electronics

an Open Access Journal by MDPI

IMPACT FACTOR 2.6

CITESCORE 5.3

Real Time Dependable Distributed Control Systems

Guest Editor:

Prof. Dr. Sergio Montenegro
Informatik für Luft- und Raumfahrt, Universität Würzburg, 97074 Würzburg, Germany

Deadline for manuscript submissions:
closed (15 September 2020)

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.

electronics

IMPACT FACTOR 2.6

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.
Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
𝕏@electronicsMDPI