

ER 2020



November 3–6, 2020 in Vienna, Austria

39th International Conference on Conceptual Modeling

IMPORTANT DATES

Paper abstracts: May 25, 2020

Full papers: June 1, 2020

Author notification: July 15, 2020

Camera-ready papers: Aug 21, 2020

Workshop proposals: Feb 21, 2020

Workshop papers: July 27, 2020

WS author notification: Aug 17, 2020

Camera-ready WS papers: Sep 7, 2020

Tutorial/Panel proposals: July 27, 2020

Forum/Demo/Poster papers: July 27, 2020

F/D/P author notification: Aug 17, 2020

Camera-ready F/D/P papers: Sep 7, 2020

A paper submitted to ER 2020 may not be under review for any other conference or journal during the time it is being considered for ER 2020. Submitted papers must demonstrate awareness of the state-of-the-art literature in conceptual modeling by properly citing relevant papers in the field.



#ERconf20

<https://er2020.big.tuwien.ac.at>

CALL FOR PAPERS

We solicit submission of original research, as well as experience and vision papers, from both researchers and practitioners, welcoming any topic where conceptual modeling is a major theme. Submissions that relate to change in general, and the digital transformation in particular, are especially welcome, since the overall theme of ER 2020 is:

Digital Transformation—Exciting Times for Conceptual Modeling

Topics of interest span the entire spectrum of conceptual modeling including research and practice in areas such as theories of concepts and ontologies underlying conceptual modeling, modeling languages, methods and tools for developing and communicating conceptual models, and techniques for transforming conceptual models into effective implementations.

Submission Guidelines

Since the proceedings will be published by Springer in the LNCS series, authors must submit manuscripts using the LNCS style. See <http://www.springer.de/comp/lncs/authors.html> for style files and details. The page limit for submitted papers (as well as for final, camera-ready papers) is 14. Manuscripts not submitted in the LNCS style or exceeding the page limit will not be reviewed and will be automatically rejected. Springer has provided a [LaTeX template in Overleaf](#) for your convenience.

Submission Link: <https://easychair.org/conferences/?conf=er2020>

Program Chairs

- Gillian Dobbie, University of Auckland, New Zealand
- Ulrich Frank, University of Duisburg-Essen, Germany
- Stephen W. Liddle, Brigham Young University, USA

Topics of Interest

Specific examples of topics of interest include, but are not limited to, conceptual modeling as applied to:

Foundations

- Foundations and Concept Formalization
- Ontological and Cognitive Foundations for Conceptual Modeling
- Multi-level Modeling
- Justification and Evaluation of Models

Data/Object Management

- Data Semantics and Integrity Constraints
- Integration of Conceptual Models and Database Schemas
- Schema Evolution and Management of Database Constraints
- NoSQL and NewSQL Databases
- Big Data and Conceptual Modeling
- Data Warehousing, Data Mining, Business Intelligence and Analytics
- Spatial, Temporal, and Multimedia Aspects in Conceptual Models
- Metadata and Applications
- Semi-structured Data and XML

Engineering

- Agile Development
- Interleaving Modeling and Development
- Domain Specific Conceptual Modeling Languages, Methods and Frameworks
- Requirements Engineering
- Reverse Engineering and Round-Trip Engineering
- Patterns and Reuse
- Methodologies and Tools for Conceptual Design
- Quality and Metrics of Conceptual Models

ER 2020 Awards

There will be two awards given to authors at ER 2020.

- Best Student Paper Award: to be given to the best paper whose first author is a student.
- Best Paper Award: to be given to the best paper.

Business Information Systems

- Enterprise Models
- Enterprise Architectures
- Service-Oriented Architectures
- Business Process Modeling
- Models at Runtime
- Models to Support IT Management
- Modeling Distributed Ledger Systems

Advanced and Cross-Disciplinary Applications

- Economics and Conceptual Models
- Conceptual Models and Machine Learning
- Conceptual Models and Decision Making
- Industry 4.0, Factory of the Future and Internet of Things
- Bioinformatics, Ambient Assistance
- Cyber Security and Privacy
- Role of Conceptual Modeling in Social Networks, Mobile Computing, Deep Learning, Internet of Objects, Serious Games and Pedagogical Models, etc.
- Semantic Web, Cloud Computing, and Web Information Systems
- Information Retrieval, Filtering, Classification, Summarization, and Visualization

Experience

- Empirical Studies of Conceptual Modeling
- Experience Applying Conceptual Modeling