



Call for Papers

Special Session

**3RD International Conference on
Control, Decision and
Information Technologies**

April 6-8, 2016

CoDIT'16

Website : www.codit2016.com

Saint Julian's, Malta

**CALL FOR PAPERS
SPECIAL SESSION ON**

Papers submission deadline
extended to **January 07, 2016**

“Fault tolerant predictive control applied to automotive systems”

for CODIT'16

April 6-8, 2016 – Malta

Session Chair:

Prof. Mounir Ayadi, National Engineering School of Tunis, Tunisia

Session description

The purpose of this special session is to present recent works on fault tolerant predictive control with automotive applications in the presence of actuators and/or sensors faults. In industry, technological changes bring better quality products, services and productivity but also a vulnerability to defects like actuator, sensor or system. In the presence of faults, the output of an industrial process may deviate from the intended reference trajectory. This deviation can lead to degraded performances and even to instability of the system causing materials and environmental damage. Diagnostic techniques have been implemented subsequently to detect any defects. In the control system theory, the active fault tolerant control (FTC) tends to maintain the stability of the system and of its nominal performances even in presence of disturbances and/or defects. In the automotive domain, manufacturers have continued to make efforts in recent years to meet the new emissions standards required. In this sense, more constraints were considered to meet customer demands (consume less, having more comfort and more safety). In this context, the proposed predictive FTC strategies must have the ability to handle multivariable control problems with respect to the constraints inherent to automotive systems.

SUBMISSION

Please submit your full paper choosing the right track on the Conference Management Toolkit (Microsoft's CMT) site: <https://cmt.research.microsoft.com/CODIT2016/>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format). Click on the icon to download the Call For Papers.

December 7, 2015: deadline for paper submission

February 2, 2016: notification of acceptance/reject

February 20, 2016: deadline for final paper and registration.