

Preface of the EMISA 2023 Workshop

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New information technologies such as AI, Digital Twins, Block Chain, Big Data, IoT, etc., enable enterprises to innovate their core activities, from their information systems, via their business processes, to their business models. These innovations pose design and engineering challenges which, in their turn, result in several research challenges for the fields of enterprise modelling and information systems architectures. At the same time, the new information technologies also provide new opportunities to support the work involved in (continuous) design and engineering of enterprises and their information systems. Examples include (IoT based) process and enterprise mining, the use of AI to help in the creation of models, low-code platforms, etc.

EMISA 2023 was the 13. international workshop in a series that provides a key forum for researchers and practitioners in the field on design methods for information systems. The workshop series generally emphasizes the need for a coherent view on this field, fostering integrated approaches that address and relate all relevant aspects of enterprises (e.g., value propositions, business services, business processes, business rules, information systems, IT infrastructures), cross-cutting concerns (e.g. security, privacy, compliance) across stakeholders, designers, engineers, and domain experts.

The workshop was organized by the GI Special Interest Group on Design Methods for Information Systems (GI-SIG EMISA), which provides a forum for researchers from various disciplines who develop and apply methods to support the analysis and design of information systems.

EMISA 2023 involved a working session to discuss future research directions as well as possible future joint (EU, or multilaterally funded) research projects. This session was organized in collaboration with the EMISA and MobIS (Modelling of Business Information Systems) special interests groups of the GI, as well as the IFIP 8.1 working group on Design and Evaluation of Information Systems.

Furthermore, an industrial track Models-at-Work was organized as part of EMISA 2023 to stimulate interaction between practitioners, tool developers, and research.

EMISA 2023 consisted of four types of contributions: PhD research proposals, current research talk proposals, novel direction talk proposals, and models at work cases. We received 14 submissions, which have been reviewed by at least 2 members of the international program

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CEUR Workshop Proceedings (CEUR-WS.org)

committee. This proceeding includes 12 peer-reviewed papers, in the fields of enterprise and conceptual modeling as well as process mining and digital transformation.

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