Event-Triggered and Self-Triggered Control in Wireless Network Systems

Guest Editors:

Prof. Dr. Ángel Cuenca
Instituto Universitario de Automática e Informática Industrial, Universitat Politècnica de València, 46022 València, Spain

Dr. Duarte José Antunes
Department of Mechanical Engineering, Eindhoven University of Technology, Eindhoven 5600 MB, the Netherlands

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Message from the Guest Editors

The rapid development of computer and communication technologies has enabled the evolution of many wireless networked control system applications. However, the amount of information transmitted in these applications is growing progressively, and communication is often expensive. In fact, more resource-efficient communication protocols can be obtained by paying attention to substantial changes observed or expected in regards to relevant variables of the control system.

The purpose of this Special Issue is to offer a forum for the dissemination of novel and original works concerning event-triggered and self-triggered control in wireless networked control systems, offering approaches to open problems, revisiting known challenges with fresh perspectives, presenting reviews of the state of the art, and describing solutions to practical problems.

We invite contributions to this Special Issue concerning topics including, but not limited to, the following:

- Self-triggered control;
- Event-triggered control;
- Wireless networked control systems;
- Resource efficiency;
- Network-induced delays;
- Packet dropouts;
- Predictor–observer-based control.

SpecialIssue

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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