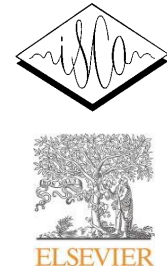# Call for Papers
Special Issue of
COMPUTER SPEECH AND LANGUAGE
on
Next Generation Computational Paralinguistics

Computational Paralinguistics recently reached a level of maturity allowing for their first real-life applications in interaction, coaching, media retrieval, robotics, surveillance, and manifold further domains. In particular, an increasing level of realism is recently faced by coping with speaker independent analysis of highly naturalistic data in narrow-bandwidth, noisy, or reverberated conditions. At the same time, the richness of the range of speaker states and traits analysed computationally is increasingly widening up. This includes in particular also the degree of subjectivity faced with tasks such as perceived speaker personality, likability, or intelligibility, to name a few. Both these aspects require additional experience on the interplay of states and traits in speech, singing, and language. Further, with the integration in applications, novel aspects arise such as efficiency, reliability, self-learning, mobility, multi-cultural and multi-lingual aspects, handling groups of speaker or singers, standardisation, and user experience with such systems.

This Special Issue thus aims at shaping the *Next Generation Computational Paralinguistics*. It will focus on technical issues for highly improved and reliable state and trait analysis in spoken, sung, and written language and provide a forum for some of the very best experimental work on this topic. Original, previously unpublished submissions are encouraged within the following scope:

- Analysis of States and Traits in Spoken, Sung, and Written Language
- Subjectivity in Computational Paralinguistics (e.g., perceived states and traits)
- Interdependence of States and Traits
- Intelligibility of Language Varieties and Deviant Speech
- Efficiency (low energy and memory consumption, fast adaptation, active learning, etc.)
- Reliability (e.g., confidence measures, robustness against regulation and feigning, overlap)
- Self-learning (unsupervised, partially supervised, reinforced, and deep learning)
- Mobility (client/server distribution, package loss, coding artefacts, privacy preservation, etc.)
- Multicultural and Multilingual Issues
- Speaker / Singer Group Characterisation
- Standardisation (output encoding, feature encoding, etc.)
- Application (interaction, voice and writing coaching, retrieval, robotics, surveillance, etc.)
- User Experience of Computational Paralinguistics Systems

Important Dates

Submission Deadline	1 April 2013
First Notification	1 July 2013
Final Version of Manuscripts	1 November 2013
Tentative Publication Date	January 2014

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Submission Procedure

Prospective authors should follow the regular guidelines of the Computer Speech and Language Journal for electronic submission (http://ees.elsevier.com/csl). During submission authors must select for this Special Issue (short name "NextGen Paralinguistics").