

Welcome from the Organizers

Welcome to the 11th International Workshop on Model-Driven Requirements Engineering (MoDRE), a satellite event of the 29th IEEE International Requirements Engineering Conference. The MoDRE workshop series established a forum where researchers and practitioners can discuss the challenges of Model-Driven Development (MDD) for Requirements Engineering (RE).

Model-driven (software) development languages, tools, and techniques have helped raise the level of abstraction for software development, as well as automate various parts of the software development process. Building on the success of MDD for design and implementation, RE may benefit from MDD techniques when properly balancing flexibility for capturing varied user needs with formal rigidity required for model transformations as well as high-level abstraction with information richness. MoDRE seeks to explore those areas of requirements engineering that have not yet been formalized sufficiently to be incorporated into a model-driven development environment. MoDRE also pursues to investigate how requirements engineering models may benefit from emerging topics in the model-driven community, such as flexible, collaborative, and AI-enabled modeling. MoDRE explores how to consider human values and ethics in RE modeling, how MoDRE can be integrated with DevOps and iterative development, and how MoDRE can contribute to develop AI applications. Reuse of requirements models and management of requirements at runtime become distinct possibilities with MDD and model transformations. However, how requirements engineering may benefit from model-driven development still needs to be explored further.

We look forward to identifying new challenges for MoDRE, discussing on-going work and potential solutions, analyzing the strengths and weaknesses of MDD approaches for RE, fostering stimulating discussions on the topic, and providing opportunities to apply MDD approaches for RE.

The full-day workshop is co-located with the 29th IEEE International Requirements Engineering Conference (RE'21) in Notre Dame, South Bend, USA, on September 20th, 2021. From a total of 11 submissions, 4 full papers and 2 short papers were accepted for publication in the proceedings. The 11th edition of the MoDRE workshop series features a keynote on “Resilience via socio-technical systems: Projecting sustainability impacts during RE” by Professor Birgit Penzenstadler from Chalmers University of Technology, Sweden, and Lappeenranta Lahti University of Technology, Finland.

We would like to thank the members of the program committee who provided valuable feedback to the authors and the authors for submitting their papers and hence making this workshop possible. We are looking forward to an exciting workshop!

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