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Nota di contenuto	Functional Dependencies in Incomplete Databases With Limited Domains -- Normal Forms of Conditional Knowledge Bases Respecting Entailments and Renamings -- On matrices and K-relations -- Social Consolidations: Rational Belief in a Many-Valued Logic of Evidence and Peerhood -- ASPARTIX-V19 - An Answer-set Programming based System for Abstract Argumentation -- Proper Hierarchies in Polylogarithmic Time and Absence of Complete Problems -- Diversity,

Dependence and Independence -- Towards Probabilistic Reasoning in Type Theory - the Intersection Type Case -- Measuring Inconsistency in a General Information Space -- Parameterised Complexity of Model Checking and Satisfiability in Propositional Dependence Logic -- Utilizing Deep Learning and RDF to Predict Heart Transplantation Survival -- Game Description Logic with Integers: A GDL Numerical Extension -- Craig Interpolation of Epistemic Logics with Distributed Knowledge -- On the dynamics of structured argumentation: Modeling changes in default justification logic -- Logic-based Approach to Incremental Monitoring and Optimization on Strongly Distributed Data Streams -- Realisability of Choreographies -- Schema Optimisation Instead Of (Local) Normalisation -- Strongly Minimal MapReduce Algorithms: A TeraSort Case Study -- Event Sequence Interpretation of Structural Geomodels: A Knowledge-Based Approach for Extracting Tectonic Sequences.

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Symposium on Foundations of Information and Knowledge Systems, FoIKS 2020, held in Dortmund, Germany, in February 2020. The 19 revised full papers presented were carefully reviewed and selected from 33 submissions. The papers address various topics such as big data; database design; dynamics of information; information fusion; integrity and constraint management; intelligent agents; knowledge discovery and information retrieval; knowledge representation, reasoning and planning; logics in databases and AI; mathematical foundations; security in information and knowledge systems; semi-structured data and XML; social computing; the semantic web and knowledge management; and the world wide web.
