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Optimization, modeling, and data sciences for sustainable energy systems

For decades, power systems have been playing an important role in humanity. Industrialization has made energy consumption an inevitable part of daily life. Due to our dependence on fuel sources and our large demand for energy, power systems have become interdependent networks rather than remaining independent energy producers. This talk will focus on the problems arising in energy systems as well as recent advances in optimization, modeling, and data sciences techniques to address these problems. Among the topics to be discussed are emission constrained hydrothermal scheduling, electricity and gas networks expansion, as well as reliability analysis of power grid.

Biography

Panos M Pardalos serves as distinguished Professor of Industrial and Systems Engineering at the University of Florida. Additionally, he is the Paul and Heidi Brown Preeminent Professor of Industrial and Systems Engineering. He is also the Director of the Center for Applied Optimization. He is a world leading expert in global and combinatorial optimization. His recent research interests include energy systems, network design problems, optimization in telecommunications, e-commerce, data mining, biomedical applications, and massive computing.

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