

CV of Vladimir M. Veliov

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Research areas: optimal control of ordinary and distributed systems; uncertain systems: identification, estimation, control; dynamic games; operations research and mathematical programming; non-smooth and set-valued analysis; numerical analysis: optimization, optimal control, variational inequalities; mathematical economics; population dynamics and mathematical epidemiology

Education: MSc in operations research at University of Sofia (1978), PhD in optimal control theory, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences (1982)

Current position: Full Professor, Vienna University of Technology (since 2008)
Head of Institute of Statistics and Mathematical Methods in Economics
Head of Research Unit “Operations Research and Control Systems”

Previous positions

2000-2008: research assistant and senior research assistant at TU Wien
1993-2000: visiting professor at TU Wien (94), Universite de Bretagne Occidentale, France (97, 98, 99, 00), University of Bayreuth, Germany (93, 96);
research associate at Oakland University and University of Florida, USA (1998);
lecturer at University of Vienna (95, 96) and TU Wien (95, 96, 97, 99)
1988-1993: Research Scholar and Acting Project Leader at the International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria
1982-1987: Assistant Professor at the Institute of Mathematics and Informatics, Bulgarian Academy of Sciences

Funded projects: 6 Austrian (FWF and FFG) and EU projects in the past 5 years, substantial participation in over 15 other projects in Austria, Bulgaria, France, and USA.

- Some recent projects:
- (i) FWF Project P 31400-N32 “Optimal control with finite control set and applications in Model Predictive Control” (2018-2021, leader)
 - (ii) FWF Project P 26640-N25 “Regularity, stability and computation of equilibria” (2014-17, leader)
 - (iii) FFG Project No. 608022 “Business Models including Batteries for Smart Grids“ (2015–2016, leader of the TU-Wien team)
 - (iv) EU-Widespread Project MMAC Nr.557728 “Center of Excellence on Mathematical Modelling and Scientific Computing” (2015–2016, coordinator from TU Wien)
 - (v) FWF project P 24125-N13 “Modeling and Control of Contagious Phenomena in Heterogeneous Populations” (2012-16, leader)
 - (vi) FWF project I 476-N13 “Endogeneous Heterogeneity and Periodicity in Dynamic Optimization Problems” (2010-13, leader)

Teaching at Sofia University, University of Vienna, TU Wien, Oakland University (USA),
Courses in calculus, statistics, optimization, optimal control, uncertain dynamical systems, viability

Publications: editor of 4 books, 100 peer-reviewed journal publications, 30 papers in proceedings and books

Editorial board member/associate editor: *SIAM Journal on Control and Optimization* (starting 01.01.2019), *Journal of Optimization Theory and Applications*; *European Journal of Mathematics*; *Dynamics of Continuous, Discrete & Impulsive Systems (B)*; *Communications in Optimization Theory*; *Pure and Applied Functional Analysis*

Former assoc. editor of *Central European Journal of Mathematics*; *Journal of Industrial and Management Optimization*; *Mathematical Social Sciences*

Other scientific activities: Main organizer of 9 international workshops and conferences; co-organizer of 8 international conferences, more than 170 talks at scientific meetings.

Member of AMS, ÖGOR, SIAM, BG-SIAM