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Nota di contenuto	Business and Industrial Processes -- Robotic Process Automation in the Automotive Industry -- Lessons Learned from an Exploratory Case Study -- A Framework for Comparative Analysis of Intention Mining Approaches -- Exploring the Challenge of Automated Segmentation in Robotic Process Automation -- Adapting the CRISP-DM Data Mining Process: A Case Study in the Financial Services Domain -- A Method for Modeling Process Performance Indicators Variability integrated to Customizable Processes Models -- Information Security and risk management -- Novel Perspectives and Applications of Knowledge Graph Embeddings: From Link Prediction to Risk Assessment and Explainability -- How FAIR are Security Core Ontologies? A Systematic Mapping Study -- PHIN: A Privacy Protected Heterogeneous IoT Network -- PriGen: Towards Automated Translation of Android Applications' Code to Privacy Captions -- CompLicy: Evaluating the GDPR Alignment of Privacy Policies -- a Study on Web Platforms -- Data and information management -- WEIR-P: An Information Extraction Pipeline for the Wastewater Domain -- Recommendations for Data-Driven Degradation Estimation with Case Studies from Manufacturing and Dry-Bulk Shipping -- Detection of event precursors in social networks: A graphlet-based method -- Developing and Operating Artificial Intelligence Models in Trustworthy Autonomous Systems --

Matching Conservation-Restoration Trajectories: an Ontology-Based Approach -- Domain specific information systems engineering: A Transactional Approach to Enforce Resource Availabilities - Application to the Cloud -- A WebGIS Interface Requirements Modeling Language -- CoV2K: a Knowledge Base of SARS-CoV-2 Variant Impacts -- A language-based approach for predicting Alzheimer Disease severity -- Towards a Digital Maturity Balance Model for Public Organizations -- User-Centred Approaches -- CCOnto: The Character Computing Ontology -- Assessment of Malicious Tweets Impact on Stock Market Prices -- Integrating Adaptive Mechanisms into Mobile Applications Exploiting User Feedback -- Conceptual Modeling Versus User Story Mapping: Which is the Best Approach to Agile Requirements Engineering -- Design and Execution of ETL Process to Build Topic Dimension from User-generated Content -- Data science and decision support -- Predicting process activities and timestamps with Entity-Embeddings Neural Networks -- Data-Driven Causalities for Strategy Maps -- A Novel Personalized Preference-based Approach for Job/Candidate Recommendation -- A Scalable Knowledge Graph Embedding Model for Next Point-of-Interest Recommendation in Tallinn City -- Spatial and Temporal Cross-Validation Approach for Misbehavior Detection in C-IST -- Information systems and their engineering -- Towards an efficient approach to manage graph data evolution: conceptual modelling and experimental assessments -- DISDi: Discontinuous Intervals in Subgroup Discovery -- Building Correct Taxonomies with a Well-Founded Graph Grammar -- Microservice Maturity of Organizations: Towards an assessment framework -- Dealing with Uncertain and Imprecise Time Intervals in OWL 2: A Possibility Theory-Based Approach -- Poster & Demo -- KEOPS: Knowledge ExtractOr Pipeline System -- Socneto: a Scent of Current Network Overview -- STOCK: a User-friendly Stock Prediction and Sentiment Analysis System -- Interoperability in the Footwear Manufacturing Networks and Enablers for Digital Transformation -- SIMPT: Process Improvement Using Interactive Simulation of Time-aware Process Trees -- Digitalization in sports to connect child's sport clubs, parents and kids: simple solution for tackling social and psychological issues -- Open Government Data for Non-Expert Citizens: Understanding Content and Visualizations' Expectations -- Domain Analysis and Geographic Context of Historical Soundscapes: The case of Evora -- Towards a Unified Framework for Computational Trust and Reputation Models for e-Commerce Applications -- Improving Web API usage logging -- Towards a Hybrid Process Modeling Language -- A Metadata-based Event Detection Method using Temporal Herding Factor and Social Synchrony on Twitter Data -- Data and Conceptual model Synchronization in Data-Intensive Domains: the Human Genome Case -- Doctoral Consortium -- Simplified Timed Attack Trees -- A Model-Driven Engineering Approach to Complex Performance Indicators: Towards Self-Service Performance Management (SS-PM) -- Robust and Strongly Consistent Distributed Storage Systems -- The Impact and Potential of Using Blockchain Enabled Smart Contracts in the Supply Chain Application Area.

Sommario/riassunto

This book constitutes the proceedings of the 15th International Conference on Research Challenges in Information Sciences, RCIS 2021, which was planned to take place in Limassol, Cyprus, but had to change to an online event due to the COVID-19 pandemic. The conference took place virtually during May 11-14, 2021. It focused on the special theme "Information Science and Global Crisis". 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 29 full papers and 6 work-in-progress papers presented in this volume were carefully reviewed and selected from 99 submissions. They were organized in topical sections named: Business and Industrial Processes, Information Security and Risk Management, Data and Information Management, Domain-specific Information Systems Engineering, User-Centered Approaches, Data Science and Decision Support, and Information Systems and Their Engineering. The volume also contains 13 poster and demo papers, and 4 doctoral consortium papers. In addition, two-page summaries of tutorials and research project papers can be found in the back matter. .
