CALL FOR SUBMISSIONS to the

2nd International
Workshop on the Reliability of Intelligent Environments
(WoRIE'12)
http://amilab.ii.uam.es/worie2012/

to be held within the **8th International Conference on Intelligent Environments (IE'12)**
Guanajuato, Mexico, 26-29 of June 2012
(http://www.intenv.org/)

IMPORTANT DATES

- 15 March 2012: Paper submission deadline
- 16 April 2012: Notification of acceptance
- 30 April 2012: Final version submission
- 26 or 27 June 2012: Workshop date

MOTIVATION

Intelligent Environments (IE) is rising as one of the technical fields with the highest potential to make an impact in daily human life during the near future. Developments in this area are achieved by a complex juxtaposition of complex technical fields. Software is related to the architecture of a building, sensors, a network for data transportation, and different levels of users. Many of these elements are error prone, software is notoriously difficult and even companies like NASA, Microsoft, Intel, BMW, which can afford powerful teams of experienced development teams have paid with lives, economic losses and reputation missing to detect software bugs within their products. Sensors are often unreliable, networks are sometimes unstable and users can put systems to the test in circumstances that were not initially foreseen. Developing this type of systems is therefore complex and given that some applications will be given the tremendous responsibility to take care of humans. Think for example on how much interest there is on the development of systems to support independent living. These systems are intended to give peace of mind to elderly people and their relatives trusting that the system will be able to do many things for them including safety related issues like detecting whether the occupant of the house has fallen or is unwell in some way. Other examples are unmanned cars and other autonomous systems which are supposed to perform tasks for us which can have disastrous consequences should something go wrong.

Our community should develop appropriate standards and specific methodologies to ensure we do our outmost to deliver safe systems given the current state of the art. Given the specific blend of components in our area of development we cannot just transfer developments in other areas (although of course they should be taken into account to inform the process). This event will aim to bring together developers and researchers to focus on all aspects of the development process that can contribute to make Intelligent Environment systems safer and to provide methodologies that can increase the confidence in these developments.

WORKSHOP FORMAT

The core of the event will be the presentation of recent advances in research and applications followed by a debate aiming to encourage a critical reflection on the subject. Presentations can also contain demos about tools and applications.

After the presentations of the selected papers, a panel will focus on critical issues that should be addressed at both academic and professional level. The results of this panel can be used then by different groups to elaborate a summary document on achievements and prospective issues to be considered by the research community. Interaction will be encouraged throughout the event.

TOPICS

Areas of interest include, but are not limited to, the following ones, all of them applied to increase the reliability of IE and related systems (such as Pervasive/Ubiquitous Computing systems, Ambient Intelligence systems, Smart Environments, Multi-Agent Systems, etc.):

- Requirement specification
- Elicitation of user requirements
- Modelling notations
- Rule-based modelling
- Integration of modelling and specification
- Workflow modelling
- Simulation
- Formal analysis and design
- Human-centred design
- Software engineering techniques

- Testing
- Validation
- Formal and semi-formal methods
- Verification of system correctness
- Model checking
- Combination of verification methods
- Quality assessment
- Technical frameworks
- Support tools
- Applications and case studies

SUBMISSIONS

Authors wishing to participate to this event should:

(1) Format their papers according to the IOS Press style, with a length of at least 6 but no more than 12 pages. Latex and Word templates can be found in http://www.iospress.nl/service/authors/latex-and-word-tools-for-book-authors/.

(2) Submit the papers using the CMT account for this workshop (https://cmt.research.microsoft.com/WoRIE2012). See more details on this from the web page of the workshop.

All submitted papers will be reviewed by several reviewers with expertise in the area in order to provide constructive feedback to their authors and select the best ones for their presentation in the workshop and their publication in the proceedings.

PUBLICATION

All accepted papers will be published in a volume of the Ambient Intelligence and Smart Environments Series (ISI indexed) of IOS Press and electronically available through ACM Digital Library.

Selected papers from this workshop will be considered for publication in a special number of a journal which is under negotiation.

PROGRAM COMMITTEE

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