6th International Conference and Exhibition on

Mechanical & Aerospace Engineering

November 07-08, 2018 | Atlanta, USA

On the passage from local to global in optimization: New challenges and risks in theory and practice

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Large-scale problems in all areas of engineering are modeled as optimization problems. Due to new algorithmic developments and the computational power of machines, optimization algorithms have been used to solve problems in a wide spectrum of applications in science and engineering. In this talk, we are going to address new challenges in the theory and practice of optimization, including exact approaches, approximation techniques and heuristics. First, we have to reflect back a few decades to see what has been achieved and then address the new research challenges and directions.

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