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Transdisciplinary Advancements in Cognitive Mechanisms and Human Information Processing

Yingxu Wang (University of Calgary, Canada)

Cognitive informatics is a multidisciplinary field that acts as the bridge between natural science and information science. Specifically, it investigates the potential applications of information processing and natural intelligence to science and engineering disciplines.

Transdisciplinary Advancements in Cognitive Mechanisms and Human Information Processing examines innovative research in the emerging, multidisciplinary field of cognitive informatics. Researchers, practitioners and students can benefit from discussions of the connections between natural science and informatics that are investigated in this fundamental collection of cognitive informatics research. This book provides information on the interrelation of the multidisciplinary research area of Cognitive Informatics and the transdisciplinary study of Natural Intelligence.

Topics Covered:
- Agent technologies
- Bioinformatics
- Cognitive processes of the brain
- Computational intelligence
- Gene analysis
- Human factors in systems
- Knowledge engineering
- Language acquisition
- Neural signal interpretation
- Perception and consciousness
- Reasoning and inferences
- Visual information interpretation

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