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The impact of the Lombard effect on audio and visual speech recognition systems

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Highlights

- Analysis of audio and visual Lombard speech using new 54 speaker database.
- New data on the inter-speaker variability of the Lombard effect.
- Measurement of the impact of Lombard mismatch in a noise robust speech recognition system.
- Detailed analysis of plain speech versus Lombard speech performance in well-adapted recognition system.
- Evidence that visual Lombard speech supports higher recognition performance than visual plain speech.

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