

### **principles of knowledge representation pdf**

Principles of Knowledge Representation and Reasoning Albert-Ludwigs-Universität Freiburg  
Bernhard Nebel, Stefan Edelkamp, and Julien Huu © Winter Semester 2012/2013

### **Principles of Knowledge Representation and Reasoning**

KRR Nebel, Edelkamp, Ragni Organization Motivation Principles of Knowledge Representation and Reasoning  
Introduction Bernhard Nebel, Stefan Edelkamp, and Marco Ragni

### **Principles of Knowledge Representation and Reasoning**

An example of declarative knowledge representation and procedural knowledge representation can be seen in figure 2. Fig. 2. Example of declarative and procedural knowledge. Another important distinction is between structured and unstructured knowledge, since this has a strong implication on our reasoning processes.

### **A General Knowledge Representation Model of Concepts**

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### **Principles of Knowledge Representation and Reasoning**

Principles of Knowledge Representation and Reasoning Description Logics { Decidability and Complexity Bernhard Nebel, Stefan Edelkamp, and Marco Ragni Albert-Ludwigs-Universität at Freiburg July 19, 2010. KRR Nebel, Edelkamp, Ragni Decidability & Undecidability Polynomial Cases Complexity of ALC Subsumption Expressive Power vs.

### **Principles of Knowledge Representation and Reasoning**

Principles of Knowledge Representation and Reasoning: Proceedings of the Fourteenth International Conference (KR2014) Edited by Chitta Baral, Giuseppe De Giacomo, and Thomas Eiter. Vienna, Austria, July 20-24, 2014. Published by The AAAI Press, Palo Alto, California. This proceedings is also available in book format.

### **Principles of Knowledge Representation and Reasoning**

Principles of Knowledge Representation. He is also head of the interest group of nonmonotonic reasoning of the German Gesellschaft für Informatik. His main research interests are knowledge representation, in particular nonmonotonic reasoning, preference handling, reasoning about action, models argumentation and extended logic programming.

### **The Principles of Knowledge Representation**

Requires some formalism - to what we represent ; Thus, knowledge representation can be considered at two levels : (a) knowledge level at which facts are described, and (b) symbol level at which the representations of

the objects, defined in terms of symbols, can be manipulated in the programs.

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Expert Systems: Principles and Programming, Fourth Edition 2 Objectives

- Introduce the study of logic
- Learn the difference between formal logic and informal logic
- Learn the meaning of knowledge and how it can be represented

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