

OPTIMIZATION IN COMPUTATIONAL MECHANICS

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Key words: Optimization, Metaheuristic Algorithms, Computational Mechanics, Structural Mechanics, Structural Dynamics, System Dynamics.

ABSTRACT

In the design of mechanical systems, the role of an engineer is to find the best solution by considering problem requirements, security and cost of applications. To ensure the best balance between these necessities, the method called optimization is employed. In the process of time, world resources are decreasing and the importance of time is increasing. For that reasons, optimization is a popular and improvable research area.

The aim of this mini-symposium is to bring together all leading academicians working on optimization of mechanical systems. The symposium is a multidisciplinary scientific meeting in order to discuss new original approaches and original applications of optimization methods. Thus, this mini-symposium will be a valuable source of information exchange between several disciplines related with mechanics. In addition to conventional optimization methods, metaheuristic methods, which imitate natural phenomena, are also included in the scope of the mini-symposium.