



Man-Machine Dialogue: Design and Challenges (Computer Engineering (Wiley))

Frederic Landragin

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This book summarizes the main problems posed by the design of a man-machine dialogue system and offers ideas on how to continue along the path towards efficient, realistic and fluid communication between humans and machines.

A culmination of ten years of research, it is based on the author's development, investigation and experimentation covering a multitude of fields, including artificial intelligence, automated language processing, man-machine interfaces and notably multimodal or multimedia interfaces.

Contents

Part 1. Historical and Methodological Landmarks

1. An Assessment of the Evolution of Research and Systems.
2. Man-Machine Dialogue Fields.
3. The Development Stages of a Dialogue System.
4. Reusable System Architectures.

Part 2. Inputs Processing

5. Semantic Analyses and Representations.
6. Reference Resolution.
7. Dialogue Acts Recognition.

Part 3. System Behavior and Evaluation

8. A Few Dialogue Strategies.
9. Multimodal Output Management.
10. Multimodal Dialogue System Assessment.

About the Authors

Frédéric Landragin is a computer science engineer and has a PhD from the University of Lorraine, France. He is currently in charge of linguistics research for the French National Center for Scientific Research (CNRS). His studies focus on the analysis and modeling of language interpretation. Man-machine dialogue is one of the applications of this research.

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