I. INTRODUCTION

In order to develop and deliver high-quality products to their customers, software companies have to adopt state-of-the-art software development processes. To face this challenge, companies are applying innovative methods, approaches and techniques like agile methods, DevOps, continuous delivery, test automation, infrastructure as code or container-based virtualization. These new approaches have a high impact on the specification, design, development, maintenance, operation and the evolution of software systems. Therefore, common software engineering activities, organizational forms and processes have to be questioned, adapted and extended to ensure continuous and unobstructed software development.

After the successful 1st and 2nd Workshop on Continuous Software Engineering (CSE 2016/2017) [1,2], held in Vienna and Hannover, the organizers of the workshop extended the scope of the workshop to the following topics:

**Microservices & DevOps**
- Pattern & Best-Practices
- Domain Specific Languages for Microservices
- Distributed Persistence
- Containerization

**Culture and business**
- Teaching CSE approaches
- Organizational issues for CSE
- Digital transformation and innovation

Overall, the workshop aimed at gathering together researchers and practitioners to present new ideas and discuss experiences in the application of state of the art approaches to Continuous Software Engineering.

II. WORKSHOP FORMAT

Based on our former experience, we wanted the workshop to be highly interactive. In order to have an interesting and interactive event sharing lots of experience, we organized the workshop presentations applying the author-discussant model. According to this model, papers are presented by one of the authors. Afterwards, a discussant starts the discussion based on his or her pre-formulated questions. Therefore, the discussant has to prepare a set of questions and has to know the details of the presented paper. The general structure of each talk was as follows:

1. The author of a paper presented the paper (20 minutes).
2. After that, the discussant of the paper opened the discussion using his or her questions (5 minutes).
3. Finally, we moderated the discussion among the whole audience (5 minutes).

This format has proven to be very successful because it led to more intensive discussions among the participants.

III. WORKSHOP CONTRIBUTIONS

Altogether, seven papers were submitted. Finally, three papers were accepted by the program committee for presentation and
publication covering different topics. In addition, we accepted one industry contribution introducing a different point of view. We grouped the papers into two sessions and added a final round-up session to discuss the major findings of our workshop. The following papers were presented:

**Session A:**

A1  Anja Kleebaum, Jan Ole Johanssen, Barbara Paech and Bernd Bruegge: *Tool Support for Decision and Usage Knowledge in Continuous Software Engineering*

A2  Andreas Steffens, Horst Lichter and Marco Moscher: *Towards Data-driven Continuous Compliance Testing*

A3  Nelson Tavares de Sousa, Wilhelm Hasselbring, Tobias Weber and Dieter Kranzlmüller: *Designing a Generic Research Data Infrastructure Architecture with Continuous Software Engineering*

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- Dirk Riehle, FAU Nürnberg (Organizer)
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