

1st Workshop on Big Software *In-Vivo* Analytics SoViVa'17 @ ESEC/FSE

to be held as a satellite event of the 11th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium of the Foundations of Software Engineering (ESEC/FSE)



September 05, 2017

Paderborn, Germany

CALL FOR PAPERS

<http://www.3tu-bsr.nl/doku.php?id=bsr-ws2017:start>



BACKGROUND

Millions of lines of code – written in different languages by different people at different times, and operating on a variety of platforms – drive the systems performing key processes in our society. The resulting software needs to evolve and can no longer be controlled a priori as is illustrated by a range of software problems. The aim of this workshop is to focus on the *in vivo analysis* of large software systems. By monitoring running systems and logging the stream of events, it becomes possible to visualize behavior, check system correctness, detect security and privacy threats, diagnose and predict problems, and recommend corrective actions.

OBJECTIVES

The mission of this workshop is to advance and provide a scientific basis for *in-vivo software analytics*, and to bring together researchers interested in data analytics for big software. The workshop seeks contributions from researchers and practitioners interested in all aspects of generating, collecting, and analysing event data produced by running systems.

TOPICS

- Run-time monitoring and verification of big software
- Software Data stream analytics
- Process mining for software systems
- Scalable and interactive visualization techniques of run-time software event data

- Data analytics for detecting and predicting software defects
- Run-time analytics for improving and automating software testing and design
- Privacy-enhanced approaches and techniques for software monitoring and run-time event data analysis
- Security and privacy issues in software analytics
- Hybrid approaches combining design-time and run-time analytics for big software

IMPORTANT DATES

Submission deadline: **May 21, 2017**

Notification: **June 16, 2017**

Camera ready copy due: **July 3, 2017**

PAPER SUBMISSION

Authors are invited to submit original, previously unpublished research papers (**full papers of 10 pages including references and appendices, and short or position papers of 5 pages**) following ESEC guidelines (http://esec-fse17.uni-paderborn.de/call_policies.php). All papers must be prepared using ACM Proceedings Template and be submitted electronically in PDF to <https://easychair.org/conferences/?conf=soviva17>.

ORGANIZATION

Marieke Huisman: University of Twente, the Netherlands
Nour Assy: Eindhoven University of Technology, the Netherlands

Annibale Panichella: University of Luxembourg, Luxembourg