



Dear Sir or Madam.

For SQC and FOKUS the past few months certainly stood under the star of aerospace technology. For the launch of a microsatellite for early fire detection, Fraunhofer FOKUS took on the development of the operating system and control computer. Moreover, the research project OBC-SA for the development of aerospace system architecture has successfully launched into its third phase.

ITEA research project DIAMONDS received the EUREKA Innovation Award 2015/2016. The project was honoured in the category 'Added Value' for its successful development and implementation of a new modelbased testing and monitoring paradigm for security testing of networked software systems. As it is the case every year, SQC will feature on a number of events and fairs. The next exhibition is the

Of course, everyday operations didn't stand still in our domestic sphere either. The SQC-led international

InnoTrans in Berlin in September and we warmly invite you to pay us a visit there. At the System Quality Center (SQC) of Fraunhofer FOKUS, nearly 100 dedicated experts provide you with

often perform business-critical or security- and safety-relevant functions in urban infrastructures, cars, trains, planes or factories. If you have questions or feedback, or if you want to learn more about how to achieve higher product quality, you are very welcome to contact us.

methods, processes and tools for the development and quality assurance of software-intense systems that

Enjoy reading! Best regards Dr. Tom Ritter & Friedrich Schön (Directors SQC) and the Fraunhofer FOKUS SQC-Team

Projects & Activities

and integrating heterogeneous tools. With version 2.0, the newest Eclipse

Version 2.0 of ModelBus® released



standalone services are supported better and ModelBus® is more standard compliant. → more info → ModelBus website

systems for satellites and space craft must provide an ever increasing computer power while at the same time being fault tolerant, Fraunhofer

ModelBus® is a framework for managing complex development processes

versions are supported, Eclipse Communication Foundation is integrated and

- Third phase of OBC-SA Project started
 - On July 1, 2016, the third phase of the OBC-SA project started. As computer

FOKUS is about to develop an architecture for computer systems in space flight among others.



→ more info On June 22, 2016, the microsatellite BIROS with the mission of the early detection of fire departed from an Indian spaceport. Fraunhofer FOKUS was

in charge of the development of the control computer as well as of the

After months of preparation, the team "Alpha Dancers" participated at

→ more info

operating system.



Berlin Michael Müller at the end of June 2016. → more info TAG Cloud Project successfully completed

With the last review on the 16th of March, the project TAG CLOUD was

RoboCup Junior with their mentor Prof. Holger Schlingloff from SQC. As a special price of the jury, the team won a meeting with the Governing Mayor of

successfully completed in which the COOLTURA app and platform was developed. Through COOLTURA, it is possible to explore cultural content via augmented reality, games and social networks. Interactive maps, routes or

→ more info

audio guides make it possible for cultural institutions to present themselves.



Developing modeling tools for the embedded system branch will be the main task of the Papyrus Industry Consortium. Fraunhofer FOKUS is among the co-founders together with companies like Airbus and Ericsson. The aim is to

develop an industry-grade open source MBE solution.

The project RASEN develops techniques, tools and methods to derive security test cases from security risk assessment results and to verify and

→ more info Project RASEN ranked as »excellent« by EU-Experts



→ more info 4th International Workshop on Risk Assessment and Risk-driven Quality Assurance (RISK) Risk-based approaches for ensuring the quality of software and cyber-

> physical systems will be addressed in this workshop. In this year's edition, contributions that address reliability or the Internet of Things are particularly encouraged. The workshop will take place from October 17-19, 2016 in Graz, Austria and is organized by Jürgen Großmann from SQC among others.

> Fraunhofer FOKUS co-designed two innovations among seven partners. The main results were ranked as "excellent" by EU-Experts in November 2015.

update of the security risk assessment based on security test results.

Call for papers: Authors are invited to submit abstracts and manuscripts reporting original unpublished research and recent developments. Please

→ RISK Workshop → Call for Papers

submit your paper via EasyChair.



The InnoTrans 2016 trade fair is set to take place in September 20-23, 2016. Fraunhofer FOKUS' SQC department will host a booth (Hall 23b – Booth 206), showcasing the provision of quality assurance services for railway systems. Services include advice on certification, operation and analysing requirement. → more info

On June 1-4, 2016, ILA Berlin Air Show took place. In this frame, Fraunhofer

FOKUS presented a high-performance On-Board Computer System

Architecture for autonomous controlling of spacecrafts.

→ more info

Presenting high-performance computer systems for spacecraft at ILA

Berlin Air Show



Publications & Awards

Hartmut Lackner received a doctorate

On Thursday, May 12, 2016, SQC hosted the Eclipse DemoCamp which is a great opportunity to discuss new technologies built on Eclipse. This year's keynote speaker was Mike Milinkovich, Executive Director of the Eclipse Foundation. Various projects and demos related to Eclipse were presented and discussed.

»Domain-Centered Product Line Testing« was the topic Hartmut Lackner wrote his dissertation about. On July 13, he received his doctorate at the Humboldt-University Berlin. Back in 2010, Hartmut Lackner started his

partners.

→ more info

→ more info

dissertation at Fraunhofer FOKUS and since 2013 completed in the research training group "METRIK" at the HU Berlin. Congratulations!



EUREKA Innovation Award for ITEA research project DIAMONDS ITEA project DIAMONDS was announced as the winner of the EUREKA Innovation Award 2016 in the category »Added Value«. Prof. Dr.-Ing. Ina Schieferdecker, Director of the Fraunhofer-Institute FOKUS, is the project coordinator of DIAMONDS. In several industry case studies, efficient and automated security testing methods of industrial relevance for highly secure

systems in multiple domains have been evaluated by the consortium of 21

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