

《Ambient Intelligence》

图书基本信息

书名：《Ambient Intelligence for Scientific Discovery科学发现的环境智能》

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内容概要

Many difficult scientific discovery tasks can only be solved in interactive ways, by combining intelligent computing techniques with intuitive and adaptive user interfaces. It is inevitable to use human intelligence in scientific discovery systems: human eyes can capture complex patterns and relationships, along with detecting the exceptional cases in a data set; the human brain can easily manipulate perceptions to make decisions. Ambient intelligence is about this kind of ubiquitous and autonomous human interaction with information. Scientific discovery is a process of creative perception and communication, dealing with questions like: how do we significantly reduce information while maintaining meaning, or how do we extract patterns from massive data and growing data resources. Originating from the SIGCHI Workshop on Ambient Intelligence for Scientific Discovery, this state-of-the-art survey is organized in three parts: new paradigms in scientific discovery, ambient cognition, and ambient intelligence systems. Many chapters share common features such as interaction, vision, language, and biomedicine.

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书籍目录

Part I: New Paradigms in Scientific Discovery Science at the Speed of Thought Computational Biology and Language Interactive Comprehensible Data Mining Scientific Discovery Within Data Streams Part II: Ambient Cognition Shape as Memory Storage Spatial Cues in 3D Visualization Textual Genre Analysis and Identification Cognitive Artifacts in Complex WorkPart III : Ambient Intelligence Systems Multi-modal Interaction in Biomedicine Continuous Body Monitoring Ambient Diagnostics Wireless Local Area Network Positioning Behavior-Based Indoor Navigation Ambient Intelligence Through Agile AgentsAuthor Index

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