Industrial Applications of System Identification

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Message from the Guest Editor

Determining the model of a dynamical system is an important problem in engineering. Such a model allows, among other things, a better understanding of the system studied, an analysis of the interactions and causal relationships between different variables and quantities relating to the process, and the observation and prediction of some of these variables.

We are interested here in the industrial applications of parametric identification methods. While the literature reports numerous techniques for the implementation of such a process, this Special Issue is dedicated more particularly to the identification of dynamical systems in the form of transfer function or in the form of state representation, discrete time or continuous time. Experiments can be in open loop or in closed loop, while systems can be linear or nonlinear.

Please note that contribution must describe in details (to help understanding) the industrial system and the identification process (description of the identification algorithm used, the design of the experiment, the validation step).

Special Issue

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Message from the Editor-in-Chief

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