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tu technische universität
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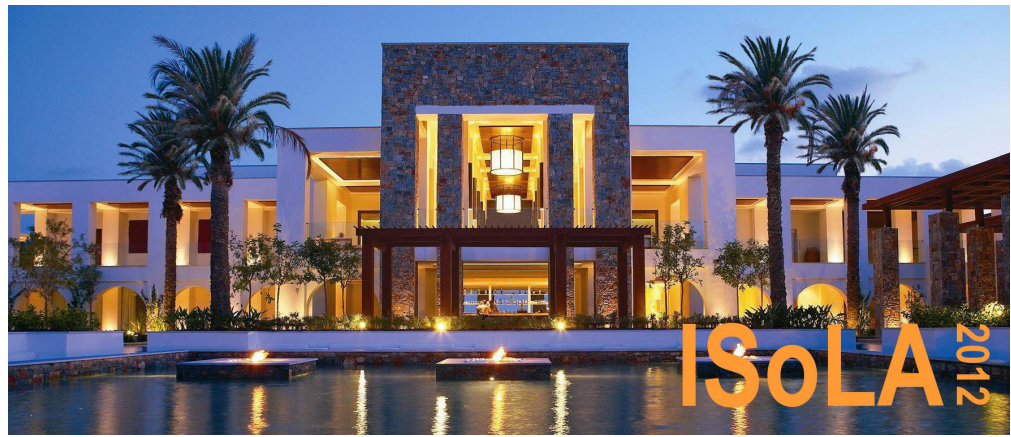
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Deadlines:

Contributions:

Abstract Submission: **March 20th**
Paper Upload: **April 2nd**
Bidding for Review: **March 22th**
Assignment of Reviewers: **April 3rd**
Review: **April 30th**
Decision: **May 7th**
Final version: **June 7th**
ISoLA Speaker Registration: **June 30th**
Early Registration: **Sep. 9th**

All accepted contributions will be published in the Symposiums' LNCS Proceedings (Springer Verlag), and there will be post-proceedings in Springer's CCIS series, in particular featuring the contributions of the LDV, Geo, Helthcare, and Robotics tracks, as well as summaries of some poster presentations and of the discussions in the ITSy and the FRCSS sessions. Selected contributions will invited to the *Innovations in Systems and Software Engineering: A NASA Journal* (Springer Verlag, London), and to *STTT* (Springer Verlag, Heidelberg).



5th International Symposium On
Leveraging Applications
of Formal Methods, Verification and Validation

15-18 October 2012 Amirandes, Heraklion, Crete

Part of the ISoLA Week, 13-20 October 2012

<http://www.isola-conference.org/isola2012>

The **ISoLA Symposium** is a forum for developers, users, and researchers to discuss issues related to the adoption and use of rigorous tools for the specification, analysis, verification, certification, construction, test, and maintenance of systems from the point of view of their different application domains. To bridge the gap between designers and developers of (formal methods based) rigorous tools, and users in engineering and in other disciplines, it fosters and exploits synergetic relationships among scientists, engineers, software developers, decision makers, and other critical thinkers. In particular, by providing a venue for the discussion of common problems, requirements, algorithms, methodologies, and practices, **ISoLA** aims at supporting researchers in their quest to improve the utility, reliability, flexibility and efficiency of tools for building systems and users in their search of adequate solutions to their problems. Applications and case studies with a conceptual message and experience papers with a clear link to tool construction are all encouraged.

The Symposium features invited **Thematic tracks and sessions** containing **Research, Survey, Experience, Panel and Tool contributions** on the

Use of

- Deduction and model-checking
- System construction and transformation
- Program analysis and optimization
- Abstraction and refinement technologies
- Model-based testing and test-based modeling
- Quantitative analysis techniques
- Runtime verification technology
- Tool environments and tool architectures

for Application Areas:

- Automotive, mechanical engineering, and robotics
- Biomechanics, biocomputing
- Electrical engineering, embedded systems, and controllers
- Healthcare and ambient assisted living
- Telecommunications, internet applications, mobile computing
- Transportation, aviation, and space mission
- Interoperability, transformation & processing-oriented technologies
- Mastering legacy systems, evolution and change

Track Themes and Thematic Sessions (to be completed)

Bioscientific Data Processing and Modeling
Learning Techniques for Software Verification and Validation
Model-Based Testing and Model Inference
Quantitative Modelling and Analysis
Software Aspects of Robotic Systems
Runtime Verification: the Application Perspective
Technologies for mastering change
Timing Constraints: Theory Meets Practice
EternalS Session
LearnLib Tutorial: From finite automata to register interface programs
The ITSy Day 2012
Process-oriented geoinformation systems and applications
Handling heterogeneity in formal developments of hardware and software systems
Formal Methods for Intelligent Transportation Systems
Linux Driver Verification

Co-located Events:

- **STRESS 2012** - International School on Tool-based Rigorous Engineering of Software Systems
- **RERS 2012** – 2nd Challenge on Regular Extrapolation of Reactive Systems
- **SEW 2012** – 35th IEEE Software Engineering Workshop
- Graduate/Postgraduate Course on “**Soft Skills for IT Professionals in Science and Engineering**”
- **FRCSS 2012** – 2nd Future Research Challenges for Software and Services