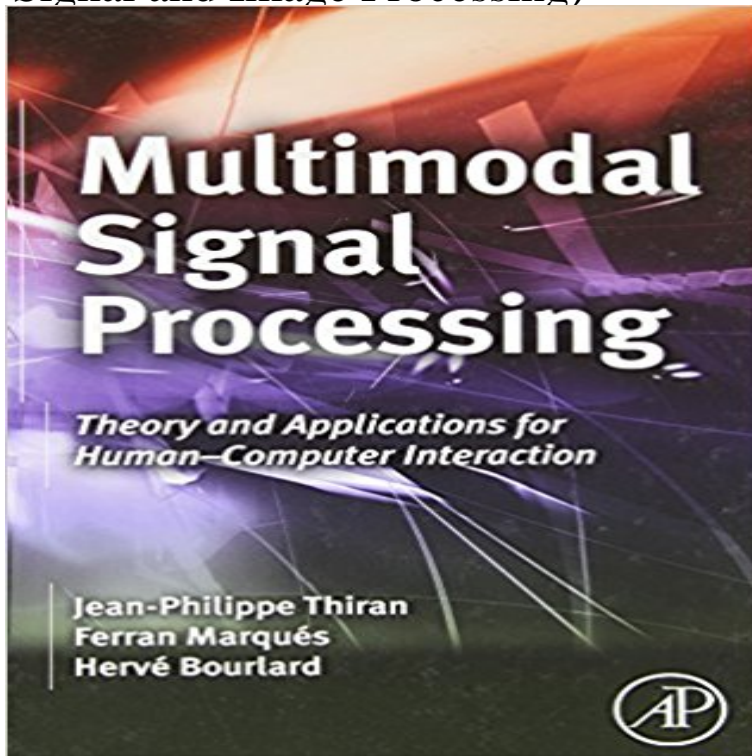


Multimodal Signal Processing: Theory and applications for human-computer interaction (Eurasip and Academic Press Series in Signal and Image Processing)



Presents state-of-art methods for multimodal signal processing, analysis, and modeling. Contains numerous examples of systems with different modalities combined. Describes advanced applications in multimodal Human-Computer Interaction (HCI) as well as in computer-based analysis and modelling of multimodal human-human communication scenes. Multimodal signal processing is an important research and development field that processes signals and combines information from a variety of modalities: speech, vision, language, text, which significantly enhance the understanding, modelling, and performance of human-computer interaction devices or systems enhancing human-human communication. The overarching theme of this book is the application of signal processing and statistical machine learning techniques to problems arising in this multi-disciplinary field. It describes the capabilities and limitations of current technologies, and discusses the technical challenges that must be overcome to develop efficient and user-friendly multimodal interactive systems. With contributions from the leading experts in the field, the present book should serve as a reference in multimodal signal processing for signal processing researchers, graduate students, R&D engineers, and computer engineers who are interested in this emerging field. Presents state-of-art methods for multimodal signal processing, analysis, and modeling. Contains numerous examples of systems with different modalities combined. Describes advanced applications in multimodal Human-Computer Interaction (HCI) as well as in computer-based analysis and modelling of multimodal human-human communication scenes.

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