



# Call for Papers

## Special Session

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

April 6-8, 2016

# CoDIT'16

Website : [www.codit2016.com](http://www.codit2016.com)

Saint Julian's, Malta

CALL FOR PAPERS  
INVITED SESSION ON

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

**“Graphs and Bond Graphs for Supervision and Structural Analysis”**

for CODIT'16

April 6-8, 2016 – Saint Julian's, Malta

**Session Chair:**

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### Description:

Bond graph modelling is based on considering the power exchange between the elements of a system. In the general sense it is a linear graph whose nodes are multiport elements and whose edges are bonds. In the modelling purpose, the bond graph methodology is widely presented. Recently, for the analysis purpose, the bond graph tool is used directly for fault detection and isolation fault tolerant control and control design because of its structural and causal representation.

However, a review of the literature suggests a large spectrum of other structural representations of the behavioural model (directed graphs (digraph), linear graphs, bi-partite graphs, causal graphs) for FDI and FTC tasks.

What are the links and differences between these different representations? How to design structural models, how to improve the structural diagnosability of the faults for alarm management design, what are the limits and the complementarities of each method,...?. Such are the questions we want to contribute and discuss during this session from an industrial and theoretical point of view.

**Key words:** Graphs, Bond Graph, structural Analysis, modelling, analysis

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### **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

March 2, 2014: deadline for final paper and registration.