Special Issue

Real Time Dependable Distributed Control Systems

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.

Guest Editor

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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.

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