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-- PhD Symposium. -- Optimisation of Reasoning over Ontologies on Embedded Hardware for Avionics-Context Semantic-Aware to Generate Minimisation of Computation Time and Memory Footprint. -- Computational Approaches for Addressing Problematic Terminology in Museum Catalogues: A Knowledge Graph of Museum Critical Cataloguing Guidelines. -- PERsoNal Genome QUery IN healthcare and clinical practice (PENGQUIN). -- Enhancing Hypoglycemia Prediction in Type 1 Diabetes through Semantic Knowledge Integration and Machine Learning Optimization. -- Knowledge Graph Repair. -- Towards an ontology of data sovereignty and ownership in cyberspace. -- Personalized Query Engine Optimization for Link Traversal-based Query Processing over Structured Decentralized Environments. -- GraphWiseLearn: Personalized Learning through Semantified TEL, Leveraging QA-Enhanced LLM-generated Content . -- AIREG: Enhanced Educational Recommender System with Large Language Models and Knowledge Graphs. -- Explaining misleading claims using graphs of entities. -- Enabling Efficient and Semantic-Aware Constraint Validation in Knowledge Graphs. -- Knowledge Graph-enhanced Vision-to-Language Multimodal Models for Radiology Report Generation. -- AI supported Knowledge Graph Design & Generation. -- Hybridization of Description Logics and Logic Programming. -- Extended best papers from the Workshops. -- Analysis of Automated Tools for FAIRness Evaluation: A Literature Perspective. -- An Extended Evaluation of Single-Label Multi-Modal Field of Research Classification Using a Taxonomy-Based Metric. -- Challenges and Opportunities of LLM-augmented Semantic Model Creation for Dataspaces. -- Versioning Virtual Reconstruction Hypotheses: Revealing Counterfactual Trajectories of the Fallen Voussoirs of Notre-Dame de Paris using Reasoning and 2D/3D Visualization. -- Designing an Ontology Network for Digital Product Passports. -- Explainable Moral Values: a neuro-symbolic approach to value classification. -- Static and Adaptive Planning with WoT TD by Generating Python Objects as Intermediary Representations using Large Language Models.

Sommario/riassunto

This two volume set constitutes the refereed proceedings of the International Conference, ESWC 2024 Satellite Events, held in Hersonissos, Crete, Greece during May 26–30, 2024. The 67 papers presented were carefully reviewed and selected from 128 submissions. This year conference aimed at acknowledging recent developments in AI with a special tagline, “Fabrics of Knowledge: Knowledge Graphs and Generative AI”. To reflect this year’s special topic, the satellite events of ESWC 2024 featured a Special Track on Large Language Models for Knowledge Engineering, in addition to the poster and demo session, the PhD symposium, the industry track, project networking, and workshops and tutorials. .
