

VORträge zum Operations Research

Kolloquium des Instituts für Operations Research

Zeit: Montag, 22. Juli 2019, 14:00 Uhr

Ort: Raum 320, Gebäude 09.21

Es spricht: Prof. Panos M. Pardalos, University of Florida

Zum Thema: **On the Limits of Computation in Non-convex Optimization**

Abstract: Large scale problems in engineering, in the design of networks and energy systems, the biomedical fields, and finance are modeled as optimization problems. Humans and nature are constantly optimizing to minimize costs or maximize profits, to maximize the flow in a network, or to minimize the probability of a blackout in a smart grid. Due to new algorithmic developments and the computational power of machines (digital, analog, biochemical, quantum computers, etc), optimization algorithms have been used to “solve” problems in a wide spectrum of applications in science and engineering. But what do we mean by “solving” an optimization problem? What are the limits of what machines (and humans) can compute?

Bio:

Panos Pardalos is a Distinguished Professor at the University of Florida, and a world renowned leader in Global Optimization, Mathematical Modeling, and Data Sciences. He is a Fellow of AAAS, AIMBE, and INFORMS and was awarded the 2013 Constantin Caratheodory Prize of the International Society of Global Optimization. In addition, Dr. Pardalos has been awarded the 2013 EURO Gold Medal prize bestowed by the Association for European Operational Research Societies. This medal is the preeminent European award given to Operations Research (OR) professionals for “scientific contributions that stand the test of time.” Dr. Pardalos has been awarded a prestigious Humboldt Research Award (2018-2019). The Humboldt Research Award is granted in recognition of a researcher’s entire achievements to date – fundamental discoveries, new theories, insights that have had significant impact on their discipline. Dr. Pardalos is also a Member of the the Lithuanian Academy of Sciences, the Royal Academy of Spain, and the National Academy of Sciences of Ukraine. He is the Founding Editor of Optimization Letters, Energy Systems, and Co-Founder of the International Journal of Global Optimization, and Computational Management Science. He has published over 500 papers, edited/authored over 200 books and organized over 80 conferences. He has a google h-index of 97 and has graduated 63 PhD students so far. Details can be found in www.ise.ufl.edu/pardalos

Die Vorträge zum Operations Research wenden sich an alle Interessierten!

Nach dem Vortrag laden wir Sie gerne zu einem Gespräch mit dem Referenten und einer Tasse Kaffee ein.

Bei Rückfragen wenden Sie sich bitte an:

Prof. Dr. Steffen Rebennack, Institut für Operations Research.