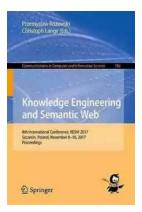
Knowledge Engineering And Semantic Web: Unlocking the Power of Data

Are you ready to dive into the fascinating world of Knowledge Engineering and Semantic Web? Brace yourself for a mind-blowing journey that will completely change the way we extract, interpret, and utilize information.

Knowledge engineering is the process of designing and developing systems that can intelligently use knowledge to solve complex problems. It involves combining various branches of artificial intelligence, cognitive science, and computer science to unlock the vast potential of data.

The Semantic Web, on the other hand, is an extension of the World Wide Web that aims at making online content more meaningful and interconnected. It enables machines to understand, interpret, and process information in a way that humans do.



Knowledge Engineering and Semantic Web: 8th International Conference, KESW 2017, Szczecin, Poland, November 8-10, 2017, Proceedings (Communications in Computer and Information Science Book 786)

by Christoffer Petersen(1st ed. 2017 Edition, Kindle Edition)

🚖 🚖 🚖 🚖 4.6 out of 5	
Language	: English
File size	: 12055 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 377 pages



Understanding Knowledge Engineering

Knowledge engineering is based on the idea that knowledge can be codified in computer systems, allowing machines to think and act intelligently. It involves creating knowledge bases, ontologies, and rule-based systems that process large amounts of data to generate meaningful insights.

One of the key components of knowledge engineering is knowledge representation. By using formal languages such as logic, ontology languages, and semantic web technologies, knowledge engineers can model information in a structured manner that is easily understandable by both humans and machines.

Expert systems, a popular application of knowledge engineering, are designed to mimic human expertise in specific domains. These systems leverage knowledge bases and inference mechanisms to provide intelligent solutions and recommendations.

Another area where knowledge engineering plays a critical role is in natural language processing (NLP). By using linguistic knowledge, machine learning techniques, and semantic analysis, NLP systems can understand and generate human-like responses.

The Power of the Semantic Web

The Semantic Web takes the concept of knowledge engineering to a whole new level. It aims to transform the web from a collection of unstructured documents into a giant web of interconnected data, where machines can seamlessly understand and process information.

At the core of the Semantic Web lies the Resource Description Framework (RDF),which enables the representation of knowledge in a standardized way. RDF makes it possible to create meaningful relationships between entities, making data more accessible and useful.

Linked Data is a fundamental principle of the Semantic Web, where different data sources are linked together to create a web of interconnected information. This enables machines to navigate through the information space, discovering new insights and connections.

Ontologies, another crucial aspect of the Semantic Web, provide a formal description of concepts and relationships within a specific domain. By using ontologies, computers can understand the meaning behind the data and make intelligent inferences.

Applications of the Semantic Web are vast and diverse. From healthcare and finance to e-commerce and education, the Semantic Web promises to revolutionize the way we interact with information and make informed decisions.

The Future of Knowledge Engineering and the Semantic Web

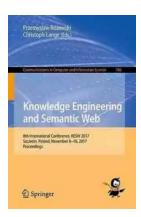
The combined power of knowledge engineering and the Semantic Web opens up endless possibilities for innovation and discovery. As technology advances, we can expect these fields to play an increasingly significant role in various domains.

Imagine a future where machines can understand and interpret medical records, assisting doctors in accurate diagnoses and treatment recommendations. Or a world where personalized recommendations are generated based on a deep understanding of individual preferences and interests. With the exponential growth of data, knowledge engineering and the Semantic Web become more crucial than ever. By leveraging the power of machine learning and artificial intelligence, we can unlock valuable insights, make better decisions, and pave the way for a more intelligent and interconnected world.

Knowledge engineering and the Semantic Web shape the foundation of a datadriven society. They enable us to harness the power of information in unprecedented ways, revolutionizing industries and unlocking new frontiers of exploration.

As we continue to progress in the digital age, the potential for knowledge engineering and the Semantic Web is limitless. Embracing these technologies and understanding their potential impact will be critical for staying ahead in an increasingly interconnected and knowledge-driven world.

So, are you ready to unlock the power of data and embark on an extraordinary journey into knowledge engineering and the Semantic Web? Fasten your seatbelts and get ready to witness the future unfold before your eyes!



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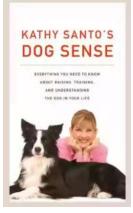
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This book constitutes the refereed proceedings of the 8th International Conference on Knowledge Engineering and the Semantic Web, KESW 2017, held Szczecin, Poland, in November 2017.

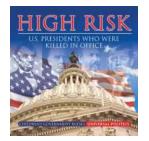
The 16 full papers presented were carefully reviewed and selected from 58 submissions.

The papers are organized in topical sections on natural language processing; knowledge representation and reasoning; ontologies and controlled vocabularies; scalable data access and storage solutions; semantic Web and education; linked data; semantic technologies in manufacturing and business.



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