Speech Communication

Call for Papers: Special Issue on
Non-Linear and Non-Conventional Speech Processing

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The field of speech processing has shown a very fast development in the past twenty years, thanks to both technological progress and to the convergence of research into a few mainstream approaches. However, some specificities of the speech signal are still not well addressed by the current models. New models and processing techniques need to be investigated in order to foster and/or accompany future progress, even if they do not match immediately the level of performance and understanding of the current state-of-the-art approaches.

An ISCA-ITRW Workshop on "Non-Linear Speech Processing" will be held in May 2007, the purpose of which will be to present and discuss novel ideas, works and results related to alternative techniques for speech processing departing from the mainstream approaches:

http://www.congres.upmc.fr/nolisp2007

We are now soliciting journal papers not only from workshop participants but also from other researchers for a special issue of Speech Communication on "Non-Linear and Non-Conventional Speech Processing"

Submissions are invited on the following broad topic areas:

   I. Non-Linear Approximation and Estimation
  II. Non-Linear Oscillators and Predictors
 III. Higher-Order Statistics
  IV. Independent Component Analysis
   V. Nearest Neighbours
  VI. Neural Networks
 VII. Decision Trees
VIII. Non-Parametric Models
  IX. Dynamics of Non-Linear Systems
   X. Fractal Methods
  XI. Chaos Modelling
 XII. Non-Linear Differential Equations

All fields of speech processing are targeted by the special issue, namely :

   1. Speech Production
   2. Speech Analysis and Modelling
   3. Speech Coding
   4. Speech Synthesis
   5. Speech Recognition
   6. Speaker Identification / Verification
   7. Speech Enhancement / Separation
   8. Speech Perception

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Important Dates:

Submissions due: December 1, 2007
First Notification of Decisions: March 1, 2008

Submission requirements:

Papers should follow the manuscript preparation requirements for Speech
Communications submissions, as specified at
http://authors.elsevier.com/journal/specom. Authors are requested to submit their
manuscripts via the online submission site, at http://ees.elsevier.com/specom, and
to choose Professor Kuldip Paliwal as the handling Editor, and "Special Issue:
NOLISP 2007" as the Article Type.
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