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Nota di contenuto	Conceptual Modeling Meets Artificial Intelligence and Data-Driven Decision Making (CMAI) 2020 -- How to Induce Trust in Medical AI Systems -- Towards Automated Support for Conceptual Model Diagnosis and Repair -- Superimposition: Augmenting Machine Learning Outputs with Conceptual Models for Explainable AI -- Evaluating Tree Explanation Methods for Anomaly Reasoning: A Case Study of SHAP TreeExplainer and TreeInterpreter -- Conceptual Modeling for Life Sciences (CMLS) 2020 -- The Importance of the Temporal Dimension in Identifying Relevant Genomic Variants: a Case Study -- Towards the Generation of a Species-Independent Conceptual Schema of the Genome -- Conceptual Human Emotion Modeling (HEM) -- Towards an Ontology for Tertiary Bioinformatics Research Process -- Using BioPAX-Parser (BiP) to annotate lists of biological entities with pathway data -- Relational Text-type for Biological Sequences --

Conceptual Modeling, Ontologies and (Meta)data Management for Findable, Accessible,Interoperable and Reusable (FAIR) Data (CMOMM4FAIR) 2020 -- Mapping the Web Ontology Language to the OpenAPI Specification -- Evaluating FAIRness of Genomic Databases -- Reusable FAIR Implementation Pro les as Accelerators of FAIR Convergence -- Conceptual Modeling for NoSQL Data Stores (CoMoNoS) 2020 -- Deimos: A Model-based NoSQL Data Generation Language -- Managing Physical Schemas in MongoDB Stores -- JSON Schema Inference Approaches -- Empirical Methods in Conceptual Modeling (EmpER) 2020 -- Empirical evaluation of a new DEMO modelling tool that facilitates model transformations -- Acquiring and sharing the monopoly of legitimate naming in organizations, an application in conceptual modeling -- Replicability and Reproducibility of a Schema Evolution Study in Embedded Databases -- Challenges in Checking JSON Schema Containment over Evolving Real-World Schemas -- Experimental practices for measuring the intuitive comprehensibility of modeling constructs: an example design.

Sommario/riassunto

This book constitutes the refereed proceedings of five workshops symposia, held at the 39th International Conference on Conceptual Modeling, ER 2020, which were supposed to be held in Vienna, Austria, in November 2020, but were held virtually due to the COVID-19 pandemic instead. The 20 papers promote and disseminate research on theories of concepts underlying conceptual modeling, methods and tools for developing and communicating conceptual models, techniques for transforming conceptual models into effective implementations, and the impact of conceptual modeling techniques on databases, business strategies and information systems. The following workshops are included in this volume: First Workshop on Conceptual Modeling Meets Artificial Intelligence and Data-Driven Decision Making (CMAI); First International Workshop on Conceptual Modeling for Life Sciences (CMLS); Second Workshop on Conceptual Modeling, Ontologies and (Meta)data Management for Findable, Accessible, Interoperable and Reusable (FAIR) Data (CMOMM4FAIR); First Workshop on Conceptual Modeling for NoSQL Data Stores (CoMoNoS); and Third International Workshop on Empirical Methods in Conceptual Modeling (EmpER).