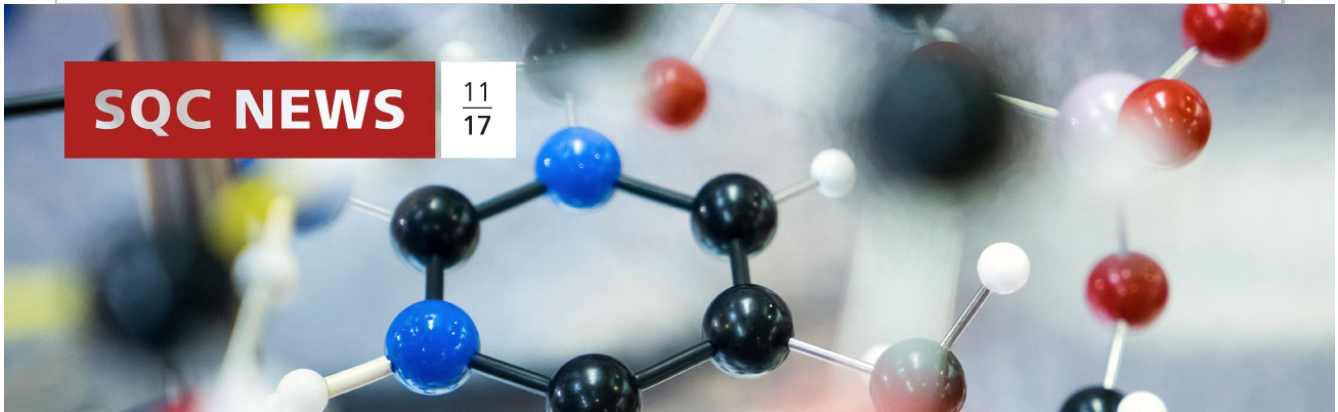


We research for practice



Dear Sir or Madam,

Safety first! There can be neither an innovative IoT device nor a successful space mission without effective concepts for the safety and security of software. For the System Quality Center (SQC) it is one of the main working areas to (further) develop concepts for protecting software users.

Considering the importance of safety and security, our scientists took part at several events and new projects during the last weeks. The 5th User Conference on Advanced Automated Testing (UCAAT 2017) – hosted by Fraunhofer FOKUS – was a great opportunity to talk about recent testing trends. You would like to participate in the work of SQC? Feel free to visit the seminars “Secure Software Engineering” and “IoT Quality Engineering” as well as the ASQF Quality Day.

Beside our latest activities about safety, security and testing, there are great news for our „Smart City“-team: Designed by SQC, a reference architecture became a DIN SPEC and can be pre-ordered soon.

At the System Quality Center (SQC) of Fraunhofer FOKUS, nearly 100 dedicated experts provide you with methods, processes and tools for the development and quality assurance of software-intense systems that 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.

Enjoy reading!

Best regards

Dr. Tom Ritter & Friedrich Schön (Directors SQC) and the Fraunhofer FOKUS SQC-Team

[projects & activities](#)

Kickoff for TESTOMAT project



In October 2017, the TESTOMAT project was launched. Quality software has come to mean “easy to adapt”. So software teams are looking for a balance between striving for reliability and striving for agility. 40 European project partners are working on improving Test Automation and the development of a Test Automation Improvement Model.

[MORE INFO](#)

Smart mobilLity at the European land borders – SMILE



SQC is joining the EU project SMILE, which is about the development of low-cost technological solutions to make the management of land borders less resource intensive. Together with 14 European project partners we are working on technologies like face recognition, open electronic identification, smart mobility and machine learning.

[MORE INFO](#)

New ETSI Working Group



During ETSI IoT Week 2017, the new ETSI working group “Testing” (TST) has been established. The initial technical focus will be on IoT network layer, IoT layer as well as application layer. Become a member and take the opportunity to develop studies, guidelines, test catalogues and test specifications for specific IoT technologies.

[MORE INFO](#)

Workshops and seminars by SQC



The seminar “Secure Software Engineering” is a part of Fraunhofer Academy’s “Cyber Security Training Lab”. It addresses to software architects, developers and planners. Key aspects of the training are Secure Design, Coding and Software Security Tests.

