

# Proceedings of the 18th edition of the BELgian-NEtherlands software eVOLution symposium

<http://soft.vub.ac.be/benevol2019/>

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The goal of BENEVOL is to bring together researchers who are working in the field of software evolution and maintenance. BENEVOL offers an informal forum to meet and to discuss new ideas, important problems, and obtained research results. The 18th edition of BENEVOL was organized and hosted by the Vrije Universiteit Brussel, Belgium from 28th to 29th November 2019. It accepted 11 technical papers and 20 presentation abstracts.

**Technical papers** underwent a mild yet constructive review. We explicitly solicited papers in the early stages of research, which are still rather rough around the edges and could benefit from feedback from the community. Technical papers were reviewed by at least three members of the program committee, assessing whether they are within the scope of BENEVOL (i.e., software maintenance and evolution) and meet its quality criteria. The papers part of the proceedings includes the feedback received during the workshop.

**Presentation abstracts** report on research results that have already been published, or that are ready to be submitted to a conference or a journal. They were reviewed for relevance, and are not included in the BENEVOL proceedings. These contributions are available on the website of the workshop.

Furthermore, BENEVOL 2019 featured two **keynotes** this year. Fabio Palomba, assistant professor at the University of Salerno, gave an overview of the problems, solutions, and challenges associated with flaky tests. Vadim Zaytsev, chief science officer of Raincode Labs talked about his experience in developing and teaching how to build compilers for legacy languages. In the proceedings, you can find the summaries of their talks.

Three papers (i.e., a technical paper and two presentation abstracts) received the best presentation award. During the closing session, the participants were asked to cast their votes for up to three best talks in each submission type. The awarded talks were:

**The Secret Life of Software Communities: What we Know and What we Don't Know** *Gemma Catolino, Fabio Palomba, and Damian Andrew Tamburri* - technical paper

**Catalogue of Energy Patterns for Mobile Applications** *Luis Cruz and Rui Abreu* - presentation abstract

**A Graphical DSL to Design Evolvable Citizen Observatories** *Kennedy Kambona, Jesse Zaman, and Wolfgang De Meuter* - presentation abstract

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