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Disciplina	005.1
Soggetti	Software engineering 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
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Nota di contenuto	Invited Paper -- Stochastic LLMs do not Understand Language: Towards Symbolic, Explainable and Ontologically Based LLMs -- The Conceptual Modeling Task -- A Survey of Ethical Reasoning Methods, their

Metamodels, and a Theory on their Application to Conceptual Modelling -- Use of Competency Questions in Ontology Engineering: a Survey -- How Inclusive is Conceptual Modeling? A Systematic Review of Literature and Tools for Disability-aware Conceptual Modeling -- The Meta Level -- A Terminological and Semiotic Review of the Digital Object Concept -- The Ontology for Conceptual Characterization of Ontologies -- ProMoTe: A Data Product Model Template for Industry -- Model-Based Analysis and Implementation -- Using a Conceptual Model in Plug-and-play SQL -- Sanity-Checking Multiple Levels of Classification – A Formal Approach with a ConceptBase Implementation -- A Safari for Deviating GoF Pattern Definitions and Examples on the Web -- Process Mining and Abstraction -- Object-Centric Alignments -- Transforming Event Knowledge Graph to Object-Centric Event Logs: A Comparative Study for Multi-dimensional Process Analysis -- Ontology-Based Abstraction of Bot Models in Robotic Process Automation -- Modeling Events and Processes -- Shards of Knowledge – Modeling Attributions for Event-Centric Knowledge Graphs -- A Characterisation of Ambiguity in BPM -- Dealing with the evolution of event-based choreographies of BPMN fragments: definition and proof of concept -- Conceptual Modeling in Context -- Safety Analysis of Human Robot Collaborations with GRL Goal Models -- A Domain-Specific Visual Modeling Language for Augmented Reality Applications Using WebXR -- An Ontology for Context Modeling in Smart Spaces -- Applications of Conceptual Modeling -- A Reference Meta-Model to Understand DNA Variant Interpretation Guidelines -- A Conceptual Modeling Approach for Risk Assessment and Mitigation in Collision-free UAV Routing for Beyond-the-Visual-Line-of-Sight Flights -- QuantumShare: Towards An Ontology for Bridging the Quantum Divide.

Sommario/riassunto

This book constitutes the refereed proceedings of the 42nd International Conference on Conceptual Modeling, ER 2023, held in Lisbon, Portugal, during November 6-9, 2023. The 21 full papers were carefully reviewed and selected from 121 submissions. Additionally, the book contains 4 keynote speeches and 3 tutorials, and one invited paper corresponding to one of the keynote speeches. The papers cover a broad spectrum of classical and modern topics on conceptual modeling, including research and practice in the theories of concepts and ontologies, techniques for transforming conceptual models into effective implementations, and methods and tools for developing and communicating conceptual models.
