



# Nonlinear Speech Modeling and Applications: Advanced Lectures and Revised Selected Papers (Lecture Notes in Computer Science)

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This volume contains invited and contributed papers presented at the 9th International Summer School "Neural Nets E.R. Caianiello" on Nonlinear Speech Processing: Algorithms and Analysis, held in Vietri sul Mare, Salerno, Italy, during September 13-18, 2004. The aim of this book is to provide primarily high-level tutorial coverage of the fields related to nonlinear methods for speech processing and analysis, including new approaches aimed at improving speech applications. Fourteen surveys are offered by specialists in the field. Consequently, the volume may be used as a reference book on nonlinear methods for speech processing and analysis. Also included are fifteen papers that present original contributions in the field and complete the tutorials. The volume is divided into five sections: Dealing with Nonlinearities in Speech Signal, Acoustic-to-Articulatory Modeling of Speech Phenomena, Data Driven and Speech Processing Algorithms, Algorithms and Models Based on Speech Perception Mechanisms, and Task-Oriented Speech Applications. Dealing with Nonlinearities in Speech Signals is an introductory section where nonlinear aspects of the speech signal are introduced from three different points of view. The section includes three papers. The first paper, authored by Anna Esposito and Maria Marinaro, is an attempt to introduce the concept of nonlinearity revising several nonlinear phenomena observed in the acoustics, the production and the perception of speech. Also discussed is the engineering endeavor to model these phenomena.

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