ΑΡΙΣΤΟΤΕΛΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΕΣΣΑΛΟΝΙΚΗΣ
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COLLOQUIUM

ΑΝΑΚΟΙΝΩΣΗ

Διάλεξη του Καθηγητού **P. Pardalos**
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On the Limits of Computation in Non-convex Optimization

Large scale problems in engineering, in the design of networks and energy systems, in biomedical fields, in 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?

Πέμπτη 4 Απριλίου 2019, ώρα 13:00-14:00
Αίθουσα Μ2
3ος οροφος, Σχολή Θετικών Επιστημών

Πληροφοριες: Α. Συσκακης, Ι. Αντωνιου

Panos Pardalos is Distinguished Professor in the Departments of Industrial and Systems Engineering at the University of Florida, and a world renowned leader in Global Optimization, Mathematical Modeling and Data Sciences. He was awarded the 2013 Constantin Caratheodory Prize of the International Society of Global Optimization, among other important distinctions. He has published over 500 papers, edited/authored over 200 books and organized over 80 conferences. He has a google h-index of 95 and has graduated 63 PhD students so far. Details can be found in www.ise.ufl.edu/pardalos