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TMRF e-Book on Advanced Knowledge Based Systems Models, Applications and Research Trends

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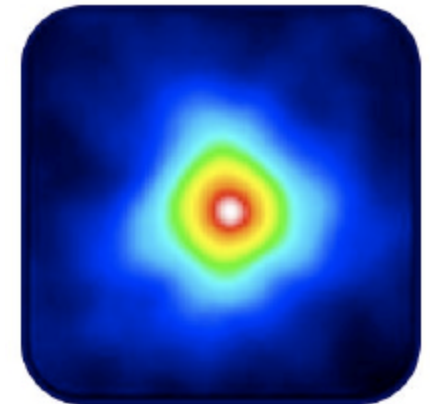
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e-Book on Advanced Knowledge Based Systems Models, Applications and Research Trends

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TMRF e-Book Series

Technomathematics Research
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Kolhapur, India

TMRF e-Book
on
**Advanced Knowledge Based Systems
Models, Applications and Research
Trends**

INTRODUCTION

Knowledge Based Systems (KBS) are Artificial Intelligence based tools that work on knowledge base for effective decision making in more human oriented way using the expert knowledge stored in it. The rapid development of technology in both hardware and software lead towards high degree of expectations from the computing support provided through information and communication technology. In this situation only the data and information processing is not sufficient to quench the thirst of users. KBS use has already been started and researchers are traversing the field of advanced computing models, techniques and research trends of the KBS.

PURPOSE

The objective of this e-book is to cater the need for an edited collection of articles in the area of KBS and to give a comprehensive view of most recent advances from theory and practice. The e-book aims to provide relevant theoretical frameworks and latest empirical research findings in the field of KBS such as connectionist and symbolic KBS, knowledge management, data mining, semantic web, grid environment, network security, etc.

TARGET AUDIENCE

This is a reference book for students, researchers and professionals working in the field of knowledge based systems. The eBook will assist academic and professional organizations in the private and public sector as a foundation for decision-making.

TOPICS

Chapters on the following topics are solicited, with suggestions about their contents listed as subbullets. However, variant and alternative submissions of high-quality chapters in advanced knowledge based systems will be equally considered.

- Soft computing and hybrid systems
 - o Connectionist systems
 - o Fuzzy and neuro-fuzzy systems
 - o Evolutionary & other bio-inspired systems
- Data and knowledge engineering
 - o Data mining and information retrieval
 - o Database, model base and knowledge base integration
- Interactive systems
 - o Intelligent interfaces and natural language
 - o Intelligent tutoring system
 - o Explanation generation system
- KBS development and engineering
 - o Knowledge acquisition, representation and KBS development life cycle
 - o Knowledge management
- Agent based systems
 - o Intelligent agents
 - o Multiagent systems
 - o Self-evolving and self-organizing agents
- Security and network management
 - o Intrusion detection
 - o Routing algorithms
 - o Intelligent protocols
- Web and grid based systems
 - o Grid and cloud computing
 - o Intelligent middle ware services
 - o Semantic web
- Other applications
 - o Diagnostic and advisory systems
 - o e-Commerce
 - o e-Education

SUBMISSIONS OF PAPERS

Researchers and practitioners are invited to submit chapter proposals on or before May 20, 2009 a 2-3 page chapter proposal clearly explaining the mission and concerns of his or her proposed chapter. Authors of accepted proposals will be notified by May 31, 2009 about the status of their proposals and sent chapter guidelines. Full chapters (20-25 pages as per the e-Book format) are expected to be submitted by June 30, 2009. All submitted chapters will be reviewed on a double-blind review basis.

IMPORTANT DATES

<i>May 30, 2009:</i>	<i>Proposal Submission (extended) Deadline</i>
<i>June 05, 2009:</i>	<i>Notification of Acceptance</i>
<i>July 30, 2009:</i>	<i>Full Chapter Submission Deadline</i>
<i>August 31, 2009:</i>	<i>Review Result Returned</i>
<i>September 30, 2009:</i>	<i>Revised Chapter Submission Deadline</i>
<i>October 15, 2009:</i>	<i>Final Acceptance Notification</i>
<i>October 30, 2009:</i>	<i>Final Chapter Submission Deadline</i>
<i>November 30, 2009:</i>	<i>e-Publication</i>

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