CALL FOR PAPERS - SPECIAL SESSION

"Fault Detection, Diagnosis, Prognosis and Control Techniques for Complex Engineering Systems"

for CODIT 2023

July 03-06, 2023 ▪ Rome, Italy

Session Co-Chairs:

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Session description:

Next-generation complex systems require reliable and risk-free Control, Testing, Diagnosis, Prognosis, safe, and maintenance action decisions. These capabilities are fundamental in critical fields of application such as energy, transportation, information, communication technology, manufacturing, logistics, etc., which are considered essential in high-tech industries and plants. The diagnosis is vital to detect electrical or mechanical failures to ensure these systems' reliability. Decision-making, such as set point change, complete stop of operation, maintenance action, or control reconfiguration, usually follows a diagnostic or prognostic. This Special Session invites engineers and researchers in this area to submit papers with unpublished results and to come and share topical scientific research issues. Discussions with participating international experts will allow sharing of the most current knowledge during this event.

Prospective authors are then invited to submit original contributions to this special issue that will cover, but not only the following topics:

- Control techniques of complex engineering systems
- Fault detection, diagnosis, and prognosis in engineering systems
- Condition monitoring and maintenance of plants and complex systems
- Reliability and maintainability engineering of fault-tolerant control systems
- Testing and diagnostics (Destructive and Non-destructive Testing, Vibration monitoring)

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 27, 2023:** **http://controls.papercept.net/conferences/scripts/start.pl**. In PaperCept, click the **CoDIT 2023 link "Submit a Contribution to CoDIT 2023" and follow the steps.**

IMPORTANT: All papers must be written in English and should describe the original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double-column format).

DEADLINES

January 27, 2023: deadline for paper submission

April 15, 2023: notification of acceptance/reject

May 20, 2023: deadline for final paper and registration