SATToSE 2017: The Post-Proceedings Editorial

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Venue

SATToSE is the Seminar Series on Advanced Techniques and Tools for Software Evolution. Its previous editions have happened in Waulsort (Belgium, 2008), Côte d'Opale (France, 2009), Montpellier (France, 2010), Koblenz (Germany, 2011, 2012), Bern (Switzerland, 2013), L'Aquila (Italy, 2014), Mons (Belgium 2015), Bergen (Norway 2016). Its tenth edition took place in Madrid, Spain on 7–9 June 2017. Each edition of SATToSE witnesses presentations on software visualisation techniques, tools for coevolving various software artefacts, their consistency management, runtime adaptability and context-awareness, as well as empirical results about software evolution.

The goal of SATToSE is to gather both undergraduate and graduate students to showcase their research, exchange ideas, improve their communication skills, attend and contribute technology showdown and hackathons.

The highlights of the programme included two invited talks given by Serge Demeyer and Joost Visser, an interactive tutorial by Felipe Ortega Soto, and a hands-on hackathon by Felienne Hermans. The detailed programme, as well as the pre-proceedings drafts can be found on our website:
http://sattose.org/2017.

Selection process

Each pre-proceedings submission was reviewed by at least three different peers. All submissions with a conflict of interest with one of the editors (co-authored by them or their colleagues) were handled by the other editor. We would like to express our gratitude to the program committee (listed in lexicographic order) who provided the reviews.

- Anya Helene Bagge
- Alexandre Bergel
- Andrea Caracciolo
- Tommaso Dal Sasso
- Serge Demeyer
- Coen De Roover
- Davide Di Ruscio
- Anne Etien
- Mohammad Ghafari
- Michael W. Godfrey
- André Hora
- Mircea Lungu

- ◇ Kim Mens
- ◇ Nevena Milojković
- ◇ Sebastiano Panichella
- ◇ Luca Ponzanelli
- ◇ Alexander Serebrenik
- ◇ Vadim Zaytsev

The call for post-proceedings contributions was communicated to all participants after the event. Only some decided to pursue the finalisation of their contribution for the post-proceedings where they might have solicited more co-authors, changed the title, and included more results. As a result, we have received 5 submissions of the extended versions of pre-proceedings abstracts.

Each submitted report for the post-proceedings has been assigned a shepherd to ensure that the authors took the reviews from the pre-proceedings phase into account. The emphasis was put on clear problem definitions and descriptions of advanced aspects of the techniques contemplated in the solution, as opposed to the finality of the obtained results. Thus, most submissions are intermediate reports on ongoing work or summaries of previously developed tools and papers.

Organisation

- ◇ **General Chair:** Gregorio Robles (Universidad Rey Juan Carlos)
- ◇ **Program Co-Chairs:**
  - Haidar Osman (University of Bern)
  - Andrei Chis (Feenk GmbH)
- ◇ **Hackathon Chair:** Felienne Hermans (Delft University of Technology)
- ◇ **Social Media Chair:** Vadim Zaytsev (Raincode Labs)
- ◇ **Steering Committee Chair** Kim Mens (Université catholique de Louvain)
- ◇ **Steering Committee:**
  - Gregorio Robles (Universidad Rey Juan Carlos, Spain)
  - Anya Helene Bagge (University of Bergen, Norway)
  - Mircea Lungu (University of Groningen, The Netherlands)
  - Davide Di Ruscio (University of L'Aquila, Italy)
  - Vadim Zaytsev (Raincode Labs, Belgium)
  - Coen De Roover (Vrije Universiteit Brussel, Belgium)
  - Oscar Nierstrasz (University of Bern, Switzerland)
- ◇ **Post-proceedings Editors:** Haidar Osman (University of Bern)

Contents of the volume

progress on code quality. Our findings indicate that there is an improvement in the code quality of the students? assignments over the period the tool is used. Our experiments show that students benefited the most from feedback on unit length, unit complexity, and code duplication.

- ◇ *Analysis of a Clone-and-Own Industrial Automation System: An Exploratory Study*

  In industry, the development of similar products is often addressed by cloning and modifying existing artifacts. This so-called clone-and-own approach is often considered to be a bad practice but is perceived as a favorable and natural software reuse approach by many practitioners. Unfortunately, current literature lacks quantitative information about the positive and negative effects of clone-and-own. In this paper, we present the results of our exploratory analysis of an industry system developed using the clone-and-own approach. We found that products from the same product family can vary significantly in change activity over time, divergence from their origin and synchronization activity. We will further investigate these factors to develop quantitative measures for the assessment of clone-and-own benefits and drawbacks.