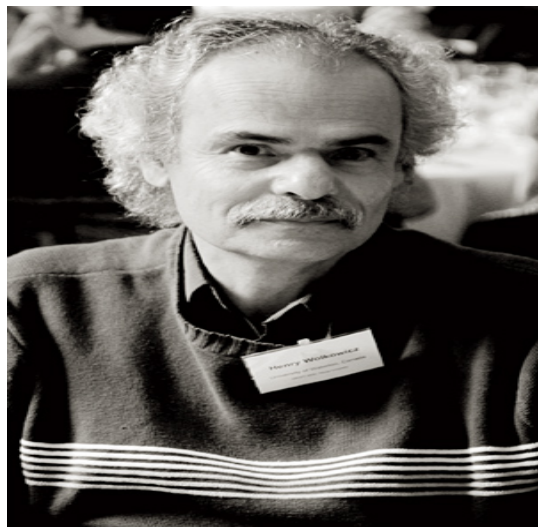


Appl. Set-Valued Anal. Optim. 5 (2023), No. 2, pp. 137-139
Available online at <http://asvao.biemdas.com>
<https://doi.org/10.23952/asvao.5.2023.2.01>

EDITORIAL
**A SPECIAL ISSUE ON RECENT TRENDS IN OPTIMIZATION METHODS AND
THEIR APPLICATIONS DEDICATED TO HENRY WOLKOWICZ ON THE
OCCASION OF HIS 75TH BIRTHDAY**



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This special issue on Recent Trends in Optimization Methods and Their Applications is edited in honor of Professor Henry Wolkowicz on the occasion of his 75th birthday for his substantial contribution to optimization theory and for his scientific leadership.

Professor Henry Wolkowicz was born in 1948 in Poland. Professor Henry Wolkowicz is currently a Professor of Mathematics in the Department of Combinatorics and Optimization, Faculty of Mathematics, University of Waterloo, Waterloo, Canada. He received his Ph.D. degree in 1978 from McGill University in Montreal, Canada and has been at Waterloo since 1986. Professor Henry Wolkowicz has published more than 160 papers and edited several books in the areas of Optimization and Operations Research. Professor Henry Wolkowicz is a SIAM (Society of Industrial and Applied Mathematics) Fellow and have been elected Chair of

the SIAM Activity Group on Optimization and elected to the SIAM and ILAS (International Linear Algebra Society) Boards.

Professor Henry Wolkowicz has supervised approximately sixty Masters, Ph.D. and Postdoctoral Fellows. He served on the editorial board of several international journals in optimization including: Applied Set-Valued Analysis and Optimization, Mathematical Programming (Series B), SIAM Journal on Optimization, and so on. He has organized several major conferences including SIOPT and ICCOPT and many sessions in major international conferences on optimization theory.

This Special Issue collects twelve articles including a preface:

[1] A special issue dedicated to Henry Wolkowicz on the occasion of his 75th birthday, by Xiaolong Qin, Jen-Chih Yao, and Alexander Zaslavski

[2] Convergence rate analysis of randomized and cyclic coordinate descent for convex optimization through semidefinite programming, by Hadi Abbaszadehpeivasti, Etienne de Klerk, and Moslem Zamani

[3] On theorems of Šiňajová, Rankin and Kuperberg concerning spherical point configurations, by A. Y. Alfakih

[4] Projecting onto rectangular hyperbolic paraboloids in Hilbert space, by Heinz H. Bauschke, Manish Krishan Lal, and Xianfu Wang

[5] Facial reduction for the Shor SDP relaxation of QCQPs, by Hao Hu and Xinxin Li

[6] Nonsmooth optimality criterion for a $W^{1,2}$ -controlled sweeping process: Nonautonomous perturbation, by Chadi Nour and Vera Zeidan

[7] Federated learning on Riemannian manifolds, by Jiaxiang Li and Shiqian Ma

[8] Stable-set and coloring bounds based on 0-1 quadratic optimization, Dunja Pucher and Franz Rendl

[9] On calmness of the optimal value function, by Diethard Klatte

[10] Minimum-rank positive semidefinite matrix completion with chordal patterns and applications to semidefinite relaxations, by Xin Jiang, Yifan Sun, Martin S. Andersen, and Lieven Vandenbergh

[11] Convergence of inexact iterates of an algorithm based on unions of nonexpansive mappings, by Alexander J. Zaslavski

[12] Quasi-Newton methods for multiobjective optimization problems: A systematic review, by K. Kumar, D. Ghosh, A. Upadhyay, J.C. Yao, and X. Zhao

Several contributions are due to experienced researchers and many of them have shared with Professor Henry Wolkowicz an intense scientific and personal collaboration. We want to thank all the Authors and Reviewers that made this Special Issue possible. It has been an honor for us to act as Guest Editors of this Special Issue and contribute to the recognition of Henry Wolkowicz's impact. We hope that the readers will enjoy it.

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