

# Message from the Chairs

It is our great pleasure to welcome you to the first edition of the International Workshop on Quality-aware DevOps (QUDOS 2015), held on September 1, 2015 in Bergamo, Italy, co-located with the 10th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2015).

DevOps has emerged in recent years as a set of principles and practices for smoothing out the gap between development and operations, thus enabling faster release cycles for complex IT services. Common tools and methods used in DevOps include infrastructure as code, automation through deep modeling of systems, continuous deployment, and continuous integration. As of today, software engineering research has mainly explored these problems from a functional perspective, trying to increase the benefits and generality of these methods for the end users. However, this has left behind the definition of methods and tools for DevOps to assess, predict, and verify quality dimensions.

The QUDOS workshop focuses on the problem of how to best define and integrate quality assurance methods and tools in DevOps. Quality covers a broadly-defined set of dimensions including performance, reliability, safety, survivability, cost of ownership, among others. To answer these questions, the QUDOS workshop wants to bring together experts from academia and industry working in areas such as quality assurance, agile software engineering, and model-based development. The goal is to identify and disseminate novel quality-aware approaches to DevOps.

QUDOS 2015 is a one-day workshop. In total, we have accepted four technical full papers proposing novel approaches for quality-aware DevOps and four short papers presenting tools in the scope of the workshop. These papers have been selected based on the reviews provided by the QUDOS 2015 program committee members. On average, each submitted paper received three reviews. In addition to the talks presenting the accepted papers, QUDOS 2015 features an invited keynote by Petr Tuma (Charles University of Prague, CZ), sharing his thoughts on performance awareness for DevOps. Moreover, ample space will be devoted to discussions on quality-aware DevOps.

QUDOS 2015 is organized by the consortia of the two EU Projects DICE and MODAClouds, as well as the DevOps Performance Working Group of the Standard Performance Evaluation Corporation's Research Group (SPEC RG). QUDOS 2015 is kindly sponsored by NovaTec Consulting GmbH and technically supported by SPEC RG. We thank the program committee members, who helped with timely and constructive reviews, as well as each author and presenter who submitted their work to the QUDOS 2015 workshop.

Danilo Ardagna, Andreas Brunnert, Giuliano Casale, Andre van Hoorn  
(QUDOS 2015 Chairs)

# QUDOS 2015 Organization

## Workshop Chairs

|                  |                                  |
|------------------|----------------------------------|
| Danilo Ardagna   | Politecnico di Milano, Italy     |
| Andreas Brunnert | fortiss GmbH, Germany            |
| Giuliano Casale  | Imperial College London, UK      |
| Andre van Hoorn  | University of Stuttgart, Germany |

## Program Committee

|                        |  |
|------------------------|--|
| Varsha Apte            | IIT Bombay, India                              |
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| Simona Bernardi        | Centro Universitario de la Defensa, AGM, Spain |
| Andre Bondi            | Siemens Corporate Research, USA                |
| Francesco D'Andria     | ATOS, Spain                                    |
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| Samuel Kounev          | University of Wuerzburg, Germany               |
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| Zhen Ming (Jack) Jiang | York University, Canada                        |
| Manoj Nambiar          | Tata Consultancy Services, India               |
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| Meikel Poess           | Oracle Corporation, USA                        |
| Matteo Rossi           | Politecnico di Milano, Italy                   |
| Arnor Solberg          | SINTEF, Norway                                 |
| Catia Trubiani         | Gran Sasso Science Institute, Italy            |
| Petr Tuma              | Charles University of Prague, Czech Republic   |
| Liming Zhu             | NICTA, Australia                               |