Knowledge-based Configuration: From Research to Business Cases

Alexander Felfernig, Lothar Hotz, Claire Bagley, Juha Tiihonen

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Knowledge-based Configuration incorporates knowledge representation formalisms to capture complex product models and reasoning methods to provide intelligent interactive behavior with the user. This book represents the first time that corporate and academic worlds collaborate integrating research and commercial benefits of knowledge-based configuration. Foundational interdisciplinary material is provided for composing models from increasingly complex products and services. Case studies, the latest research, and graphical knowledge representations that increase understanding of knowledge-based configuration provide a toolkit to continue to push the boundaries of what configurators can do and how they enable companies and customers to thrive.

- Includes detailed discussion of state-of-the art configuration knowledge engineering approaches such as automated testing and debugging, redundancy detection, and conflict management
- Provides an overview of the application of knowledge-based configuration technologies in the form of real-world case studies from SAP, Siemens, Kapsch, and more
- Explores the commercial benefits of knowledge-based configuration technologies to business sectors from services to industrial equipment
- Uses concepts that are based on an example personal computer configuration knowledge base that is represented in an UML-based graphical language

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