

Message from the SQUADE 2018 Chairs

Welcome to the first international workshop on Software Qualities and their Dependencies (SQUADE). The workshop is collocated with ICSE, the International Conference on Software Engineering, in Gothenburg, Sweden. SQUADE focuses on increasing the understanding of the nature of Software Qualities (SQs), -ilities, non-functional properties or extra-functional requirements (reliability, usability, affordability, etc.), and their interrelationships with the aim of bringing them into balance in the practice of software engineering. The relevance and timeliness of this topic reflects the current and future trends toward more software-intensive systems, with greater complexity, autonomy, speed of change, and need for interoperability within systems of systems, given the frequent system shortfalls and overruns that occur when their SQ balance is not achieved. For this reason, the primary goal of the workshop is to bring together researchers and practitioners to help create more solid foundations for dealing with SQs.

We are pleased to have received, for the first time that this workshop is held, a collection of strong submissions covering many different SQ topics. Out of these, our program committee selected 7 papers to be presented with the purpose of discussing the relationships between SQ topics such as user's satisfaction, usability, code quality, software maturity, timing properties, maintainability, static analysis, validation/verification and testing. This broad range of topics provides a good basis to foster fruitful discussions among the workshop's participants.

We are also delighted to have an excellent talk given by Harold "Bud" Lawson, the 2000 Computer Pioneer Award for his invention of the pointer variable. Harold Lawson will present an overview of an Automatic Train Control System with a special focus on its related software qualities. An interesting particularity of this software-intensive system is that it has been in use since the 70s.

Finally, we would like to express our utmost gratitude to everyone who has contributed to make this workshop a success: all of the authors for their submissions, Harold for his talk, the program committee for their invaluable work on reviewing all the submissions and the participants who decided to join the discussions on software qualities. Thank you!



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