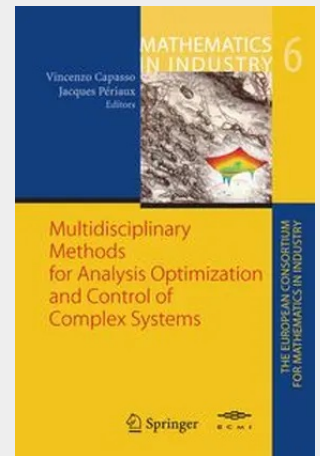


Multidisciplinary Methods for Analysis, Optimization and Control of Complex Systems

The Summer School has been dedicated to one of the proponents and 1st Chairman of the Strategy Board of MACSI-net, the late Jacques Louis Lions (see the dedication by Roland Glowinski). MACSI-net is a European Network of Excellence, where both enterprises and university institutions co-operate to solve challenging problems to their mutual benefit. In particular the network focuses on strategies to enhance interactions between industry and academia. The aim is to help industry (in particular SMEs) alert academia about industrial needs in terms of advanced mathematical and computational methods and tools. The network is multidisciplinary oriented, combining the power of applied mathematics, scientific computing and engineering, for modeling and simulation. It was set up by a joint effort of ECCOMAS and ECMI European associations. This particular event, occurred during March 17-22, 2003, was a joint effort of the Training Committee (chaired by VC) and Industrial Relations Committee (chaired by JP) to alert both Academia and Industry about the increasing role of Multidisciplinary Methods and Tools for the design of complex products in various areas of industrial interest. This increasing complexity is driven by societal constraints to be satisfied in a simultaneous and affordable way. The mastering of complexity implies the sharing of different tools by different actors which require much higher level of communication between culturally different people. The school offered to young researchers the opportunity to be exposed to the presentation of real industrial and societal problems and the relevant innovative methods used; the need of further contributions from mathematics to improve or provide better solutions had also been considered.

This book is devoted to establishing a "communication channel" between Academia (methods) and R&D activities in Industry Applications in the area of innovative multidisciplinary methods for advanced design, optimization and control. Includes supplementary material: sn.pub/extras



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