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Multichannel lung sound analysis for asthma detection

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**1 Highlights**

- 2 • Lung sound is acquired using a novel 4-channel data acquisition system.
- 3 • Asthma is detected using posterior lung sound signal, even in absence of wheeze.
- 4 • A novel subband-based feature extraction technique is proposed.
- 5 • The proposed method outperforms commonly used feature extraction methods.
- 6 • Channel combinations are studied to reveal their attributes in asthma detection.

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