



## About Magdeburg

Magdeburg has over 1200 years of eventful history. It was once an imperial palatinate, a member of the Hanseatic League and a major Prussian Fortress which has been marked by unimaginable war and destruction. However, Magdeburg allowed the currents of time to take it into a new future full of possibilities; the city was reconstructed and a particular importance was taken to maintenance, care and preservation of cultural goods. Today, Magdeburg hosts many scientific and research institutes including Fraunhofer, Max-Planck and Leibniz.

## Conference Venue

In the middle of 12km<sup>2</sup> beautiful city park Herrenkrug lies the historic Herrenkrug Parkhotel. Within the 19<sup>th</sup> century building resides a first class hotel, which has been selected now 4 times in a row as the top conference hotel in Germany. The "Jugendstil"-style building offers comfortable hotels suites, a large spa area for personal health and conference rooms in an unique ambience. **SafeComp** will take place in the historic "Festsaal" with its industry exhibition just outside in the winter gardens. During conference breaks it is only a couple of steps to picturesque Herrenkrug Park with its 200 years old trees or the river Elbe. In the evening, Magdeburg's city centre can be reached by a 5 minute ride with the tram line.



## About SafeComp

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 state-of-the-art, actual trends and newest research 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 single-stream conference without parallel sessions, allowing easy networking.

### Additional information

[www.ovgu.de/safecomp](http://www.ovgu.de/safecomp) // [www.safecomp.org](http://www.safecomp.org)

### Secretariat SafeComp 2012

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# 2012

# SafeComp

The 31<sup>st</sup> International Conference on Computer Safety, Reliability and Security

**VIRTUALLY SAFE – making system safety traceable!**

**25. - 28. September 2012  
Magdeburg, Germany**

**CALL FOR PAPERS**



## SafeComp 2012 Key Theme

Today, we are surrounded by socio-technical, embedded systems which have huge influence on our daily life starting from energy distribution, through transportation systems to communication and logistics. Continuous integration and automation leads to always rising complexity and criticality. Although the importance of system safety is widely recognized, an increasing number of severe accidents shows that new and better methods for designing and assessing safety are needed. One main reason is inadequate understanding of the system and its safety arguments. The leading theme of the 31<sup>st</sup> **SafeComp** conference will be:

## VIRTUALLY SAFE – making system safety traceable!

In 2012, we specifically address research and experience, which aims at making dependability assessments both more precise and better to understand. Some examples might be model based approaches, simulation and virtual reality, understandable presentation of safety cases and/or methods for ensuring quality of the used safety arguments. A special focus will be given to multi-disciplinary approaches addressing several dependability issues and their interdependencies at the same time.

### Important dates

- Abstract submission:** 05. February 2012
- Full paper submission:** 19. February 2012
- Tutorial proposals:** 30. April 2012
- Notification of acceptance:** 14. May 2012
- Camera-ready submission:** 04. June 2012

## Scope of the Conference

### Dependability related topics include but are not limited to:

- safety/security risk assessment
- model-based design and analysis
- risk reduction and mitigation techniques
- self-healing and resilience
- formal methods, verification and validation
- in-the-loop and model-based testing
- methods for qualification and certification
- dependability analysis using simulation and virtual reality
- human factors in dependability analysis
- cyber-physical threats and vulnerability analysis
- safety guidelines, standards and certification
- safety and security interactions
- traceability & safety cases

### Domains of application include but are not limited to:

- networking and telecommunication
- railway systems, automotive, aerospace and avionics
- logistics, production automation and robotics
- medical devices and e-health
- critical infrastructures and power systems
- off-shore technology
- education & training

### Paper submission details

The tradition of **SafeComp** is to act as platform for bringing together academic research and industrial needs. Therefore, industrial contributions and real-world experience reports are explicitly invited. We solicit two types of papers: **academic papers** (up to 12 pages) and **industrial experiences papers** (up to 8 pages). All papers will be reviewed by at least three program committee members. Papers must not have been previously published or concurrently submitted elsewhere. All accepted papers will be published by Springer in the **LNCS series**. In addition, it is planned to invite the best contributions to a special issue of the **International Journal on Reliability Engineering and System Safety (RESS)** published by Elsevier.

## International Program Committee

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### Local Chairs:

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