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In Memoriam: Włodzimierz (Włodek) Ogryczak



Włodzimierz (Włodek) Ogryczak, Professor of the Warsaw University of Technology, passed away on September 15th, 2020, at the age of 69. He has been known by friends and colleagues as Włodek, the traditional Polish diminutive, much easier to pronounce than his full first name. Włodek, who graduated as a mathematician, has been always looking for challenging real problems where mathematics could help finding possibly best solutions. The Multiple-Criteria Community will remember Włodek for many publications, containing the ground-breaking methodological contributions and their interdisciplinary applications, numerous diverse collaborative projects, as well as countless discussions on diverse occasions, and his different roles, ranging from the university professor, through plentiful scientific projects up to uncountable conferences and seminars. Włodek was a very friendly person; therefore, it was equally pleasant to work with him in diverse set-ups, as a team-member under his leadership, as co-author of joint papers, scientific proposals or within the software developers' teams.

Włodek was convinced that the best trigger for development of new and useful methodology is to work on problems, for which no adequate methodology existed. This naturally leads to interdisciplinary collaboration, because rational problem solving requires integration of relevant knowledge, developed in diverse and overlapping fields of operations research, mathematics, and decision-making, as well as the field of the addressed real problem, so as to represent the

pertinent knowledge in the mathematical models that can be effectively analysed, taking into account the fair consideration of diverse preferences as to the conflicting objectives. Therefore, his research interests included the theoretical investigations, computer solutions and interdisciplinary applications in the area of Operations Research, Optimization and Decision Making with the main stress on:

- Multiple-criteria analysis and decision support
 - Reference point methodology
 - Goal programming models
 - Lexicographic orders
 - Equitable preferences
- Outranking aggregations
- Decision making under risk and portfolio optimization
 - Stochastic dominance and risk measures
 - LP solvable models for portfolio optimization
 - Multiple-criteria models for decision making under risk
- Linear, network and discrete programming
 - Variable upper bounds and other LP structures
 - Ordered MIP structures
- Location and distribution problems
 - Multiple-criteria models and analysis
 - Distribution approaches
 - Equitable solution concepts
- Computer implementations of the solution methods, including DINAS and MOMIP packages.

The milestones of Wlodek's professional life-path:

Both M.Sc. (1973) and Ph.D. (1983) in Mathematics received from University of Warsaw.

D.Sc. (1997) in Computer Science from the Systems Research Institute of the Polish Academy of Sciences..

Title of Professor in Technical Sciences, conferred by the President of Poland (2011).

Since 2000 with the Institute of Control and Computation Engineering (ICCE) at the Warsaw University of Technology.

Earlier with the Institute of Informatics at the University of Warsaw (1973-2000).

In the meantime the H. P. Kizer Eminent Scholar Chair in Computer Science at Marshall University, USA (1989-1992), visiting professor at Department of Operations Research and Multicriteria Decision Aid (Service de Mathématiques

de la Gestion), Université Libre de Bruxelles, Belgium (1994-1995), and at the Computer Science Laboratory (LIP6), Université Pierre et Marie Curie, Paris VI, France (2010).

Włoddek was member of editorial boards of leading international journals, including: *Quantitative Finance Letters*, *International Journal of Portfolio Analysis & Management*, *International Journal of Multicriteria Decision Making*, *Journal of Optimization*, *Operational Research*, *Mathematical Problems of Engineering*, and a guest editor of several special issues. Moreover, he led several scientific projects, participated in many international collaborative undertakings, was member of the Board of the Polish Operational and System Research Society, as well as of countless program and/or organization committees of international conferences.

Włoddek was a great person, dear friend, respected colleague, inspirational teacher and leader. His research had and will continue to have major impact on science and its applications. All those, who knew Włoddek, will not only miss him very much, but also will remember countless diverse interactions that have left both nice memories and scientific results laying foundations for further research.

Janusz Granat, Marek Makowski, Zbigniew Nahorski

on behalf of colleagues from

Institute of Control and Computation Engineering, Warsaw University of
Technology

International Institute for Applied Systems Analysis

Systems Research Institute, Polish Academy of Sciences

