PROGRAM

23 May 2024 | Elite World Grand İstanbul Küçükyalı

08:30 - 09:00 **Registration**

09:00 - 09:15 **Grand Opening**
Okan Çakmak, Programme Chair of ISTC 2024

09:15 - 09:30 **Platinum Partner Speech**

09:30 - 10:30 **Keynote - Quality Engineering for DevOps teams**
Rik Marselis, Chairman @ TMAP

There are many ways to develop and deliver IT solutions. In todays IT world DevOps is the culture everyone wants to adopt. True DevOps is about delivering IT systems with the right quality at speed, with a focus on business value. Therefore, DevOps teams integrate quality engineering and testing in their way of working. Some IT solutions however, may require more than a standard DevOps approach, for example when implementing an SAP solution in your organization and integrating it in your IT landscape. This will bring specific challenges for which focused approaches exist.

In this keynote you will learn about various approaches of the TMAP body of knowledge for quality engineering and testing. A little theory and a lot of examples will guide you in your quest to deliver business value with your IT teams.

10:30 - 11:00 **Coffee Break**

11:00 - 11:45 **Panel: Building a Culture of Quality: From Buzzword to Reality**
Ali Çakıroğlu, CTO @ Trive
Hüseyin Erdem Oğuz, Test Director @ Aktif Bank
İlyaş Daşkaya, CTO @ ATP

11:45 - 12:15 **Spiral of Silence in Software Testing**
Hasan Yükselten, Test Director @ Koç Digital

The Spiral of Silence theory is a mass communication model introduced by scientist Elisabeth Noelle Neumann in 1964. Neumann created this theory with her experiments: "If the majority in a group agrees in an environment, those who oppose the dominant view are hesitant to express their opinions. Thus, even if not everyone agrees, an atmosphere arises as if they are, and the spiral of silence envelops everyone. In the course of time, those with opposite views also become a defender of the majority opinion.

We have all experienced the spiral of silence in some way in our lives. Maybe in a family assembly, maybe in a class at school, maybe in a meeting at work... There is an instinct to protect one's interests in the psychology of a person. For this reason, it is not always easy to oppose the dominant view and be the one who says, "the king is naked". The individual, who is afraid of the threat of being excluded from the environment, often remains silent, refrains from expressing his opinion, and enters the spiral of silence by acting in accordance with the general convictions of the environment.

Testing activities mostly stays at the end of the SDLC process. Most of the time, testers have to compensate previous delays and failures. What's more, generally test time is shortened to finish the project on time. So, testers must be the flag raising people in projects but is it easy to talk in meetings or to tell the truth as a tester?

When I look at my career in QA area, I can say that I have experienced many spiral of silence samples in different projects. It is often not possible to present opposing ideas to the manager's view especially in project meetings. Projects put into action with an unrealistic timetable to appear successful, often fall into a spiral of silence and fail.

The right thing in test activities should be the collision of ideas. SW Testing is a social activity. Testers must be interactive people. There must be social interactions that go into the work in a team. The more minds put into the pool of common wisdom, the higher the probability of catching the truth. If it is a spiral of silence, this will cut the pipes of the pool and cause the pool to be empty and dysfunctional.

Staying silent under the influence of power or fearing negatively affects all stakeholders in the long run and creates a great cost. The decisions taken by the project team together with all the stakeholders delay the process a little, but they are more realistic and more accurate decisions. Therefore, it is imperative that test engineers attach great importance to communication management and encourage everyone to talk by breaking the spiral of silence. In fact, the basis of test management is communication management.

12:15 - 13:15 **Lunch Break**

13:15 - 13:25 **Gold Partner Speech**

13:25 - 13:35 **Gold Partner Speech**

13:35 - 14:05 **How AI Can Transform Your Software Quality Management Strategy**
Burak Akusta, Cloud Engineering Director @ Global IT

As artificial intelligence (AI) capabilities rapidly advance, organizations can leverage AI and machine learning to dramatically improve their software quality management processes. This talk will explore the current state-of-the-art AI techniques that can augment and automate tasks throughout the software development lifecycle - from requirements analysis to testing and monitoring.

We will discuss how natural language processing can clarify ambiguous requirements, how automated code analysis can catch errors earlier, and how anomaly detection using deep learning can identify subtle bugs in production systems. You'll learn about concrete AI use cases that leading companies are deploying to reduce software defects, accelerate delivery timelines, and increase end-user satisfaction.

