

## Preface of ER 2021 - Demos and Posters

The ER 2021 Demos and Posters track was part of the 40<sup>th</sup> International Conference on Conceptual Modeling (ER 2021). The track aims to serve as a platform for presenting and discussing novel research ideas, addressing any ER conference topics, and new emerging topics related to conceptual modeling.

We received 14 submissions, each of which was assigned to three program committee members. Based on their reviews, we accepted nine papers. The accepted papers reflect upcoming work and the directions of conceptual modeling research over the next few years. The varied topics in this track demonstrate that the conceptual modeling field is actively exploring new horizons. Every paper deals with an avantgarde topic, be it flexible schemas or augmented reality. Several papers leverage artificial intelligence capabilities. We also recognize the value of past technologies and past conceptual modeling approaches, such as relational databases or entity-relationship diagrams, which are being appropriately applied in new contexts.

The topics addressed by the accepted papers include:

- representing log-based files using a UML variant (Rakhmetova et al.),
- automated schema migration and optimization between different NoSQL data stores (Conrad et al.),
- artificial intelligence-based approach to map heterogeneous data models to a relational model, to take advantage of the ubiquity and maturity of relational databases (Yuan and Lu),
- just-in-time modeling of flexible data to support varied data analytics activities (Chatziantoniou and Kantere),
- JSON schema verification in the context of software interoperability (Attouche et al.),
- application a traditional enterprise modeling language, ArchiMate, to the new context of blockchain systems (Curty et al),
- conceptual modeling reinforced via augmented reality (Muff et al.),
- different approaches to multi-level modeling (by Jeusfield), and
- a tool for selecting better labels for the diagrammatic elements (e.g., entity types), natural language processing techniques (Ternes et al.)

We thank the authors for their contributions to a successful track and the international program committee members and the reviewers (appear below) for their valuable reviews made through EasyChair.

Roman Lukyanenko, HEC Montreal, Canada  
Binny Samuel, University of Cincinnati, USA  
Arnon Strum, Ben-Gurion University of the Negev, Israel  
ER 2021 Demos and Posters, Chairs

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Binny Samuel, University of Cincinnati, USA  
Arnon Strum, Ben-Gurion University of the Negev, Israel

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Yves Wautelet, Katholieke Universiteit Leuven

#### **Additional reviewers**

Benjamin Ternes, University of Hagen  
Henning Dirk Richter, University of Rostock

## **Series Publications**

The publications of the ER Demos and Posters track started in 2017:

2020 in Vienna, Austria as CEUR-WS.org Vol. 2716  
2019 in Salvador, Brazil as CEUR-WS.org Vol. 2469  
2018 in Xi'an, China as LNCS proceedings Vol. 11158  
2017 in Valencia, Spain as CEUR-WS.org Vol. 1979