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Jordi Solé-Casals Vladimir Zaiats (Eds.)

Advances in Nonlinear Speech Processing

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Revised Selected Papers

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Preface

This volume contains the proceedings of NOLISP 2009, an ISCA Tutorial and Workshop on Non-Linear Speech Processing held at the University of Vic (Catalonia, Spain) during June 25-27, 2009.

NOLISP 2009 was preceded by three editions of this biannual event held 2003 in Le Croisic (France), 2005 in Barcelona, and 2007 in Paris. The main idea of NOLISP workshops is to present and discuss new ideas, techniques and results related to alternative approaches in speech processing that may depart from the mainstream. In order to work at the front-end of the subject area, the following domains of interest have been defined for NOLISP 2009:

1. Non-linear approximation and estimation
2. Non-linear oscillators and predictors
3. Higher-order statistics
4. Independent component analysis
5. Nearest neighbors
6. Neural networks
7. Decision trees
8. Non-parametric models
9. Dynamics for non-linear systems
10. Fractal methods
11. Chaos modeling
12. Non-linear differential equations

The initiative to organize NOLISP 2009 at the University of Vic (UVic) came from the UVic Research Group on Signal Processing and was supported by the Hardware-Software Research Group.

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All contributions to this volume are original. They were subject to a double-blind refereeing procedure before their acceptance for the workshop and were revised after being presented at NOLISP 2009.

September 2009

Jordi Solé-Casals
Vladimir Zaiats

Organization

NOLISP 2009 was organized by the Department of Digital Technologies, University of Vic, in cooperation with ISCA and EURASIP.

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International Speech Communication Association (ISCA)
European Association for Signal Processing (EURASIP)

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