







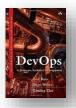
8th ACM/SPEC International Conference on Performance Engineering L'Aquila, Italy, April 27, 2017

### 3rd International Workshop on Quality-aware DevOps (QUDOS 2017)



Danilo Ardagna, Politecnico di Milano, Italy Giuliano Casale, Imperial College London, UK Elisabetta Di Nitto, Politecnico di Milano, Italy Andre van Hoorn, University of Stuttgart, Germany Philipp Leitner, University of Zurich, Switzerland Felix Willnecker, fortiss GmbH, Germany

#### What is DevOps?

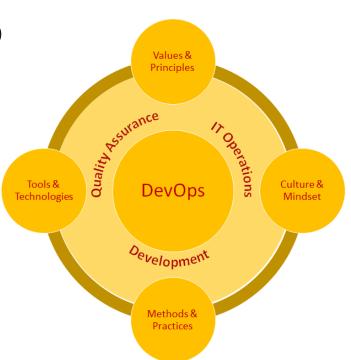






 DevOps is "A set of practices and tools to reduce the time to commit a change to production, while ensuring high-quality." (Bass et al.'15)

- DevOps tackles:
  - Fast-changing requirements
  - Lack of agility in operations
  - Quality issues during delivery



#### QUDOS 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 functional correctness, performance, reliability, safety, survivability, and costs.

**Topics of interest** (not limited to, as detailed in the CfP)

- Foundations of quality assurance in DevOps
- Architectural issues in DevOps
- Quality assurance in the development phase
- Quality assurance during operation
- Continuous deployment and live experimentation
- Applications of DevOps

#### **QUDOS** Workshop Series

#### A brief (but intense!) history:

- 1st edition 2015: Bergamo, Italy (@ESEC/FSE)
- 2<sup>nd</sup> edition 2016: Saarbrücken, Germany (@ISSTA)
- 3<sup>rd</sup> edition 2017: L'Aquila, Italy (@ICPE)
  - First time with "explicit PC chairs"
     Thanks to Elisabetta di Nitto and Philipp Leitner!
- ?4<sup>th</sup> edition 2018: Berlin, Germany (@ICPE)

#### **QUDOS 2017 Organizers**

- SPEC RG DevOps Performance WG (<u>research.spec.org</u>)
- European project DICE (<u>www.dice-h2020.eu</u>)







#### In technical cooperation with:

- DFG Special Priority Programme "Design for Future"
- IFIP Working Group on Service Oriented Systems
- Associazione Italiana per l'Informatica e il Calcolo Automatico Automatico (AICA)







# Welcome to the QUDOS'17 Programme

#### Elisabetta di Nitto

Politecnico di Milano

#### **Philipp Leitner**

University of Zurich, Switzerland













#### **Submissions**

- 10 full submissions
- 4 tool demo submissions
- 3 4 reviews per paper

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applications approaches architectural automation cloud continuous data data-intensive deployment design development DevOps

DIA different enables engineering extraction feedback framework general improvement industry integrated iterative models monitoring organisational performance platform practices process product project QoS quality requirements research resilience results scenario Software speed support systems testing tools transforming used users ware

#### PROGRAM COMMITTEE

Varsha Apte, IIT Bombay, India

Alberto Avritzer, Sonatype Inc., USA

Cor-Paul Bezemer, Queen's University, Canada

Andreas Brunnert, RETIT, Germany

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Asser Tantawi, IBM Research, USA

Catia Trubiani, Gran Sasso Science Institute, Italy

Ingo Weber, NICTA, Australia

Erik Wilde, CA API Academy, USA

## Programme Committee

#### Keynotes

#### **Industrial Keynote**

Francesco Chicchiriccò (TIRASA)

"DevOps Practices and Tools of a Small Company in Love with Open Source"

#### **Academic Keynote**

Antinisca Di Marco (L'Università degli Studi dell'Aquila)

"DevOps and WSN App: a Bio-Inspired Paradigm"

#### Programme at a Glance

Morning	
09:15 - 10:15	Industrial Keynote
10:15 - 10:45	Coffee Break
10:45 - 11:45	Technical Session I - CI, CD, and
DevOps	
11:45 - 12:30	Technical Session II - Monitoring

Afternoon	
14:00 - 15:00	Academic Keynote
15:00 - 15:45	Technical Session III - Performance
Engineering	
15:45 - 16:15	Coffee Break
16:15 - 17:00	Tool Demo Session
17:00 - 17:30	Wrap-Up Discussion and Closing

Evening		
19:30 - Open End	Dinner (self-paid)	

#### Have Fun at QUDOS'17!













