

Accepted Manuscript

Automatic Speaker, Age-group and Gender Identification from Children's Speech

Saeid Safavi, Martin Russell, Peter Jančovič

PII: S0885-2308(16)30136-X
DOI: [10.1016/j.csl.2018.01.001](https://doi.org/10.1016/j.csl.2018.01.001)
Reference: YCSLA 912



To appear in: *Computer Speech & Language*

Received date: 1 May 2016
Revised date: 22 November 2017
Accepted date: 3 January 2018

Please cite this article as: Saeid Safavi, Martin Russell, Peter Jančovič, Automatic Speaker, Age-group and Gender Identification from Children's Speech, *Computer Speech & Language* (2018), doi: [10.1016/j.csl.2018.01.001](https://doi.org/10.1016/j.csl.2018.01.001)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- First systematic study of acoustic approaches to speaker, gender and age-group identification from speech for children
- First systematic study of the utility of different frequency sub-bands for speaker, gender and age-group identification from speech for children.
- First systematic study of the utility of different acoustic classification techniques, namely GMM-UBM, GMM-SVM and i-vectors, to speaker, gender and age-group identification from speech for children.
- First exploration of the effects of age- and gender-dependent modelling and the onset of male puberty on automatic speaker, gender and age-group identification

Download English Version:

<https://daneshyari.com/en/article/6951484>

Download Persian Version:

<https://daneshyari.com/article/6951484>

[Daneshyari.com](https://daneshyari.com)