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Robust and Optimal Control: Design Methodologies and Practical Applications

Guest Editors:

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Message from the Guest Editors

Dear colleagues,

When engineers began to design control systems and more specifically feedback controllers at the turn of the 20th century, with their developments driven by practical needs, their first goals were performance, efficiency and robustness. Quickly, certain design methodologies were proposed and the first applications of optimal control were presented in the early 1960s. While the initial robustness goal has long been forgotten, many robust control design methodologies have been presented since the 1980s and today the principles and performance of all control system design methodologies are evaluated for optimality and robustness. The ease of use allowing engineers to employ these methodologies for their practical problems is also a very important criterion.

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