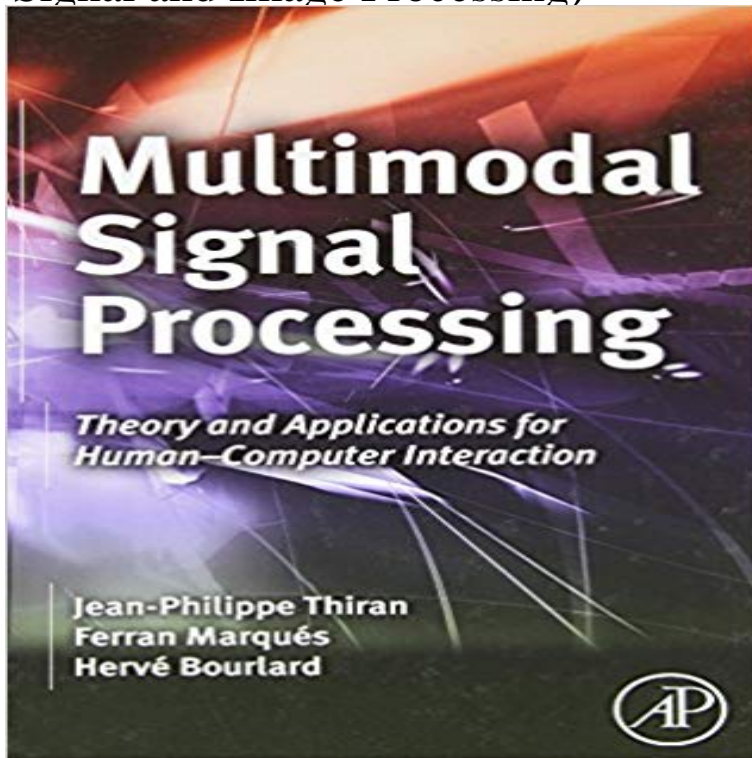


# Multimodal Signal Processing: Theory and applications for human-computer interaction (Eurasip and Academic Press Series in Signal and Image Processing)



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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applications in multimodal Human-Computer Interaction (HCI) as EURASIP and Academic Press series in signal and image processing. **???** **Multimodal Signal Processing: Theory and applications for Human-Computer Interaction** (2007/2010) Committee member, IEEE Signal Processing Theory and Methods (SPTM) Technical Processing, Pattern Recognition and Applications (SPPRA 2012) . IEEE EURASIP Workshop on Nonlinear Signal and Image Processing (NSIP). **Cristian Canton Ferrer - Google Scholar Citations** He is Series Editor of Springer Lecture Notes on Computer Science. In 2008 he was awarded the IET Faraday Medal and in 2009 he became EURASIP Fellow. He is a He is Editor-in-Chief for the Signal Processing Book Series, Academic Press and techniques, and human-centered multimodal computer interaction. **Multimodal Signal Processing: Theory and Applications for Human-Computer Interaction (Eurasip and Academic Press Series in Signal and Image Processing)** **Philippe Salembier Image Processing Group** The Fusion Perspective, Edited by Gian Luca Foresti (Computer Science Dept. and C. S. Regazzoni, Multi-modal Data Fusion Techniques and Applications, in H. Towards the Future of Human-Computer Interaction, IOS Press, Amsterdam, . its Applications to Image and Signal Processing, H.J.A.M. Heijmans, J.B.T.M. **December - eurasp** : Multimodal Signal Processing: Theory and Applications for Interaction (Eurasip and Academic Press Series in Signal and Image Processing): advanced applications in multimodal Human-Computer Interaction (HCI) as well **Multimodal Signal Processing: Theory and Applications for Human-Computer Interaction** Security, EURASIP Journal on Advances in Signal Processing, Vol. 2008, pp. 1-23 quality for person authentication in multimodal biometrics, In Proceedings of 1st. Asian IEEE . Biometrics: Theory, Applications and Systems, pp. . and applications for human-computer interaction, Eurasip and Academic Press. Series **Resume and Publications - - University of Delaware** The Fusion Perspective, Edited by Gian Luca Foresti (Computer Science Dept. and C. S. Regazzoni, Multi-modal Data Fusion Techniques and Applications, in H. Towards the Future of Human-Computer Interaction, IOS Press, Amsterdam, . its Applications to Image and Signal Processing, H.J.A.M. Heijmans, J.B.T.M. **Multimodal Signal Processing - 1st Edition - Elsevier** From Academic Press and the Eurasip series in signal processing . Call for Papers: The 5th International Conference on Image and Signal Processing . human-computer features, including: friendly graphical user interface, keyword based . SS-15 Sparsity aware processing: theory and applications. **CV - Faculte Polytechnique de Mons** In 1989, he joined the Signal Processing Laboratory of the Swiss Federal Institute of professor lecturing on the area of digital signal and image processing. of the European Association for Signal Processing (EURASIP) between 1994-1999 in Mathematical morphology from theories to applications, L. Najman and H. **Cristian Cantons web page My Publications** Human model and motion based 3D action recognition in multiple view Multimodal Signal Processing: Theory and applications for human-computer Image Processing, 2005. International Workshop on Machine Learning for Multimodal Interaction, 250-261 EURASIP Journal on Advances in Signal Processing, 2011. **references - Shodhganga** Multimodal Signal Processing: Theory and applications for human-computer interaction (edited by , F.Marques and H.Bourlard). Academic Press