

# Graph Based Knowledge Representation Computational Foundations Of Conceptual Graphs Advanced Information And Knowledge Processing

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In summary, this is a theoretical book for a graph-based approach to knowledge representation. It presents it rigorously, from bottom to top. A number of detailed algorithms presented in the book may serve as good references for designing a variety of AI systems, such as database mining and logic reasoning.

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## Graph Based Knowledge Representation Computational ...

Knowledge representation and reasoning (KR<sup>2</sup>, KR&R) is the field of artificial intelligence (AI) dedicated to representing information about the world in a form that a computer system can utilize to solve complex tasks such as diagnosing a medical condition or having a dialog in a natural language. Knowledge representation incorporates findings from psychology about how humans solve problems ...

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Graph-based Knowledge Representation: Computational Foundations of Conceptual Graphs (Advanced Information and Knowledge Processing) Michel Chein; Marie-Laure Mugnier Published by Springer (2010)

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A conceptual graph (CG) is a formalism for knowledge representation. In the first published paper on CGs, John F. Sowa (Sowa 1976) used them to represent the conceptual schemas used in database systems. The first book on CGs (Sowa 1984) applied them to a wide range of topics in artificial intelligence, computer science, and cognitive science.

### **Conceptual graph - Wikipedia**

Knowledge Graphs (KGs), e.g., Freebase (Bol-lacker et al.,2008) and DBPedia (Auer et al., 2007), are stores of relational facts, which are crucial for various kinds of tasks, such as ques- tion answering and information retrieval. KGs are structured as triples of head and tail entities along with the relation that holds between them.

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