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Acoustical and perceptual study of voice disguise by age modification  
in speaker verification

Rosa González Hautamäki, Md Sahidullah, Ville Hautamäki,  
Tomi Kinnunen

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**Highlights**

- We study the effects of voice disguise on speaker verification on a corpus of 60 native Finnish speakers from acoustic and perceptual perspectives based on automatic speaker verification system performance.
- Acoustic analyses with statistical tests reveal the difference in fundamental frequency and formant frequencies between natural and disguised voices.
- The listening test with 70 subjects indicates the correspondence between perceptual and automatic speaker recognition evaluation.

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