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The Third 'CHIME' Speech Separation and Recognition Challenge:  
Analysis and Outcomes

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**Highlights**

- The presentation of a unique multi-microphone speech recognition challenge with speech recorded in real environments.
- A detailed characterisation of the challenge audio using novel analyses to estimate key properties of the speakers, environments and noisy speech signals.
- An overview of 26 systems submitted to the challenge presenting a snapshot of the state-of-the-art in distant microphone ASR.
- A presentation of system performance identifying which signal processing and statistical modelling techniques are the most beneficial.
- An presentation of correlations between signal characteristics and system performances across utterances addressing the question, “What are the particular circumstances that lead to high word error rates?”

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