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Vowel Processing in Cluttered Auditory Scenes

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Document Version Publisher's PDF, also known as Version of record

Publication date: 2016

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA):

van Meerveld, B. (2016). Vowel Processing in Cluttered Auditory Scenes. [Thesis fully internal (DIV), University of Groningen]. University of Groningen.

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Download date: 05-12-2023

- 1. Occlusion or masking of speech information is rather the rule than the exception in natural speech processing. Therefore, speech processing systems should be developed for natural speech conditions.
- 2. The natural boundaries of sound elements should be captured in the featural representation of speech in systems for automatic speech processing.
- 3. Harmonic complexes can be a key to solving the lack of robustness in automatic speech processing approaches.
- 4. Weighting different features according to their acoustical salience is essential for efficient speech processing.
- 5. Pursuing the reduction of error rates in speech recognition approaches sup- presses innovation. Instead it is sometimes needed to step out of a local maximum in order to reach the optimal solution on the long term.
- 6. Most things exist in gradations. Therefore, categorization incurs costs and should be postponed.
- 7. An understanding person needs only half a word (Dutch saying).
- 8. More often than not, speech is noise.