

CV of Vladimir M. Veliov

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Current position: Univ. Prof. Ret., and Res. Assoc. at Vienna University of Technology

Previous positions:

2008-2021: Full Professor, Vienna University of Technology

2017-2020: Head of Institute of Statistics and Mathematical Methods in Economics

2008-2021: Head of Research Unit “Operations Research and Control Systems”

2000-2008: research assistant and senior researcher at the Vienna University

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

Visiting positions:

University of Bayreuth, Germany (93, 96)

Vienna University of Technology (94, 95, 96, 97, 99)

University of Vienna (95, 96)

Universite de Bretagne Occidentale, France (97, 98, 99, 00, 02, 12, 19)

Université des Antilles et de la Guyane (08, 13, 16, 20)

Oakland University (98)

University of Florida, USA (98)

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)

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

Funded projects: leader of 7 Austrian (FWF and FFG) and EU projects, substantial participation in
over 15 other projects in Austria, Bulgaria, and USA. Leader of the following projects:

(i) FWF Project “Regularity properties of mappings and applications”

(ii) FWF Project P 31400-N32 “Optimal control with finite control set and applications in
Model Predictive Control” (2018-2021, leader)

(iii) FWF Project P 26640-N25 “Regularity, stability and computation of equilibria” (2014-17,
leader)

- (iv) FFG Project No. 608022 “Business Models including Batteries for Smart Grids“ (2015–2016, leader of the TU-Wien team)
- (v) EU-Widespread Project MMAC Nr.557728 “Center of Excellence on Mathematical Modelling and Scientific Computing” (2015–2016, coordinator from TU Wien)
- (vi) FWF project P 24125-N13 “Modeling and Control of Contagious Phenomena in Heterogeneous Populations” (2012-16, leader)
- (vii) FWF project I 476-N13 “Endogeneous Heterogeneity and Periodicity in Dynamic Optimization Problems” (2010-13, leader)

Teaching: Sofia University, University of Vienna, TU Wien, Oakland University (USA);
Courses in calculus, statistics, optimization, optimal control, set-valued analysis

Publications: editor of 5 books, over 100 peer-reviewed journal publications, 30 papers in proceedings and books

Editorial board member/associate editor:

SIAM Journal on Control and Optimization

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 Mathematic*, *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 190 talks at scientific meetings.

Member of AMS, ÖGOR, SIAM, BG-SIAM