

Special Issue

Fault Diagnosis and Fault-Tolerant Control and Their Applications to Aerospace and Mechanical Systems

Message from the Guest Editors

New approaches to control system design have been developed in order to tolerate component malfunctions while maintaining desirable stability and performance properties. Note that, in the literature, Fault Detection and Isolation (FDI) or Fault Detection and Identification (estimation) (FDD) are often used. The most obvious applications of FDI and FTC include aerospace, aircraft and mechanical system industries. This Special Issue highlights that, maybe due to historical reasons and the complexity of the problem, most of the research on fault diagnosis and fault tolerant control was carried out as two separate tasks. Therefore, further attention should be paid to the analysis and design of the overall system structure, as well as the interaction between fault diagnosis and fault tolerant control, which remain open for further research and development.

- Fault Tolerant Control
- Aircraft
- Spacecraft
- Mechanical Systems
- Actuators
- Sensors
- Maintenance

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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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