The software industry is on the cusp of an AI-driven quality revolution. This session will equip you with an understanding of the transformative potential of AI for software quality management, empowering you to get ahead of the curve.

14:05 - 14:50 **Panel: The Impact of Artificial Intelligence on Software Testing**
Prof. Dr. Cemal Yılmaz, Professor @ Sabanci University,
Co-Founder & CTO @ text2test

14:50 - 15:15 **Networking**

15:15 - 15:45 **Continuous Performance Testing (CPT)**
Mesut Güneş, Principal Consultant @ Modus Create

Sürekli değişen yazılım geliştirme dünyasında, optimum uygulama performansı aracılığıyla sorunsuz kullanıcı deneyimleri sağlamak çok önemlidir. Sürekli Performans Testi (CPT), tüm geliştirme yaşam döngüsü boyunca performans sorunlarını proaktif olarak belirleyip çözerek ezber bozan bir rol üstlenir.

CPT'nin temel ilkeleri, uygulamanın yanıt verebilirliğinin, kararlılığının ve ölçeklenebilirliğinin sık ve otomatik olarak değerlendirilmesidir. Geliştiriciler, CI/CD işlem hatlarıyla sorunsuz bir şekilde entegre edilerek, kod değişikliklerinin performansı nasıl etkilediğine ilişkin anında geri bildirim alır.

15:45 - 16:15 **Two Phase Model Based Testing**
Istvan Forgacs , CEO @ 4Test-Plus

According to Bloor Research: "Test design automation is the ability to automate the entirety of the testing process starting at an extremely high level"

The most widespread way of test design automation is model-based testing (MBT). Unfortunately, traditional tools require special modelling knowledge. Also, traditional models should be computer-readable, i.e. the model is analysed and processed by a computer program. When the process is ready, the executable tests are generated. Therefore the model should contain every detail of the application, thus in-sprint automation is almost impossible.

The two-phase solution consists of a high and a low-level model. The high-level model consists of textual steps. Each step contains a (user) action, a (system) response – optional, and a test state – optional. Actions and responses are well-known from use case testing, test states are introduced in a different way than program states.

The high-level model is 'human-readable' as abstract test cases are generated from the high-level model. These test cases can be executed by the testers, but executable test code cannot be generated. Abstract test cases can validate the requirement before implementation. In this way, most of the bugs, misunderstandings, etc., can be removed or fixed which is very cheap at this phase of the SDLC. The second phase is the generation of the low-level model and the executed test code. This can be done by manually executing the test cases guided by the model. During the execution, the low-level model is generated. The low-level model is computer-readable, thus we arrived at the traditional solution.

16:15 - 16:45 **The Evolving Landscape Of Software Testing: Skills, Challenges, And Trends**
İlker Erken, QA and Analysis Manager @ BTS Group

Software testing has come a long way from its manual, reactive roots. Today, testers play a crucial role in driving quality throughout the entire software development lifecycle. This talk will delve into the evolution of software testing, exploring how the rise of artificial intelligence (AI) is transforming the way we test software. We'll discuss how testers can leverage AI-powered tools to automate repetitive tasks, identify complex bugs, and gain deeper insights into software behavior. Additionally, we'll explore the evolving skillset required for testers to thrive in this new era, where collaboration with AI becomes essential.

16:45 - 17:00 **Raffle Draw & Prize Giveaway**

17:00 - 18:00 **Conference Cocktail Reception & Mesto Band Concert**

24 May 2024 | TBD

08:30 - 09:00 **Registration**

09:00 - 12:00 **Training**
Exploratory Testing the experience-based approach to get confidence in value
Rik Marselis, Chairman @ TMAP

Testing is about creating and executing tests, but more importantly, it is about obtaining information about quality and risks, all of that to ultimately establish confidence that an IT solution will bring the expected business value. Exploratory testing is very well suited to support that confidence because of its interactive nature and the possibility to involve various stakeholders.

In this workshop we will practice with an easy-to-use excel template to briefly document the goal of testing. Then the simultaneous design and execution of test cases happens, where the actual result of every test is compared with the expectation, which is used to learn about the system and design the next test case. At the end we do a debriefing with the stakeholder.

This hands-on workshop consists of a little theory and many practical exercises that you will perform in pairs or small groups.