

3rd International Workshop on Quality and Measurement of Software Model-Driven Development (QUAMES 2022)

Beatriz Marín¹, Giovanni Giachetti^{2,3} and Estefanía Serral⁴

¹Universitat Politècnica de València (UPV), Camino de Vera s/n, Valencia, 46021, Spain

²Universidad Castilla - La Mancha, Avda. de España s/n 02071, Albacete, Spain

³Universidad Andrés Bello, Antono Varas 880, Providencia, Santiago, Chile

⁴KU Leuven, Naamsestraat 69, box 3500, 3000 Leuven, Belgium

1. Welcome Message to QUAMES 2022

It is our pleasure to welcome you to the third edition of the International Workshop on Quality and Measurement of Software Model-Driven Development (QUAMES), co-located with the 16th International Conference on Research Challenges in Information Science (RCIS) 2022. After the successful editions in Nanjing (2013), and Dallas (2014), this year QUAMES is organized as an in-person event in Barcelona.

People and society are more and more dependent on software systems for our daily lives, and social and business contexts. The success of software systems has a direct relation to the efficiency of development processes to obtain high-quality products. In this context, model-driven development (MDD) is a well-known and largely-adopted paradigm for automating software production and re-use of development knowledge.

The MDD paradigm is centered on the automatic generation of software systems by means of model transformations. In such an MDD context, the quality of conceptual models is of paramount importance since it directly influences the quality of final software systems.

The main goal of QUAMES is to present methods, procedures, techniques, and tools that enable the measurement and evaluation of the quality of conceptual models that can be used in MDD environments. QUAMES attracts contributions of the following topics: quality models, measures and measurement for conceptual models, testing of MDD applications as well as model-based testing, defect detection on models, empirical evaluation of quality models, tools for all these topics, quality of models for ethics and trustworthiness, and case studies, experiments, and surveys of MDD projects.

This year QUAMES received 4 high-quality manuscript submissions performed by authors coming from Europe, and South America. Each paper was reviewed by at least 3 members of the program committee. Finally, two of these submissions were accepted for publication. For the first time, we invite papers already published on conferences to pursue more discussion in the workshop. We accept 1 submission of conference-first papers track.

Joint Proceedings of RCIS 2022 Workshops and Research Projects Track, May 17-20, 2022, Barcelona, Spain

✉ bmarin@dsic.upv.es (B. Marín); giovanni.giachetti@uclm.es; giovanni.giachetti@unab.cl (G. Giachetti); estefania.serralasensio@kuleuven.be (E. Serral)

ORCID 0000-0001-8025-0023 (B. Marín); 000-0003-2809-5120 (G. Giachetti); 0000-0001-7579-910X (E. Serral)



© 2022 Copyright for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

 CEUR Workshop Proceedings (CEUR-WS.org)

The program of QUAMES is comprised of a keynote talk and the presentation of the accepted papers. QUAMES starts with an inspiring keynote by Lidia López titled *Quality in agile*. After that, the two presentations of the regular papers accepted will be performed. These papers are titled *An Approach for Model-Based Testing of Augmented Reality Applications* and *A Proposal for Measuring Understandability of Business Process Models*. Finally, the presentation of the conference-first paper titled *Towards Integrating Data-Driven Requirements Engineering into the Software Development Process: A Vision Paper* published in REFSQ 2020 with doi https://doi.org/10.1007/978-3-030-44429-7_10 will be presented to enrich the discussion of quality in MDD environments.

Finally, we would like to thank all the authors for their contributions, the program committee members for their more than valuable work on selecting the papers to be presented at QUAMES 2022, and the RCIS 2022 organizers for their support. We are looking forward to an excellent QUAMES 2022 event promoted by interesting presentations and fruitful discussions. We are confident that you will really enjoy both QUAMES and RCIS this year in the beautiful city of Barcelona!

2. Program Committee

- Oscar Pastor - Universidad Politécnica de Valencia (Spain)
- Monique Snoeck - KU Leuven (Belgium)
- Jose Luis de la Vara – University of Castilla – La Mancha (Spain)
- Maya Daneva – University of Twente (The Netherlands)
- Luigi Buglione – Engineering.IT SpA (Italy), ETS Montréal (Canada)
- Cidgem Gencel – Free University of Bozen-Bolzano (Italy)
- Marcela Genero – University of Castilla – La Mancha (Spain)
- Tanja Vos – Universidad Politécnica de Valencia (Spain)
- Ana Paiva - University of Porto (Portugal)
- Hernán Astudillo - Universidad Federico Santa María (Chile)
- Ignacio Panach - Universidad de Valencia (Spain)
- Juan Cuadrado-Gallego – University of Alcalá (Spain)
- Raian Ali - Hamad Bin Khalifa University (Qatar)
- Yves Wautelet - KU Leuven (Belgium)
- Mehrdad Saadatmand – RISE Research Institutes of Sweden (Sweden)
- Frederik Gailly - Ghent University (Belgium)
- Stefan Biffel - TU Wien University (Austria)
- Marcela Ruiz - ZHAW Zurich University of Applied Sciences (Zwitzerland)
- Martin Solari - Universidad ORT (Uruguay)
- José Antonio Cruz-Lemus - University of Castilla – La Mancha (Spain)
- Anna Rita Fasolino - University of Naples Federico II (Italy)
- Juan Carlos Trujillo - University of Alicante (Spain)
- Dietmar Winkler - Vienna University of Technology (Austria)
- Selmin Nurcan - University of Paris 1 Pantheon Sorbonne (France)