Theory and Applications of Corrective Control

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Message from the Guest Editor

As a novel automatic control theory exclusively aiming to improve the stable-state behavior of asynchronous sequential machines (ASMs), corrective control has been extensively studied for the past two decades, and is now waiting for innovative further studies. In terms of theoretical perspectives, the control goal of corrective control can be extended so as to accommodate flexible aspects of the task in which the controlled ASM is involved. In terms of application perspectives, the concept of corrective control may be utilized to resolve control problems in many existent digital systems with asynchrony, in other systems modeled in the field of systems biology, and in real-time systems.

This Special Issue is, therefore, intended to collect state-of-the-art contributions on, but not limited to, theory and applications of corrective control, especially welcoming contributions on the analytical development of corrective control using the semi-tensor product (STP) of matrices, hardware or software implementation of corrective controllers combined with ASMs, and new approaches to fault diagnosis and fault tolerant corrective control.

Special Issue

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Message from the Editor-in-Chief

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