

## Subject: Expanding Horizons

Call for Papers

**Subject: Expanding Horizons****Strategies, techniques, tools and best practices for efficient testing of software and systems in the field of digitalization, IoT and AI**

The Software-QS-Tag is the largest and leading conference in Germany for software quality and testing. Two keynotes, about 60 contributions (lectures, tutorials, workshops and research papers) in five parallel tracks, as well as an accompanying exhibition present strategies, techniques, tools and best practices for the efficient testing of software and systems in projects of different sizes and industries.

**The main theme for 2019 is „Expanding Horizons“:**

The advancing digitalization with rapidly developing technologies such as Cloud-Computing, Internet of Things (IoT) or Artificial Intelligence and Machine Learning (AI, ML) requires improvement or new test approaches. The knowledge of the underlying new technologies and application domains is just as important as networking and agile cooperation between all those who are involved in the development process.

The conference papers discuss the challenges posed by current and new technologies or fields of application, and how participants can solve these challenges or prepare for them.

**Invitation to submit conference papers, tutorials and workshops**

We are looking forward to field reports, tutorials, workshops and practical, new research results from software QA and testing in fields of application such as: company IT, E-Commerce, Web-Services, Mobile Services and Applications, Digital Media, Cloud-Computing, InternetofThings, Embedded Systems, Artificial Intelligence/Machine Learning, Robotics/Autonomous Systems, Safety Critical Systems (Medical Devices/Healthcare, Automotive, Rail, Aerospace ).

The contributions will be presented on two conference days in five parallel tracks. Your article must be related to one of the following track topics, for example by dealing with one or more of the following questions:

**■ Management & (agile) Scaling**

Explain how development and test processes are designed (agile, hybrid, V-model etc.), organized and controlled. Is the organization agile and how important are „DevOps“? Do frameworks like SAFe or Nexus™ help with agile scaling? How is the cooperation of all participants in the development process structured? Which (new) requirements or tasks arise for the people who are involved? What is the test management procedure (test effort, prioritization of tests, management of test data, test environments and infrastructure)? How do you evaluate the quality of the software result (especially cloud, IoT, AI/ML and other innovative components)? Which standards and compliance regulations apply or had to be fulfilled? What experiences have been made for future projects?

**■ Requirements & Early Testing**

How are requirements identified, formulated and documented? How are these discussed and agreed with the customer and in the team? Which methods, notations (Epics, User Stories etc.) and tools are used? How are the testability and traceability of the requirements ensured? Which measures for „early testing“ („shift-left“) are used (e.g. review, inspection, code analysis) and with what success? How are non-functional requirements (modularity, reusability, analyzability, test interfaces, etc.) handled? How is the coordination and synchronization of requirements between different affected teams, departments, company units carried out?

**■ Test Methods & Test Data**

Which methods, techniques and tools are used to design and/or generate tests and test data (e.g. Combinatorial Testing, Model-Based Testing (MBT), Fuzzing and Search-Based Testing, Test Data Generation/Selection/Prioritization/-GDPR-compliant anonymization)? How do the respective methods work and what experiences have been made? What new insights are there with Test Driven Development (TDD, BDD, ATDD etc.)? Which methods are chosen for QA and testing of new technologies (e.g. Cloud, IoT, AI/ML blockchains)? Can AI be used to select and/or create test cases? Can AI be used to automatically generate test cases from a (formal) specification? What approaches/experiences/research are available?

**■ Test Automation & DevOps**

Which techniques and tools are used for test automation? How and under what conditions can the step towards „Continuous Deployment“ or „Continuous Delivery“ be successful? Which tool chains are used? What role does „testing in production“ play and how can risks be avoided? Is there monitoring of the systems in operation („Quality in Use“)?

## ■ **Special Topics: Domain-, Technology- & Social-Skills**

What kind of expertise does the tester or the testing team member need to find „the right“ defects? How well does cross-functional co-operation work in current projects (also with regard to the appreciation of the different tasks of tester and developer)? Are DevOps already reality and are companies and their teams prepared? How can you establish basic knowledge quickly and efficiently for the professional testing of new technologies (especially Cloud, Blockchain, IoT, AI/ML technology)? ? What are the framework conditions and programmes for training and further education of the teams? Which technical contents and social skills are needed and conveyed?

