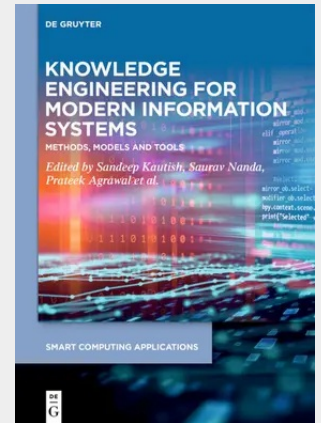


Knowledge Engineering for Modern Information Systems

Methods, Models and Tools

Knowledge Engineering (KE) is a field within artificial intelligence that develops knowledgebased systems. KE is the process of imitating how a human expert in a specific domain would act and take decisions. It contains large amounts of knowledge, like metadata and information about a data object that describes characteristics such as content, quality, and format, structure and processes. Such systems are computer programs that are the basis of how a decision is made or a conclusion is reached. It is having all the rules and reasoning mechanisms to provide solutions to real-world problems. This book presents an extensive collection of the recent findings and innovative research in the information system and KE domain. Highlighting the challenges and difficulties in implementing these approaches, this book is a critical reference source for academicians, professionals, engineers, technology designers, analysts, undergraduate and postgraduate students in computing science and related disciplines such as Information systems, Knowledge Engineering, Intelligent Systems, Artificial Intelligence, Cognitive Neuro - science, and Robotics. In addition, anyone who is interested or involved in sophisticated information systems and knowledge engineering developments will find this book a valuable source of ideas and guidance.

The book series "Smart Computing Applications" provides a platform for researchers, academicians and practitioners to exchange ideas on recent theoretical and applied data science and computing technologies research, with a particular attention to the possible applications of such technologies in the industry, especially in the field of mechanical and industrial engineering. This series serves as a valuable resource for graduate, postgraduate, doctoral students, researchers, academicians and industry professionals.



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