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Nota di contenuto	Data Science and Data Management -- Personal Data Markets: A Narrative Review on Influence Factors of the Price of Personal Data -- What's in a (Data) Type? Meaningful Type Safety for Data Science -- Research Data Management in the Image Lifecycle: a Study of Current Behaviors -- Information Search and Analysis -- Towards an Arabic Text Summaries Evaluation Based on AraBERT Model -- A Recommender System for EOSC. Challenges and Possible Solutions -- ERIS: an Approach Based on Community Boundaries to Assess Polarization in Online Social Networks -- Business Process Management

-- Progress Determination of a BPM Tool with Ad-Hoc Changes: An Empirical Study -- Enabling Conformance Checking for Object Lifecycle Processes -- A Framework to Improve the Accuracy of Process Simulation Models -- Analyzing Process-Aware Information System Updates Using Digital Twins of Organizations -- Hybrid Business Process Simulation: Updating Detailed Process Simulation Models Using High-level Simulations -- Business Process Mining -- Towards Event Log Management for Process Mining - Vision and Research Challenges -- Process Mining for Process Improvement - An Evaluation of Analysis Practices -- Data-Driven Analysis of Batch Processing Inefficiencies in Business Processes -- The Analysis of Online Event Streams: Predicting the Next Activity for Anomaly Detection -- Process Mining: A Guide for Practitioners -- Digital Transformation and Smart Life -- How do Startups and Corporations Engage in Open Innovation? An Exploratory Study -- Smart Life: Review of the Contemporary Smart Applications -- Conceptual Modelling and Ontologies -- Conceptual Integration for Social-ecological Systems: an Ontological Approach -- Contratto – A Method for Transforming Legal Contracts into Formal Specifications -- Ontological Foundations for Trust Dynamics: The Case of Central Bank Digital Currency Ecosystems -- Abstracting Ontology-Driven Conceptual Models: Objects, Aspects, Events, and their Parts -- Understanding and Modeling Prevention -- Requirements engineering -- Requirements Engineering for Collaborative Artificial Intelligence Systems: A Literature Survey -- On the Current Practices for Specifying Sustainability Eequirements -- Defining Key Concepts in Software Engineering: The Adoption of the Definition of Feature -- Assisted-Modeling Requirements for Model-Driven Development Tools -- Model-driven Engineering -- Model-driven Production of Data-centric Infographics: an Application to the Impact Measurement Domain -- The B Method Meets MDE: Review, Progress and Future -- Enabling Content Management Systems as an Information Source in Model-Driven projects -- A Global Model-Driven Denormalization Approach for Schema Migration -- State Model Inference Through the GUI using Run-time Test Generation -- Machine Learning Applications -- Autonomous Object Detection using a UAV Platform in the Maritime Environment -- Bosch’s Industry 4.0 Advanced Data Analytics: Historical and Predictive Data Integration for Decision Support -- Benchmarking Conventional Outlier Detection Methods -- Forum -- Handling Temporal Data Imperfections in OWL 2 - Application to Collective Memory Data Entries -- Integrated Approach to Assessing the Progress of Digital Transformation by Using Multiple Objective and Subjective Indicators -- Towards Integrated Model-Driven Engineering Approach to Business Intelligence -- Method for Evaluating Information Security Level in Organisations -- ChouBERT: Pre-training French Language Model for Crowdsensing with Tweets in Phytosanitary Context -- A Conceptual Characterization of Fake News: a Positioning Paper -- Combinations of Content Representation Models for Event Detection on Social Media -- Increasing Awareness and Usefulness of Open Government Data: An Empirical Analysis of Communication Methods -- Toward Digital ERP: A Literature Review -- Trust Model Recommendation Driven by Application Requirements -- Predicting the State of a House using Google Street View -- Towards a Comprehensive BPMN Extension for Modeling IoT-Aware Processes in Business Process Models -- Team Selection using Statistical and Graphical Approaches for Cricket Fantasy Leagues -- PM4Py-GPU: a High-Performance General-Purpose Library for Process Mining -- Interactive Business Process Comparison Using Conformance and Performance Insights - A Tool -- Research Incentives in Academia Leading to Unethical Behavior

-- Assessing the Ethical, Social and Environmental Performance of Conferences -- ANGLEr: A Next-Generation Natural Language Exploratory Framework -- Doctoral Consortium -- Towards a Roadmap for Developing Digital Work Practices: A Maturity Model Approach -- Evolutionary Scriptless Testing -- Scriptless Testing for Extended Reality Systems -- Artificial Intelligence: Impacts of Explainability on Value Creation and Decision Making -- Towards Empirically Validated Process Modelling Education using a BPMN Formalism -- Multi-task Learning for Automatic Event-centric Temporal Knowledge Graph Construction.

Sommario/riassunto

This book constitutes the proceedings of the 16th International Conference on Research Challenges in Information Sciences, RCIS 2022, which took place in Barcelona, Spain, during May 17–20, 2022. It focused on the special theme "Ethics and Trustworthiness in Information Science". The scope of RCIS is summarized by the thematic areas of information systems and their engineering; user-oriented approaches; data and information management; business process management; domain-specific information systems engineering; data science; information infrastructures, and reflective research and practice. The 35 full papers presented in this volume were carefully reviewed and selected from a total 100 submissions. The 18 Forum papers are based on 11 Forum submissions, from which 5 were selected, and the remaining 13 were transferred from the regular submissions. The 6 Doctoral Consortium papers were selected from 10 submissions to the consortium. The contributions were organized in topical sections named: Data Science and Data Management; Information Search and Analysis; Business Process Management; Business Process Mining; Digital Transformation and Smart Life; Conceptual Modelling and Ontologies; Requirements Engineering; Model-Driven Engineering; Machine Learning Applications. In addition, two-page summaries of the tutorials can be found in the back matter.