## **Contributions can be submitted in the following formats:**

- **Keynote (60min):** The keynote at the opening of the conference presents aspects, theses and range of the main topic „Expanding Horizons“ and thus sets the motivating prelude and framework for the following conference presentations.
- **Field report (45min):** Your field report shows which changes (evolutionary or disruptive) have to be mastered in your company or project in order to be successful in development, test or IT operations. It describes where and how QA and testing are affected and explain which new or changed procedures, methods, techniques and tools have been used. It discusses which results were/are achieved and how, from today's perspective, the benefits achieved in comparison to the previous situation are assessed (e.g. risk reduction, quality gain, time gain, cost savings, error avoidance, standardization of procedures, etc.).
- **Tutorial (90min):** Your tutorial introduces a certain method (e.g. Test-Driven-Development) in detail or deepens a special aspect of the conference topic (e.g. test cloud-based applications, test of AI/ML algorithms). The participant learns the method from the theoretical basics to the application of the technology in practice.
- **Workshop (90min):** Your workshop deepens a special topic. In addition to the tutorial, the workshop format offers participants the opportunity to do their own practical exercises under your guidance.
- **Solution-Workshop (45min):** You want to present your tools, products or services in the field of software quality and software testing? As an exhibitor, you have the opportunity to present your solution to a qualified target group in a meaningful way within the framework of a solution workshop you have designed.

## **Target group**

**SW/HW development managers, IT managers and team leaders** benefit from a wide range of examples of how procedures and processes can be further improved.

**Test managers, test leaders, project managers, product owners and Scrum Masters** learn how to design and implement current projects more efficiently.

**Test designers, test automators, testers and developers** get to know techniques and tools that help in daily practice.

## **Timetable and schedule**

**Filling:** Please submit your contribution with your contact details by **30.04.2019** at the latest via web form on the conference website: <https://www.qs-tag.de/en/call-for-papers-form/>

**Programm comitee:** The selection of contributions will be made by an independent program committee. Notification of acceptance of your contribution will be sent (according to current planning) by **30.06.2019**.

**Best Paper Award:** The best contribution will receive the „Best Paper Award“ at the Software-QS-Tag. The evaluation criteria are: quality of content, news and depth of the full paper submitted (in addition to the abstract) as well as feedback from the participants on the quality of the lecture and presentation. The submitted full paper must have at least 5 A4 pages. Submissions of a smaller size are permitted, but will not be considered for the Best Paper Award

The award-winning Best Papers of recent years can be found as examples here [www.qs-tag.de/veranstaltungsinfo/best-paper-award/](http://www.qs-tag.de/veranstaltungsinfo/best-paper-award/)

## **Exhibition**

The exhibition space is limited! Secure your desired place by registering early. You can find our exhibitor documents on the conference website or send us an e-mail to [qs-tag@imbus.de](mailto:qs-tag@imbus.de).

## **Event**

The conference takes place from 24<sup>th</sup> to 25<sup>th</sup> October 2019 at the Steigenberger Airport Hotel Frankfurt/Main.

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## Speaker Conditions

**Agreement on participation as a speaker at the conference „Software-QS-Tag“**

By submitting your CONTRIBUTION, you irrevocably agree to the following agreement between you (hereinafter referred to as „SPEAKER“) and imbus AG (hereinafter referred to as the „ORGANIZER“):

**1. Place, date and organizer of the conference**

You submit your CONTRIBUTION to the presentation and publication at the following conference: Software-QS-Tag 2019

**Place:** Steigenberger Airport Hotel Frankfurt, Unterschweinstiege 16, 60549 Frankfurt/Main Airport, Germany

**Date:** 24. October 2019 (First Day)  
25. October 2019 (Second Day)

The conference is organized by imbus AG, 91096 Moehrendorf, Germany ([www.imbus.de](http://www.imbus.de)).

**2. Submission and assessment**

The submission of the CONTRIBUTION must be made via the submission form on the website [www.qs-tag.de/en](http://www.qs-tag.de/en). The ORGANIZER is not obliged to take submissions by other means. The PROGRAM COMMITTEE ([www.qs-tag.de/en/community/program-committee/](http://www.qs-tag.de/en/community/program-committee/)) will select the CONTRIBUTIONS received up to the submission deadline (see schedule in the Call for Papers: [www.qs-tag.de/en/call-for-papers/](http://www.qs-tag.de/en/call-for-papers/)) those CONTRIBUTIONS accepted by the ORGANIZER for presentation and publication at the conference.

