

Software Workshop on January 24th, 2008

"Efficient Development of Reliable Software and Related Methods"

The workshop starts at 13.00 h in the conference room BERLIN, Technologiepark Karlsruhe, Emmy-Noether-Straße 11, Germany.

Software based functions make it possible to extend functions, on the basis of classic engineering approaches, and to do so at acceptable costs. The reliability of software-based functions should be in the same range as that of functions without electronics, but the new software-based functions seem to be fault-inducing rather than beneficial. Therefore, improvements in the development and operation of software are the primary objective for ensuring reliability, because the underlying hardware usually works well. More than 40% of the operational failures are induced during the requirements phase, resulting in overwhelming maintenance costs.

The workshop addresses these problems and shows solutions to overcome them based on practicable analytical and constructive methods.

Programme:

- 13.00 h: Welcome
- 13.10 h: Erwin Reyzl, Siemens München: Formal Model Verification in the Industrial Software Engineering Practice
- 13.40 h: Frank Ortmeier, Uni Augsburg: Modell-basierte Sicherheitsanalyse
- 14.10 h: Eberhard Kuhn, Andrena Objects Karlsruhe: ISO 9001 + ISIS: ein agiles Qualitätsmanagementsystem
Break
- 14.50 h: Jose Ruiz, AdaCore France: Ada 2005 for real-time, embedded and high-integrity systems
- 15.20 h: Tom Grosman, AONIX: Hibachi - the Eclipse Ada Development Toolset
- 15.50 h: Christoph Diesch, T-Systems: Testkonzepte und Entwicklungsprozesse für sicherheitsrelevante Systeme/Software
Break
- 16.30 h: Hubert B. Keller, FZK: Einführung modellbasierter Technologien im industriellen SWE Umfeld
- 17.00 h: Peter Dencker, Etas Stuttgart: Modellbasierte Entwicklung effizienter SW in der Automobilindustrie
- 17.30 h: Steffen Becker, FZI Karlsruhe: Software-Komponenten und -Architekturen für die ingenieurmäßige Software-Entwicklung

Meetings:

- 18.20 h: GI FG Ada
- 19.10 h: Ada-Deutschland e.V.
- 19.30 h: GMA FA ES

Hosted by:

Ada Deutschland, Gesellschaft für Informatik (GI), VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik (GMA), Regionalgruppe Karlsruhe der GI, Fachgruppe Ada der GI and Fachausschuss Embedded Software der GMA, VDI-Bezirksverein Karlsruhe and Technologiepark Karlsruhe.

Organised by:

Dr. Hubert B. Keller, Forschungszentrum Karlsruhe, Institut für Angewandte Informatik

Contact via email: Hubert.Keller@iai.fzk.de, subject „Workshop TPK“. Participation is free. Guests are welcome.

Information can be found at

- <http://www.ada-deutschland.de/index.html>
- <http://www.gi-ev.de/regionalgruppen/karlsruhe/>
- <http://www.techpark.de/>