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

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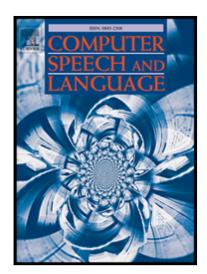
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#### ACCEPTED MANUSCRIPT

### 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

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