Coming next year, the seminar „IoT-Quality Engineering” (IoT-QE) will provide methods and guidelines for quality engineering of IoT solutions. Trained by experts of ASQF e.V. and GTB e.V., participants will be certified “Certified Professional for IoT, Foundation Level”. The seminar will be part of the iSQI Certifications, offering webinars around certifications and examinations.

[SECURE SOFTWARE ENGINEERING \(GERMAN\)](#)

[ISQI CERTIFICATIONS](#)

events & presentations

Cyclehack Event 2017



The Global CycleHack Event took place from September 15-17, 2017, in Berlin. The focus of this international event is on cycling: How do we facilitate access to cycling? How can we make it safer and more interesting? At the event, scientists from SQC presented their by the EU commission registered patent as a project idea.

[MORE INFO](#)

ITG 5.2 Workshop "Smart Cities"



On September 28, the workshop "Smart Cities" took place in Lübeck, Germany. Within the framework of the ITG 5.2, experts for system architectures and transport technology from industry and science meet regularly to exchange information on current developments. SQC scientist Nikolay Tcholtchev held a tutorial on the topic of reference architectures for ICT in Smart Cities.

[MORE INFO](#)

SQC at ETSI IoT Week 2017



From October 23-26, the ETSI IoT Week 2017 took place in Sophia Antipolis, France. Together with the European project ARMOUR, SQC scientists Sascha Kretzschmann and Axel Rennoch demonstrated the IoT Testware available from the Eclipse Foundation, which is being developed as part of the IoT-T project.

[MORE INFO](#)

SQC at the Space Tech Expo 2017



From October 24-26, the Space Tech Expo 2017 – Europe's meeting place to show latest innovation in space technology – took place in Bremen, Germany. Together with colleagues from the Fraunhofer Space Alliance, SQC Scientists presented a high performance On-Board Computer System Architecture (OBC-

SA) for autonomous controlling of spacecrafts.

ON BOARD COMPUTER SYSTEM ARCHITECTURE

SPACE TECH EXPO 2017

Nikola Serbedzija for Vice Chair



SQC scientific advisor Nikola Serbedzija will be Vice Chair at FTC 2017 – Future Technologies Conference 2017. The FTC is a worldwide forum for reporting technological breakthroughs in the areas of Computing, Electronics, AI, Robotics, Security as well as Communications and will take place from November 29-30, 2017 in Vancouver, Canada.

MORE INFO

ASQF Quality Day 2017



At the ASQF Quality Day representatives from science, industry and authorities will come together to discuss and exchange ideas on the topic of quality assurance. This year the Quality Day is about "Quality and Certification for the Internet of Things". It will take place on Wednesday, November 29 in Berlin.

MORE INFO & REGISTRATION

publications & awards

DIN SPEC 91357 Open Urban Platforms



Cities are facing challenges regarding the digital revolution. Therefore, the question arises on how to efficiently control, manage and provide ICT services and data? Through the final voting of "DIN SPEC 91357 Open Urban Platforms" by DIN, a reference architecture co-designed by SQC will become the standard guideline for the development of integrated Smart City solutions. The DIN SPEC can be pre-ordered and will be published in 12/2017.

MORE INFO (GERMAN)

STV17/INTUITEST Joint Research Workshop



Together with INTUITEST 2017 workshop, the STV17 workshop for System Testing and Validation took place on October 10 in Berlin, Germany. About 50



participants have been discussing work in progress as well as ideas for future trends. Follow the link below to find presentation slides and proceeding.

[MORE INFO & PRESENTATIONS](#)

UCAAT 2017 review



From October 11-13, the 5th UCAAT took place in Berlin, Germany. With Martin Schneider and Marc-Florian Wendland, two SQC scientists presented some of their recent work. Find their abstracts and presentations in the links below.

[PRESENTATION M. SCHNEIDER](#)

[PRESENTATION M.-F. WENDLAND](#)

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The Fraunhofer Institute for Open Communication Systems

FOKUS

Kaiserin-Augusta-Allee 31

10589 Berlin

Phone +49 30 3463-7000

info@fokus.fraunhofer.de

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Hansastraße 27 c

80686 München

www.fraunhofer.de

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