

Univ.-Prof. i.R. Dr. Dr. h.c. Michael Oberguggenberger

Coordinates

Affiliation: Unit for Engineering Mathematics
Department of Engineering Science
Innsbruck University
Position: Full Professor, retired since October 2018
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Personal Data

Date of Birth: September 10, 1953
Place of Birth: Innsbruck, AT
Nationality: Austrian

Education

1972 – 1979 Diploma studies in mathematics and physics, Innsbruck University, AT
Mag. rer. nat. 1979
1979 – 1981 Doctoral student at Duke University, North Carolina, US,
Ph.D. Duke University 1981, US
1987 Habilitation in Mathematics, Innsbruck University, AT

Professional Experience

1975 – 1979 Teaching Assistant in Mathematics, Faculty of Civil Engineering, Innsbruck University, AT
1979 – 1981 Tutor and Graduate Assistant in Mathematics, Duke University, US
1981 – 1986 Assistent Professor, Institut für Technische Mathematik, Geometrie und Bauinformatik, Innsbruck University, AT
1987 – 2006 Associate Professor, Institut für Technische Mathematik, Geometrie und Bauinformatik, Innsbruck University, AT
2007 – 2018 Full Professor 'Numerik und Bauinformatik', Unit for Engineering Mathematics, Faculty of Engineering Science, Innsbruck University, AT

Academic management

1995 – 1996 Provisional Head of Department, Department of Project and Construction Management, University of Innsbruck, AT
1999 – 2004 Head of Department, Department of Engineering Mathematics, Geometry and Computer Science, University of Innsbruck, AT

- 2008 – 2012 Vice-Head, Institute of Basic Sciences in Civil Engineering, University of Innsbruck, AT
- 2013 – 2016 Head, Institute of Basic Sciences in Engineering Science, University of Innsbruck, AT
- 2008 – 2016 Chair of the Faculty Council, Department of Engineering Science, University of Innsbruck, AT
- 2004 – 2018 Head, Unit of Engineering Mathematics, University of Innsbruck, AT

Visiting Professorships

- 03/1984 Universität Leipzig, DE
- 08/1987, 08/1988 Université de Bordeaux, FR
- 09-11/1987, 08-10/1990: University of Pretoria, ZA
- 11/1988, 08/1997 University of Novi Sad, SR
- 07-09/1989 Universidade Estadual de Campinas, ES
- 11/1990 – 01/1991, 01/1992, 03/1993, 04/94 École Normale Supérieure de Lyon, FR
- 02/1995, 04/2005, 02/2008 Université des Antilles et de la Guyane, GP
- 03/1996, 02/1997, 02/2000 Institut Galilée, Université de Paris 13, FR
- 10-12/1997 Erwin-Schrödinger-Institut Wien, AT
- 02/1999 Max-Planck-Institut Leipzig, DE
- 07/2005 Kyoto Sangyo University, JP
- 08/2006 Universidade de São Paulo, BR
- 03-06/2007 Universität Wien, AT

Awards

- 2013 Honorary Doctorate of the University of Novi Sad
- 2013 Wissenschaftspreis für außergewöhnliche Forschungsleistung der Stiftung Südtiroler Sparkasse
- 1993 Research Price of the Austrian Mathematical Society
- 1983 Price of the City of Innsbruck for Young Scientists

Activities in Professional Societies

- 2013 – 2021 Board Member of The International Society for Analysis, its Applications and Computation (ISAAC)
- 2014 – 2017 President of the Board of the Austrian Mathematical Society
- 2012 – 2016 President, International Association for Generalized Functions
- 2010 – 2013 Board Member and Chair Special Interest Group on Generalized Functions, The International Society for Analysis, its Applications and Computation
- 2010 – 2013 Vice-President of the Board of the Austrian Mathematical Society

Member of Editorial Board

- Since 1995 Publications Mathématiques (Belgrade, SR)
- Since 2009 Journal of Pseudo-Differential Operators and Applications
- Since 2010 Bulletin Mathématique de la Société des Mathématiciens de la République de Macédoine, Skopje, MK

Since 2014 Novi Sad Journal of Mathematics (Novi Sad, SR)

Research interests

Partial differential equations, generalized functions, stochastic analysis, imprecise probability theory, risk and reliability, operations research, engineering mathematics

Research projects

Since 1995 30 research projects funded by FWF, FFG, ÖNB, TWF and industrial partners

Selected research projects

- 2010 – 2016 DK-CIM (Doctoral School Computational Interdisciplinary Modelling), University of Innsbruck, AT. Project Participant, supported by Austrian Science Fund (FWF)
- 2011 – 2015 MDP-NE (Mechanical Dimensioning Philosophy – Nozzle Extension), Contractor of INTALES, with Astrium GmbH Munich, DE
- 2013 – 2014 ROBUST (Robust optimization strategies for lightweight structures), Subcontractor of INTALES, supported by FFG/Austrian Research Promotion Agency
- 2014 – 2017 FIOSSA (Fourier Integral Operators in Stochastic Structural Analysis), Bridge Project with partner INTALES, supported by FFG/Austrian Research Promotion Agency
- 2016 – 2017 Stochastische Modellkalibrierung - Innovationsscheck plus with partner INTALES, supported by FFG/Austrian Research Promotion Agency
- 2016 – 2018 FGFIO (Stochastic generalized Fourier integral operators), supported by FWF/Austrian Science Fund
- 2018 – 2019 Stress rupture prevention of composite high pressure vessels, Subcontractor of INTALES, funded by European Space Agency (ESA)

Publications

Books: 8.
Co/Editor of Proceedings/Special Issues: 11.
Journal publications: 111.
Conference proceedings publications and book chapters: 72.
Invited and contributed lectures: 226.