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

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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
A brief (but intense!) history:

• 1\textsuperscript{st} edition – 2015: Bergamo, Italy (@ESEC/FSE)
• 2\textsuperscript{nd} edition – 2016: Saarbrücken, Germany (@ISSTA)
• 3\textsuperscript{rd} edition – 2017: L’Aquila, Italy (@ICPE)
  – First time with “explicit PC chairs”
  \textit{Thanks to Elisabetta di Nitto and Philipp Leitner!}
• 4\textsuperscript{th} edition – 2018: Berlin, Germany (@ICPE)
QUDOS 2017 Organizers

• SPEC RG DevOps Performance WG (research.spec.org)
• European project DICE (www.dice-h2020.eu)

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

- 7 accepted full submissions
- 3 accepted tool demos
Submissions

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

- 7 accepted full submissions
- 3 accepted tool demos
PROGRAM COMMITTEE
Varsha Apte, IIT Bombay, India
Alberto Avritzer, Sonatype Inc., USA
Cor-Paul Bezemar, Queen’s University, Canada
Andreas Brunnert, RETIT, Germany
Lubomír Bulej, Charles University Prague, CZ
David Carrera, Universitat Politècnica de Catalunya, Spain
Juergen Cito, University of Zurich, Switzerland
Pooyan Jamshidi, Imperial College London, UK
Christophe Joubert, Prodevelop, Spain
Cristian Klein, Umea University, Sweden
Klaus-Dieter Lange, Hewlett Packard Enterprise, USA
Marin Litou, York University, Toronto, Ontario
Zhen Ming (Jack) Jiang, York University, Canada
Manoj Nambari, Tata Consultancy Services, India
Cesare Pautasso, University of Lugano, Switzerland
Diego Perez-Palacin, Universidad de Zaragoza, Spain
Dana Petcu, IEAT, Romania
Dorina Petriu, Carleton University, Canada
Meikel Poess, Oracle Corporation, USA
Craig Sheridan, Flexiant, UK
Arnor Solberg, SINTEF, Norway
Josef Spillner, ZHAW Winterthur, Switzerland
Damian Andrew Tamburri, Politecnico di Milano, Italy
Asser Tantawi, IBM Research, USA
Catia Trubiani, Gran Sasso Science Institute, Italy
Ingo Weber, NICTA, Australia
Erik Wilde, CA API Academy, USA
Keynotes

**Industrial Keynote**
Francesco Chicchiricò (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”
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<td><strong>Morning</strong></td>
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<tr>
<td>09:15 - 10:15</td>
<td>Industrial Keynote</td>
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<td>10:15 - 10:45</td>
<td>Coffee Break</td>
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<td>10:45 - 11:45</td>
<td>Technical Session I - CI, CD, and DevOps</td>
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<td>11:45 - 12:30</td>
<td>Technical Session II - Monitoring</td>
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<td><strong>Afternoon</strong></td>
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<td>14:00 - 15:00</td>
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<td>15:00 - 15:45</td>
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<td>16:15 - 17:00</td>
<td>Tool Demo Session</td>
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<td>17:00 - 17:30</td>
<td>Wrap-Up Discussion and Closing</td>
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<td><strong>Evening</strong></td>
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<td>19:30 – Open End</td>
<td>Dinner (self-paid)</td>
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Have Fun at QUODOS’17!