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The 30th International Conference on
Computer Safety, Reliability and Security

Conference venue



Safecom 2011 will be held in Naples, Italy. Naples is a wonderful city on the sea, close to many interesting sites such as the archeological cities of Pompei and Ercolano and the famous islands Capri and Ischia. Naples was founded by a Greek colony in the 9-8th century BC, and from then on, it has been the crossroad of several civilizations and an important cultural centre in Europe. Museums, castles, churches, squares, alleys and archaeological remains make Naples a fascinating city; its historic centre is listed by UNESCO as a World Heritage Site. History, art, culture and gastronomy are only some of the aspects of a complex world: light and darkness are the two facets of a city whose metropolitan area is the second most populated in Italy and one of the largest in Europe.

About Safecom

Since it was established in 1979 by the European Workshop on Industrial Computer Systems, Technical Committee 7 on Reliability, Safety and Security (EWICS TC7), SAFECOMP has contributed to the progress of the state-of-the-art in dependable application of computers in safety-related and safety-critical systems.

SAFECOMP is an annual event covering the state-of-the-art, experience and new trends in the areas of safety, security and reliability of critical computer applications. SAFECOMP provides ample opportunity to exchange insights and experience on emerging methods, approaches and practical solutions. It is a one-stream conference without parallel sessions, allowing easy networking.

More information

www.safecom2011.unina.it
www.ewics.org

Secretariat SAFECOMP 2011

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19 - 21 September 2011
Naples, Italy

PRELIMINARY CALL FOR PAPERS



Safecomp 2011 Key Theme

Safety and security of computer-based systems and infrastructures:
from risk assessment to threat mitigation

The criticality of computers employed in complex information infrastructures and control systems is rapidly growing. Complexity is a result of size, distribution and heterogeneity. Size refers to the number of functionalities requested to modern computers, which imply larger programs and databases. Distribution is an effect of the need for networked ubiquitous devices required by modern applications. Heterogeneity is given by the diverse hardware and software architectures involved in the design.

The criticality attribute is related to the domains in which computer systems operate, whereas a failure can cause a significant loss of money, injuries, kills or even natural disasters.

That scenario requires novel methods and tools in order to assure the dependability of computer systems, taking into account their interaction with other entities in terms both of the negative effects of the system upon the external environment (safety) and of the external environment upon the system (security).

Among other things, in order to enhance the effectiveness and efficiency of the development and assessment process, model-based or model-driven techniques are needed which support holistic analyses at different stages of system life-cycle, through abstraction, hierarchy and modularity. Those techniques should be such to enable a rigorous (possibly automated) systemic process allowing engineers to design and fine-tune appropriate cost-effective countermeasures starting from the risk assessment results.

The best presentation will be awarded free attendance to Safecomp 2012.

Tutorials and Exhibition

Tutorial and workshop proposals are welcome and should be submitted to the conference secretariat. A dedicated space will be available for a Technical Exhibition and a Tool Fair in the communication area where coffee breaks and lunches take place. Organisations wishing to present their products or projects are invited to request further information from the conference secretariat.

Important dates

Abstract submission: 27 February 2011

Full paper submission: 21 March 2011

Tutorial/Workshop proposal submission: 15 April 2011

Notification of acceptance: 9 May 2011

Camera-ready submission: 13 June 2011

Scope of the Conference

Papers are invited in application and industrial sectors as well as research areas. Topics of interest include, but are not limited to:

Application and Industrial Sectors: aerospace and avionics, automotive, industrial process control, networking & telecommunication, railways, robotics and autonomous systems in general, medical devices and systems, e-health, off-shore technology, ship building, power systems, critical infrastructures, security of safety-critical systems, safety guidelines and standards, education & training.

Especially papers on industrial experience and practice are encouraged.

Research Areas: safety & security risk assessment, design for dependability, diversity, fault tolerance, verification & validation, testing, qualification and certification, modelling and simulation, human factors, dependability analysis, networked (distributed) embedded systems, safety-critical computer systems, resilient (robust) systems, embedded intelligence, software and hardware for critical systems, methods, techniques and tools.

A detailed call for contributions will be available at:
<http://www.safecomp2011.unina.it>

Conference Proceedings and Journal Special Issue

The conference proceedings will be published by Springer in the LNCS series (<http://www.springer.de/comp/lncs/>) and made available at the conference.

Extensions of the best papers will be considered for publication in a Special Issue of the International Journal on Reliability Engineering and System Safety (RESS) published by Elsevier.

Chairs

EWICS Chair:

Francesca Saglietti (Univ. of Erlangen)

Honorary Chairs:

Giovanni Bocchetti (Ansaldo STS)

Giorgio Franceschetti (Univ. of Naples Federico II)

Antonino Mazzeo (Univ. of Naples Federico II)

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Roberto Setola (Univ. Campus Biomedico di Roma)

Valeria Vittorini (Univ. of Naples Federico II)

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