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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Dealing with Nonlinearities in Speech Signals -- Some Notes on Nonlinearities of Speech -- Nonlinear Speech Processing: Overview and Possibilities in Speech Coding -- Signal Processing in a Nonlinear, NonGaussian, and Nonstationary World -- Acoustic-to-Articulatory Modeling of Speech Phenomena -- The Analysis of Voice Quality in Speech Processing -- Identification of Nonlinear Oscillator Models for Speech Analysis and Synthesis -- Speech Modelling Based on Acoustic-to-Articulatory Mapping -- Data Driven and Speech Processing Algorithms -- Underdetermined Blind Separation of Speech Signals with Delays in Different Time-Frequency Domains -- Data Driven Approaches to Speech and Language Processing -- Cepstrum-Based Harmonics-to-Noise Ratio Measurement in Voiced Speech -- Predictive Connectionist Approach to Speech Recognition -- Modeling Speech Based on Harmonic Plus Noise Models -- Algorithms and Models Based on Speech Perception Mechanisms -- Text Independent Methods for Speech Segmentation -- Nonlinear Adaptive Speech Enhancement Inspired by Early Auditory Processing -- Perceptive, Non-linear Speech

Processing and Spiking Neural Networks -- Task Oriented Speech Applications -- An Algorithm to Estimate Anticausal Glottal Flow Component from Speech Signals -- Non-linear Speech Feature Extraction for Phoneme Classification and Speaker Recognition -- Segmental Scores Fusion for ALISP-Based GMM Text-Independent Speaker Verification -- On the Usefulness of Almost-Redundant Information for Pattern Recognition -- An Audio-Visual Imposture Scenario by Talking Face Animation -- Cryptographic-Speech-Key Generation Using the SVM Technique over the lp-Cepstral Speech Space -- Nonlinear Speech Features for the Objective Detection of Discontinuities in Concatenative Speech Synthesis -- Signal Sparsity Enhancement Through Wavelet Transforms in Underdetermined BSS -- A Quantitative Evaluation of a Bio-inspired Sound Segregation Technique for Two- and Three-Source Mixtures -- Application of Symbolic Machine Learning to Audio Signal Segmentation -- Analysis of an Infant Cry Recognizer for the Early Identification of Pathologies -- Graphical Models for Text-Independent Speaker Verification -- An Application to Acquire Audio Signals with ChicoPlus Hardware -- Speech Identity Conversion -- Robust Speech Enhancement Based on NPHMM Under Unknown Noise.