D E T E C T 2018

moDeling, vErification and Testing of dEpendable CriTical systems

In conjunction with 8th International Conference on Model & Data Engineering (MEDI 2018)

October 24-26, 2018 | **detect2018.ensma.fr** | **Marrakech, Morocco**

Call for papers

The area of critical systems represents intersection of several systems criteria based on dependability properties like availability, reliability, reparability, maintainability, etc. Due to their heterogeneity and variability, critical systems require the expertise of modeling, verification and testing domains to ensure their dependability and safety.
DETECT 2018 will provide to the scientific community a forum for discussing and representing experiences, state-of-the-art reports and work in-progress related to the model-based engineering on design, verification and testing of dependable systems.

Topics of interest

The international workshop on modeling, verification and Testing of dependable critical systems (DETECT 2018) will be mainly based on model-based system engineering (MBSE) paradigm. Also, DETECT aims to create a common community from academia and industry to share best practices, tools and methodologies taking into account the functional and non-functional aspects (including, but not limited to: scheduling, performance, security, safety, etc.). Workshop topics include, but not limited to:

- Formal specification and verification of dependable and critical systems
- Domain specific modeling languages, ontologies, methods and frameworks for critical systems
- System evaluation of functional and non-functional properties (scheduling, performance, security, safety, etc.)
- Methodologies and Tools for Cyber-Physical System and Real-Time and Embedded System Design
- Model-based testing of dependable critical systems
- Test models of dependable critical systems
- Data engineering facilities and requirement engineering techniques for critical systems
- Realistic case studies, applications and experimentation

Paper submission and acceptance

DETECT 2018 invites papers in three categories: regular papers (8-10 pages), industrial case studies (6-10 pages), short papers (4-6 pages). Each submitted paper must be original, unpublished and not submitted elsewhere. Contributions should be written in English and be prepared using Springer's Lecture Notes in Computer Science (LNCS) format and according to the instructions contained in the workshop website. Accepted papers will be published by Springer in Communications in Computer and Information Science. Submissions must be in PDF format and should be made using the DETECT 2018 *Easychair* site: **https://easychair.org/conferences/?conf=detect2018**

Journal Special Issue**:** Best papers from DETECT 2018 will be invited for a special issue in the Computer Science and Information Systems Journal. Selected papers must be extended in at least 30% of new material for the journal submission.

Organization

Workshop Co-chairs

- Yassine Ouhammou, ISAE-ENSMA, France
- Abderrahim Ait Wakrime, IRT Railenium, France

Program Committee (to be completed)

- Mohamed Bakhouya, Inter. Univ. of Rabat, Morocco
- Youness Bazhar, ASML, Netherlands
- Alessandro Biondi, Scuola Superiore Sant'Anna, Italy
- Mamoun Filali Amine, IRIT-Toulouse, France
- Abdelouahed Gherbi, ETS Montreal, Canada
- Slim Kallel, University of Sfax, Tunisia
- Mehrdad Saadatmand, RISE SICS Västerås, Sweden
- Laurent Voisin, Systerel, France

Important Dates

- Abstract submission: 07 June, 2018
- Full paper submission deadline: 15 June, 2018
- Notification of acceptance: 30 June, 2018
- Camera-ready papers: 5 July, 2018
- DETECT Workshop: 24 October, 2018

Further Information

https://detect2018.ensma.fr