

MESOCA 2014 Invited Talk 1

Evolving Software Systems: Emerging Trends and Challenges

Alexander Serebrenik, Eindhoven University of Technology, Eindhoven, The Netherlands

Abstract

Software evolution research is a thriving area of software engineering research. Recent years have seen a growing interest in variety of evolution topics, as witnessed by the growing number of publications dedicated to the subject. Without attempting to be complete, in this talk we provide an overview of emerging trends in software evolution research, such as extension of the traditional boundaries of software, growing attention for social and socio-technical aspects of software development processes, and interdisciplinary research applying research techniques from other research areas to study software evolution, and software evolution research techniques to other research areas. As a large body of software evolution research is empirical in nature, we are confronted by important challenges pertaining to reproducibility of the research, and its generalizability.

Biography

Alexander Serebrenik is an associate professor of software evolution at Eindhoven University of Technology. His current research interests include software evolution and maintenance, and collaborative software development. Serebrenik received a PhD in computer science from Katholieke Universiteit Leuven (2003) and MSc in computer science from the Hebrew University, Jerusalem Israel (1999). He has co-authored more than 100 publications, including two books and thirty journal articles. Serebrenik recently served as the general chair of IEEE ICSM 2013, a workshops chair of CSMW-WCRE in 2014, as a program committee member of a number of software engineering conferences (ICSM, MSR data track, ICPC, CSMR ERA) and he currently serves as the program committee co-chair of the upcoming 22nd International Conference on Software Analysis, Evolution, and Reengineering (SANER 2014). He is a steering committee member of ICSME, a member of IEEE and of the ERCIM Working Group on Software Evolution. Contact him at [a.serebrenik AT tue.nl](mailto:a.serebrenik@tue.nl) or on Twitter [@aserebrenik](https://twitter.com/aserebrenik).