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Nota di contenuto	Non-Linear and Non-Conventional Techniques -- Phase-Based Methods for Voice Source Analysis -- Some Experiments in Audio-Visual Speech Processing -- Exploiting Nonlinearity in Adaptive Signal Processing -- Speech Synthesis -- Mixing HMM-Based Spanish Speech Synthesis with a CBR for Prosody Estimation -- Objective and Subjective Evaluation of an Expressive Speech Corpus -- Speaker Recognition -- On the Usefulness of Linear and Nonlinear Prediction Residual Signals for Speaker Recognition -- Multi Filter Bank Approach for Speaker Verification Based on Genetic Algorithm -- Speaker Recognition Via Nonlinear Phonetic- and Speaker-Discriminative Features -- Perceptron-Based Class Verification -- Speech Recognition -- Manifold Learning-Based Feature Transformation for Phone Classification -- Word Recognition with a Hierarchical Neural Network -- Hybrid Models for Automatic Speech Recognition: A Comparison of Classical ANN and Kernel Based Methods -- Towards Phonetically-Driven Hidden Markov Models: Can We Incorporate Phonetic Landmarks in HMM-Based ASR? -- A Hybrid Genetic-Neural Front-End Extension for Robust Speech Recognition over Telephone Lines -- Efficient Viterbi Algorithms for Lexical Tree Based Models -- Speech Analysis -- Non-stationary Self-consistent Acoustic Objects as Atoms of Voiced Speech -- The Hartley

Phase Cepstrum as a Tool for Signal Analysis -- Voiced Speech Analysis by Empirical Mode Decomposition -- Estimation of Glottal Closure Instances from Speech Signals by Weighted Nonlinear Prediction -- Quantitative Perceptual Separation of Two Kinds of Degradation in Speech Denoising Applications -- Exploitation of non-linear techniques -- An Efficient VAD Based on a Generalized Gaussian PDF -- Estimating the Dispersion of the Biometric Glottal Signature in Continuous Speech -- Trajectory Mixture Density Networks with Multiple Mixtures for Acoustic-Articulatory Inversion -- Application of Feature Subset Selection Based on Evolutionary Algorithms for Automatic Emotion Recognition in Speech.

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Sommario/riassunto

This book constitutes the thoroughly refereed postproceedings of the International Conference on Non-Linear Speech Processing, NOLISP 2007, held in Paris, France, in May 2007. The 24 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book. The papers are organized in topical sections on nonlinear and nonconventional techniques, speech synthesis, speaker recognition, speech recognition, speech analysis, and exploitation of non-linear techniques.

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