Preface

Phan Quoc Khanh · Nguyen Dong Yen

Published online: 2 December 2014

© Vietnam Academy of Science and Technology (VAST) and Springer Science+Business Media Singapore 2014

Professor Dr. Boris S. Mordukhovich

Professor Boris Sholimovich Mordukhovich is a leading researcher in the areas of non-linear analysis, optimization, and control theory. He is one of the founders of modern variational analysis and generalized differentiation. Currently, he is a distinguished university professor and Lifetime Scholar of the Academy of Scholars at Wayne State University (Vice President, 2009–2010 and President, 2010–2011), an AMS Fellow of the Inaugural Class, and a SIAM Fellow.

Boris Mordukhovich was born in Moscow, Russia, and got his Ph.D. degree in Applied Mathematics from Belarus State University (Minsk, Belarus). He immigrated to the USA with his family in December 1988. He developed constructions of generalized differentiation (bearing now his name) and their development and applications to classes of problems in variational analysis, optimization, equilibrium, control, economics, engineering, and other fields. His research results were presented in more than 370 publications

P. Q. Khanh and N. D. Yen are guest editors of this special issue.

P. Q. Khanh
Department of Mathematics, International University of Ho Chi Minh City,
Linh Trung, Thu Duc, Ho Chi Minh City, Vietnam
e-mail: pqkhanh@hcmiu.edu.vn

N. D. Yen (✉)
Institute of Mathematics, VAST, 18 Hoang Quoc Viet, Cau Giay, Hanoi, 10037 Vietnam
e-mail: ndyen@math.ac.vn

including books and patents and especially in the two-volume monograph entitled “Variational Analysis and Generalized Differentiation,” with 1233 pages published by Springer in 2006 (updated reprinting: 2013). Until now, in Mathematical Reviews, 241 works of Mordukhovich have been cited 3638 times by 831 authors. After 8 years from the publishing date, his two-volume monograph has been cited 984 times: 674 times for the first volume and 310 times for the second one. The monograph has been translated into Chinese (vol. I in 2011 and vol. II in 2014). In Google Scholar (<http://scholar.google.com/>), currently, Mordukhovich has 6466 citations. He is in the ISI list of Highly Cited Researchers in Mathematics, 2013.

Mordukhovich’s major scientific achievements were reviewed in detail by R. Henrion, A. Kruger, and J. Outrata in their article “Boris Mordukhovich, the never tiring traveller, celebrates his sixtieth birthday” [Set-Valued Anal. 16: 125–127, 2008].

Boris Mordukhovich was the Editor-in-Chief of the journal *Set-Valued and Variational Analysis: Theory and Applications*, and he is a member or was a member of the Editorial Boards of the journals:

- *Acta Mathematica Vietnamica*
- *Applicable Analysis*
- *Dynamics of Continuous, Discrete & Impulsive Systems*
- *International Journal on Optimization: Theory, Methods, Applications*
- *Journal of Convex Analysis*
- *Journal of Dynamical and Control Systems*
- *Journal of Inequalities and Applications*
- *Journal of Mathematical Analysis and Applications*
- *Journal of Optimization Theory and Applications*
- *Mathematical Programming*
- *Mathematics in Engineering, Science and Aerospace*
- *Mathematics of Operations Research*
- *Modern Economy*
- *Nonlinear Analysis: Theory, Methods, Applications*
- *Optimization*
- *Optimization Letters*
- *Positivity*
- *Set-Valued Analysis*
- *SIAM Journal on Control and Optimization*
- *SIAM Journal on Optimization*
- *Studia Universitatis Babes-Bolyai, Series Mathematics*
- *Taiwanese Journal of Mathematics*
- *Vietnam Journal of Mathematics*

Boris Mordukhovich has been awarded the Doctor Honoris Causa degree of Alicante University (Spain), Babes-Bolyai University (Romania), National Sun Yat-sen University (Taiwan), University of Messina (Italy), Vasile Goldis University (Romania), and Vietnam Academy of Science and Technology. He is a Corresponding Member of Accademia Peloritana dei Pericolanti (Italy), and he has received many other esteemed titles and recognitions.

We would like to express our sincere thanks to the 25 experts in the field for their valuable contributions to this special issue “Some Selected Topics in Variational Analysis and Applications” dedicated to Boris Mordukhovich on the occasion of his 65th birthday.

We wish Professor Boris Sholimovich Mordukhovich good health and new excellent research works.