Criteria for this assessment are the content criteria published in the Call for Papers ([www.qs-tag.de/en/call-for-papers/](http://www.qs-tag.de/en/call-for-papers/)) as well as the „Speaker Guidelines“.

The SPEAKER is obliged to indicate whether/where the CONTRIBUTION has already been presented or submitted elsewhere. Changes/extensions/updates to such/parallel publications shall be clearly indicated in the submission.

There is no claim to acceptance of the CONTRIBUTION. The CONTRIBUTION can be rejected at any time and without any reasons by the PROGRAM COMMITTEE or the ORGANIZER.

This also applies after a possible acceptance of the CONTRIBUTION. The title, length, content and presentation format can be adapted in the course of the review process in consultation between the PROGRAM COMMITTEE and the SPEAKER. The SPEAKER will be available to answer questions by telephone or email, participate appropriately and implement changes in a timely manner.

**3. Notification of acceptance or rejection**

Upon completion of the selection process, the ORGANIZER notifies the SPEAKER of acceptance or rejection of the CONTRIBUTION.

■ **In case of rejection:** No fees will be reimbursed for the submission or preparation of the CONTRIBUTION and no compensation will be granted. The documents submitted remain the internal documentation of the ORGANIZER. A publication by the ORGANIZER does not take place.

■ **In case of acceptance:** The ORGANIZER will finalize the submitted documents with regard to form and content and, if necessary, carry out a further correction. A telephonic fine-tuning of the lectures, changes, additions with the program committee – as far as necessary - takes place up to 2nd July 2019. The SPEAKER will hereafter incorporate necessary corrections and submit the corrected documents in full to the agreed issuing date by e-mail, format powerpoint to [qs-tag@imbus.de](mailto:qs-tag@imbus.de) until 2nd September 2019.

■ **Acceptance as a substitute lecture:** In order to be able to offer high-quality substitute CONTRIBUTIONS in the event of the failure of a SPEAKER on the day of the event, the ORGANIZER will, at his own discretion, accept CONTRIBUTIONS as a substitute lecture. The affected SPEAKERS will be informed about the acceptance as a substitute SPEAKER and may agree to it or reject it. If agreed, the ORGANIZER decides whether the lecture has to be held, at the latest, on the respective day of the event. In this case as well, the SPEAKER agrees to prepare its CONTRIBUTION and presentation in accordance with all the rules of this agreement in time, to be present at the event and to present the lecture at the ORGANIZERS request.

## 4. Lecture timetable and event

Once the amounts have been accepted, the ORGANIZER will schedule the lectures in the course of the event. The event program will be published on the conference website [www.qs-tag.de/en](http://www.qs-tag.de/en). Changes to the event program by the ORGANIZER are also possible after publication at any time. The ORGANIZER reserves the right to cancel the event if the market is not sufficient.

## 5. Presentation, representation, participation

Unless otherwise agreed in writing, the SPEAKER will personally present its CONTRIBUTION to the lecture schedule specified in the program. In the event of a hindrance, the SPEAKER will send a qualified representative and bear any costs incurred.

The SPEAKER will plan the arrival timely so that he/she arrives at the venue in time before the start of the first conference day. For arrivals from a larger distance (especially intercontinental flight) the arrival is to be planned the day before.

The SPEAKER ensures that professional content is the focus of the presentation according to the Call for Papers and that the presentation does not bear any primary advertising character.

The SPEAKER will be present at the venue during the entire conference, and will be available to the conference participants appropriately for questions and expert discussions.

Professional exchange with conference participants also takes place via social media. For this purpose, the SPEAKER agrees to be available from calendar week 38 for a period of eight weeks for questions and discussions on its presentation as a member of the „Software-QS-Tag“ group on xing.com. By default, a standard membership on xing.com is free of charge. Should this chance within the stipulated timeframe, imbus AG will assume the costs incurred for the membership of the SPEAKERS during this period.

## 6. Use and exploitation rights

The SPEAKER ensures that all materials (texts, slides, diagrams, illustrations, photos etc.) submitted and/or presented by him are free of third-party copyrights. Otherwise, the SPEAKER assures that he has been authorized to use and publish such documents and content by the respective rights holder. If third party rights of a presentation or exploitation contrary to his agreement, the SPEAKER will notify the ORGANIZER immediately.

