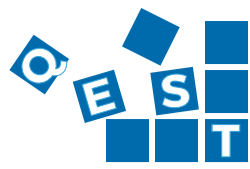# TU WIEN — TECHNISCHE UNIVERSITÄT WIEN

QEST 2020
Quantitative Evaluation of SysTems 2020

17th International Conference on Quantitative Evaluation of SysTems
http://www.qest.org/qest2020/

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QEST 2020 will be held in Vienna, Austria, at the TU Vienna

CALL FOR PAPERS

The **International Conference on Quantitative Evaluation of SysTems (QEST)** is the leading forum on quantitative evaluation and verification of computer systems and networks. Areas of interest include quantitative specification methods, stochastic and non-deterministic models and metrics for performance, reliability, safety, correctness, and security. QEST is interested in both theoretical and experimental research. QEST welcomes a diversity of modelling formalisms, programming languages and methodologies that incorporate quantitative aspects such as probabilities, temporal properties and other forms of non-determinism. This includes work on the combination of quantitative evaluation and verification with machine learning techniques. Papers may advance empirical, simulation and analytic methods. Of particular interest are case studies that highlight the role of quantitative specification, modelling and evaluation in the design of systems. Systems of interest include computer hardware and software architectures, communication systems, cyber-physical systems, infrastructural systems, security systems and biological systems. Papers that describe novel tools to support the practical application of research results in all of the above areas are also welcome.

Keynote speakers

Annabelle **McIver** | Evgenia **Smirni** | Tom **Henzinger**

QEST 2020 will organize a special session under the topic "**Predictive performance by machine learning**." Submissions that address the combination of machine learning and performance prediction are particularly welcomed. **Ph.D. students** whose work is not yet finished are encouraged to register for the Ongoing Work session. This session offers opportunity to discuss, not to publish formally.

Submission formats

Theoretical: advance our understanding, apply to non-trivial problems and be mathematically rigorous.

Methodological and technical: describe situations that require the development and proposal of new analysis processes and techniques.

**Application**: describes a novel application, and compares with previous results.

Tools: should motivate the development of the new tools and the formalisms they support, with a focus on the software architecture and practical capabilities.

Tool demonstration: describe a relevant tool, as well as its features, evaluation, or any other information that may demonstrate the merits of the tool.

Posters: provide a one-page abstract of work that you want to present in an elevator pitch and try to win the best poster award (elected by participants).

QEST 2020 will be part of:

QONFEST
Vienna, Austria
August 31 – September 5, 2020
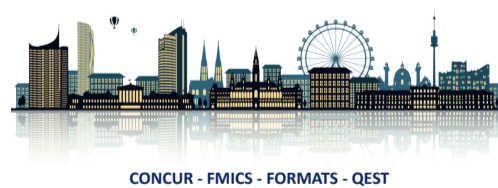
CONCUR - FMICS - FORMATS - QEST

Platinum sponsor & publisher:

INTERCHAIN FOUNDATION   Springer

The conference proceedings will be published in Springer LNCS
Best full papers will be invited to submit to Performance Evaluation

IMPORTANT DATES

Abstract submission:	**March 27, 2020**
Paper submission:	**April 3, 2020 (anywhere on Earth)**
Author notification:	**May 30, 2020**
Final version due:	**June 23, 2020**
Conference:	**August 31 – September 3, 2020**