

1. Record Nr.	UNINA9911047805203321
Autore	M. Fonseca Claudenir
Titolo	Advances in Conceptual Modeling : ER 2025 Workshops, FCM, CMLS, LLM4Modeling, OntoCom, and QUAMES, Poitiers, France, October 20–23, 2025, Proceedings. // edited by Claudenir M. Fonseca, Anna Bernasconi, Sergio de Cesare, Ladjel Bellatreche, Oscar Pastor
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-032-08620-5
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (293 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 16190
Altri autori (Persone)	BernasconiAnna De CesareSergio BellatrecheLadjel PastorOscar
Disciplina	005.3
Soggetti	Application software Data structures (Computer science) Information theory Artificial intelligence Computer networks Information technology - Management Software engineering Computer and Information Systems Applications Data Structures and Information Theory Artificial Intelligence Computer Communication Networks Computer Application in Administrative Data Processing Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- FCM. -- Logical Foundations of Conceptual Modelling for Relational and SQL Databases - an introduction. -- Disentangling the schema turn: Restoring the information base to conceptual modelling. -- Representing Autopoiesis and Scanning the Environment in Fractal

Enterprise Model. -- Towards a fundamental theory of modeling discrete systems. -- Towards Specifying "Model". -- CMLS. -- A conceptual model for discovering implicit temporal knowledge in clinical data. -- LLM4Modeling. -- Vibe Modeling: Challenges and Opportunities. -- Model Deepening with Large Language Models: Insights from Exploratory Studies with ChatGPT. -- From ConOps to an Operational Domain Model: Harnessing LLMs for Conceptual Model Design. -- Towards diagram-based data model generation with LLMs. -- OntoCom. -- Unpacking Trust: An Ontological Framework for Information Trustworthiness in Decision-Making. -- QUAMES. -- Towards Model-Driven Testing for Assuring the Quality of Large Language Models. -- Prompt-Guided Evaluation of GPT-4o, Gemini and DeepSeek on UML-to-Java Code Generation.

Sommario/riassunto

This book constitutes the refereed proceedings of the workshops held at the 44th International Conference on Conceptual Modeling, ER 2025, which took place in Poitiers, France, during October 20–23, 2025. The 11 full papers and 2 other papers included in this book were carefully reviewed and selected from 26 submissions. The highly dynamic nature of ER workshops helps shape the future of conceptual modeling and contributes to its impact across diverse domains of knowledge, from life sciences to engineering and business. Five workshops were organized at ER 2025. These include: – Fundamentals of Conceptual Modeling (FCM) – 6th International Workshop on Conceptual Modeling for Life Sciences (CMLS) – 3rd International Workshop on Modeling in the Age of Large Language Models (LLM4Modeling) – 11th International Workshop on Ontologies and Conceptual Modeling (OntoCom) – 6th International Workshop on Quality and Measurement of Model-Driven Software Development (QUAMES).
