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Soggetti	Signal processing Image processing Speech processing systems User interfaces (Computer systems) Computational linguistics Pattern perception Signal, Image and Speech Processing User Interfaces and Human Computer Interaction Computational Linguistics Pattern Recognition
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	DigiSami and Digital Natives: Interaction Technology for the North Sami Language -- A Comparative Study of Text Preprocessing Techniques for Natural Language Call Routing -- Compact and Interpretable Dialogue State Representation with Genetic Sparse Distributed Memory -- Incremental Human-machine Dialogue Simulation -- Active Learning for Example-based Dialog Systems -- Question Selection based on Expected Utility to Acquire Information through Dialogue -- Separating Representation, Reasoning, and Implementation for Interaction Management: Lessons from Automated Planning -- SimpleDS: A Simple Deep Reinforcement Learning Dialogue System -- Breakdown Detector for Chat-oriented Dialogue -- User Involvement in Collaborative Decision-Making Dialog Systems -- Natural Language Dialog System Considering Speaker's Emotion Calculated from Acoustic Features --

Salient Cross-lingual Acoustic and Prosodic Features for English and German Emotion Recognition -- Entropy-Driven Dialog for Topic Classification: Detecting and Tackling Uncertainty -- Evaluation of Question-Answering System about Conversational Agent's Personality -- Fisher Kernels on Phase-based Features for Speech Emotion Recognition -- Internationalisation and Localisation of Spoken Dialogue Systems .

Sommario/riassunto

This book explores novel aspects of social robotics, spoken dialogue systems, human-robot interaction, spoken language understanding, multimodal communication, and system evaluation. It offers a variety of perspectives on and solutions to the most important questions about advanced techniques for social robots and chat systems. Chapters by leading researchers address key research and development topics in the field of spoken dialogue systems, focusing in particular on three special themes: dialogue state tracking, evaluation of human-robot dialogue in social robotics, and socio-cognitive language processing. The book offers a valuable resource for researchers and practitioners in both academia and industry whose work involves advanced interaction technology and who are seeking an up-to-date overview of the key topics. It also provides supplementary educational material for courses on state-of-the-art dialogue system technologies, social robotics, and related research fields.
