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Nota di contenuto	Ontologies and Reasoning -- Handling Impossible Derivations during Stream Reasoning -- Modular Graphical Ontology Engineering Evaluated -- Fast and Exact Rule Mining with AMIE 3 -- A Simple Method for Inducing Class Taxonomies in Knowledge Graphs -- Hybrid Reasoning over Large Knowledge Bases Using On-The-Fly Knowledge Extraction -- Natural Language Processing and Information Retrieval -- Partial Domain Adaptation for Relation Extraction Based on Adversarial Learning -- SASOBUS: Semi-automatic Sentiment Domain Ontology

Building Using Synsets -- Keyword Search over RDF Using Document-centric Information Retrieval Systems -- Entity Linking and Lexico-Semantic Patterns for Ontology Learning -- Semantic Data Management and Data Infrastructures -- Estimating Characteristic Sets for RDF Dataset Profiles Based on Sampling -- Social and Human Aspects of the Semantic Web -- SchemaTree: Maximum-likelihood Property Recommendation for Wikidata -- Machine Learning -- Hyperbolic Knowledge Graph Embeddings for Knowledge Base Completion -- Unsupervised Bootstrapping of Active Learning for Entity Resolution -- Distribution and Decentralization -- Processing SPARQL Aggregates Queries with Web Preemption -- Science of Science -- Embedding-based Recommendations on Scholarly Knowledge Graphs -- Investigating Software Usage in the Social Sciences: A Knowledge Graph Approach -- Fostering Scientific Meta-Analyses with Knowledge Graphs: a Case Study -- Security, Privacy, Licensing and Trust -- SAShA: Semantic-Aware Shilling Attacks on Recommender Systems Exploiting Knowledge Graphs -- Knowledge Graphs -- Entity Extraction from Wikipedia List Pages -- The Knowledge Graph Track at OAEI - Gold Standards, Baselines, and the Golden Hammer Bias -- Detecting Synonymous Properties by Shared Data-driven Definitions -- Entity Summarization with User Feedback -- Incremental Multi-source Entity Resolution for Knowledge Graph Completion -- Building Linked Spatio-Temporal Data from Vectorized Historical Maps -- Integration, Services and APIs -- QAnswer KG: Creating On-Demand Question Answering Systems on Top of RDF Data -- Equivalent Rewritings on Path Views with Binding Patterns -- Resources -- A Knowledge Graph for Industry 4.0 -- MetaLink: A Travel Guide to the LOD Cloud -- Astrea: Automatic Generation of SHACL Shapes from Ontologies -- SemTab 2019: Resources to Benchmark Tabular Data to Knowledge Graph Matching Systems -- VQuAnDa: Verbalization QUestion ANswering DAtaset -- ESBM: An Entity Summarization BenchMark -- GEval: a Modular and Extensible Evaluation Framework for Graph Embedding Techniques -- YAGO 4: A Reason-able Knowledge Base -- In-Use -- On Modeling the Physical World as a Collection of Things: the W3C Thing Description Ontology -- Applying Knowledge Graphs as Integrated Semantic Information Model for the Computerized Engineering of Building Automation Systems -- Supporting Complex Decision Making by Semantic Technologies -- Piveau: A Large-scale Open Data Management Platform Based on Semantic Web Technologies -- StreamPipes Connect: Semantics-Based Edge Adapters for the Industrial IoT.

Sommario/riassunto

This book constitutes the refereed proceedings of the 17th International Semantic Web Conference, ESWC 2020, held in Heraklion, Crete, Greece.* The 39 revised full papers presented were carefully reviewed and selected from 166 submissions. The papers were submitted to three tracks: the research track, the resource track and the in-use track. These tracks showcase research and development activities, services and applications, and innovative research outcomes making their way into industry. The research track caters for both long standing and emerging research topics in the form of the following subtracks: ontologies and reasoning; natural language processing and information retrieval; semantic data management and data infrastructures; social and human aspects of the Semantic Web; machine learning; distribution and decentralization; science of science; security, privacy, licensing and trust; knowledge graphs; and integration, services and APIs. *The conference was heldvirtually due to the COVID-19 pandemic. Chapter ‘Piveau: A Large-scale Oopen Data Management Platform based on Semantic Web Technologies’ is