

Welcome to the 3rd Workshop on Education and Practice of Performance Engineering

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ABSTRACT

The Workshop on Education and Practice of Performance Engineering, in its 3rd edition, brings together University researchers and Industry Performance Engineers to share education and practice experiences. The recommendations from previous WEPPE workshops pointed to the need to form a team of critical thinkers that also have good communication skills.

This workshop is a forum to share experiences between researchers that are actively teaching performance engineering and of Performance Engineers that are applying Performance Engineering techniques in industry. Specifically, as ICPE 2021 is virtual, for the 3rd edition, we will give special attention to online Q/A interactions supported by off-line videos.

To achieve these goals we have put together a very exciting program, consisting of 3 full papers and 5 invited talks.

We start by discussing recommendations from previous WEPPE workshops with the talk on Minding the Gap between Education and Practice by Alberto Avritzer, Kishor Trivedi, Alexandru Iosup, where the co-chairs will provide a summary report of previous WEPPE workshops as a starting point for WEPPE 2021 discussion.

We continue with a presentation on “The role of analytical models in the engineering and science of computer systems”, where Y.C Tay, National University of Singapore, reviews the role of analytical performance modeling in engineering computer systems and developing a science of computer systems.

In the talk on “Performance monitoring guidelines” by Maria Calzarossa, Luisa Massari, Daniele Tessera, Università di Pavia and Università Cattolica del Sacro Cuore, the authors present the topic of Performance Monitoring, which is the process for collecting measurements on infrastructures and services.

The talk on “Experience with Teaching Performance Measurement and Testing” by Andre Bondi, Razieh Saremi, Software Performance and Scalability Consulting LLC and Stevens Institute of Technology, the authors review a Course on Functional Testing that they have developed and taught where performance engineering aspects were introduced.

In the talk “An Analysis of Distributed Systems Syllabi With a Focus on Performance-Related Topics” by Cristina Abad, Alexandru Iosup, Edwin Boza, Eduardo Ortiz-Holguin, Escuela Superior

Politecnica del Litoral and Vrije Universiteit Amsterdam, the authors analyze a large set of Distributed Systems syllabi from top Computer Science programs.

In “A New Course on Systems Benchmarking - For Scientists and Engineers”, Samuel Kounev - University of Würzburg, presents an overview of a new course focused on systems benchmarking.

The talk on “Performance Engineering and Database Development at MongoDB” by David Daly, MongoDB, presents Performance and the related properties of stability and resilience in MongoDB.

In the talk “Software Performance Engineering Education: What Topics Should be Covered?” by Connie U. Smith, Performance Engineering Service, the author presents her vast experience with Software Performance Engineering (SPE), how it has evolved, and the skills needed by practitioners. We conclude the workshop with a discussion and a Q/A session.

We would like to welcome the participants of WEPPE'21 and wish all a productive discussion about how to bridge the gap between theory and practice of performance engineering.

CCS CONCEPTS

• **Software and its engineering** → **Software performance.**

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