In case of acceptance of the CONTRIBUTION, the SPEAKER expressly agrees to the following use and exploitation by the ORGANIZER and admits the ORGANIZER the right to use and exploitation on an indefinite and permanent basis and irrevocably:

- The submitted contribution (in short or long version as well as the accompanying presentation) and information about the SPEAKER (curriculum vitae, photo) may be passed on a part of the electronic (USB sticks or for download) and/or printed subscriber documents.
- Excerpts from these materials may be used for the purposes of conference marketing, for: Information about the program on [www.qs-tag.de/en](http://www.qs-tag.de/en) and [www.imbus.de/en](http://www.imbus.de/en), posters, PR measures, social media campaigns, mailings etc.

In addition, these materials may be published by the ORGANIZER on the internet, in a conference proceeding or in other suitable media. The SPEAKER agrees to be filmed or photographed. In particular, he agrees to the fact that his presentation is recorded

by the ORGANIZER or on his behalf in word and picture. He will not raise any objection to a publication (live or at a later date) and will not make any claims in this connection to the ORGANIZER or his contractor.

The SPEAKER entitles the ORGANIZER to make the resulting image and sound material accessible to third parties (also for

remuneration) to the public and to promote the conference and/ or future conference dates with this image and sound material. The same applies to the portrait picture submitted by the SPEAKER within the framework of the Call for Papers. These regulations also apply to translations in the German and/or English language, which may be made by the ORGANIZER (in parts or for all parts of the materials).

## 7. Privacy

The SPEAKER expressly agrees that all submitted documents, as well as the personal data and pictures submitted by him:

- will be stored for the purposes of conference organization and within the framework of utilization in the EDP systems of the ORGANIZER
- will be forwarded for the purpose of reviewing to the members of the program committee
- will be published for the purpose of conference marketing

## 8. Remuneration, travel expenses

The SPEAKER will receive free attendance on both conference days including evening event as well as accommodation in the conference hotel for max. 2 nights. No further remuneration has been agreed upon. Travel expenses will be reimbursed against proof as follows:

- max. EUR 500,- for arrivals and departures within the EU
- max. EUR 2.000,- for arrivals and departures from other regions

## 9. Term and validity

This agreement is valid from the date of receipt of the CONTRIBUTION and includes all versions of the CONTRIBUTION, if any, as well as all related documents (illustrations, photos, content, contribution in short and long version, CV etc.) The agreement expires at 31st December of the year in which the conference takes place. The transfer of rights according to „6. Use and exploitation rights” shall be deemed to be independent of time and place indefinitely.

## 10. Final provisions

The inoperativeness of individual provisions, either in whole or in part, of this agreement shall not lead to the inoperativeness of the agreement as a whole. The inoperative provision shall be substituted by an operative provision that serves the financial purpose of the inoperative provision as closely as possible. The law of the Federal Republic of Germany shall apply. The applicability of the UN Convention on Contracts for the International Sale of Goods (CISG) shall be excluded. The legal venue for all disputes from this agreement is the registered place of business of the ORGANIZER imbus AG.

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### Speaker Guidelines



#### Notes for speakers at the conference Software-QS-Tag

##### Your abstract should include:

- max. 6.000 characters
- Clear reference to the subject of the Call for Papers
- Background information on the classification of the context:  
Which company-/project-experience is reported from? How big are the projects/teams? From how many projects does the experience come? Over what period of time? From which perspective? (eg. test department, test manager, tester, developer, development team, project management, end user/customer)
- Presentation of the approach and the specific idea for a solution: How does the reported method/solution work specifically? Discussion of the „lessons learned“.
- Is the presented approach applicable to other project situations? When and how? Under which restrictions/conditions?

##### Curriculum Vitae

In text form, range between 350 and 1,000 characters. Please describe your professional career, special areas, project experience, your current company, etc.

Please use a flow text and no tabular listing.

##### Speakers photo

Head portrait in color, format: png, jpg or tif file, 300 dpi

##### Language

Please specify the language of your presentation:

- German
- Englisch

The presentation slides (PowerPoint) should be written and submitted in English.

##### Your previous contribution submissions

Please tell us at which conferences you have already presented which presentations, whether the contribution has already been held elsewhere or has been submitted elsewhere.

##### Submission

The submission of the CONTRIBUTION must be made via the submission form on the website [www.qs-tag.de](http://www.qs-tag.de)