean of the Department of Architecture, Civil Engineering and Environmental Sciences
2015-2019	Vice-Speaker DFG-network of TU Braunschweig
2016-2019	Vice-Speaker of MUSEN-Center (Mechanics, Uncertainty and Simulation in Engineering) at TU Braunschweig (https://www.tu-braunschweig.de/en/musen)
since 2020	Speaker of MUSEN-Center
2016-2020	Speaker of HPC-User Council of TU Braunschweig
since 2020	Vice-President Digital Affairs and Technology Transfer TU Braunschweig
since 2020	Head of Advisory Committee University Library TU Braunschweig
since 2020	Head of IT-Steering Committee TU Braunschweig
since 2020	Member Supervisory Board Energie-Forschungszentrum Niedersachsen (EFZN)
since 2020	Member Steering Committee ForschungRegion Braunschweig
since 2020	Member LHK-Work Group Digital Affairs
	(LHK= State University Conference Lower Saxony)
since 2020	Member LHK-Work Group Third Mission
since 2020	Member Administrative Board Braunschweigischer Hochschulbund
since 2020	Member of Steering Committee NFDI4Ing (https://nfdi4ing.de)
since 2021	Member CIO-Board TU9 (https://www.tu9.de/)
since 2021	Task Force Infrastructures in CESAER (Conference of European Schools for Advanced Engineering Education and Research)
since 2021	Member AG IT-Organisation und Strategy LANIT (Landesarbeitskreis Niedersachsen für Informationstechnik / Computing Centers Lower Saxony)
since 2021	Member of Strategy Board National High-Performance Computing NHR (Gem. Wiss. Kommission des Bundes und der Länder GWK)

since 2020	Board Member Research Airport Braunschweig
since 2020	Board Member Metropolregion
since 2020	Board Member TU9-Council Innovation & Transfer
since 2020	Board Member ForschungRegion Braunschweig
since 4/2022	Board Member EUA Digital Transformation Steering Committee

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 Flühler, 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 (e.g. H2020-FETOPEN 2016-2021), BMBF, FFG, WWTF, NSF, PRACE and other institutions
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) (<u>www.icmmes.org</u>)
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 Civil Engineering and Surveying at ASIIN
since 2011	Ass. Editor Computers & Mathematics with Applications
2011-2021	Ass. Editor Computers and Fluids
2012-2020	Ass. Editor Mathematical Problems in Engineering
since 2017	Editorial Board Member J. of Applied and Computational Mechanics
2017-2020	Editorial Board Member Computation
since 2017	Editorial Board Member Advances in Engineering Software
since 2021	Editorial Board Member ing.grid (https://www.inggrid.org/)
2011-2019	Board member (Fachkollegiat) of DFG-Fachkollegium 410 (National Research Funding Agency, Chapter Civil Engineering and Architecture)
2011-2017	Member of Standing Committee of Fakultätentag für Bauingenieurwesen, Geodäsie und Umweltingenieurwesen (FTBGU)
2013-2021	Vice-Chair National Committee Computational Sciences and Engineering (CSE)

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
	(BWG, Academy of Science Lower Saxony))
since 2009	Windtechnologische Gesellschaft (WtG, Society of Wind Technology)
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 (Google Scholar): 46

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

ORCID: orcid.org/0000-0002-8509-0871

SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=6603418597