



Real Time Dependable Distributed Control Systems

Guest Editor:

Prof. Dr. Sergio Montenegro

Informatik für Luft- und
Raumfahrt, Universität Würzburg,
97074 Würzburg, Germany

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Message from the Guest Editor

If it (the machine) is truly dependable, it must be distributed! Do you agree? If not, you are invited to present your thesis or idea.

Dependability implies distributed real-time control, because we must avoid any possible single points of global failure, including physical damages. Therefore, the functionality has to be redundant (e.g., replicated) and distributed in different physical locations (of the machine). This requires robust real-time communication links and protocols, which normally cannot guarantee the delivery of each and every message. This requires control algorithms which can operate correctly, even in the case of message loss. This implies predictors and mathematical models. Replication is not enough—we need redundancy management and correct state estimation despite inconsistent, contradictory, and/or missing data and measurements, and all of this in real-time. You are invited to contribute to or to contradict these theses.





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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
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