

IEEE ASRU 2025 Best Student Paper Nomination

Xuanjun Chen · National Taiwan University



Top 2.5% · 11 of 447 submissions

Conference IEEE Automatic Speech Recognition and Understanding Workshop (ASRU 2025), December 6–10, 2025, Honolulu, Hawaii, USA

Paper Towards Generalized Source Tracing for Codec-Based Deepfake Speech

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TL;DR SASTNet fuses Whisper semantics with Wav2vec2/AudioMAE acoustics to trace CodecFake speech back to its source codec.

Selection The TPC Chair of each topic area nominated at most one accepted paper: 11 candidates in total, the top 2.5% of 447 submissions (11 / 447).

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Industry News

The IEEE Automatic Speech Recognition and Understanding (ASRU) Workshop 2025 will take place **December 6–10, 2025**, at the **Hyatt Regency Waikiki Beach Resort and Spa** in Honolulu, Hawaii.

This premier event brings together leading researchers, industry experts, and innovators to explore cutting-edge developments in Automatic Speech Recognition and Understanding.

The workshop fosters collaboration between academia and industry, offering an intimate environment for knowledge exchange and networking. Attendees will gain insights into:

- Speech recognition systems
- Spoken dialog systems
- Speech analysis and paralinguistic phenomena
- Applications of automatic speech recognition and speech analysis
- Large language models for speech
- Speech foundation models.

We received a record **447 submissions**, accepting **212 papers** (regular, special session, challenge, and demo), for an overall acceptance rate of **47.43%**. This year, ASRU has attracted **385 registered participants**, representing a strong mix of industry and academia.

Best Student Paper Candidates

Among the 215 accepted papers, the TPC Chair in charge of each topic area identified up to one best paper candidate. TPC chairs who were co-authors of any candidate were excluded from voting; all other TPC chairs read all candidates, each voted independently, and the Condorcet winner was chosen as best student paper. The best student paper will be announced in the Closing Ceremony.

20 Omni-R1: Do You Really Need Audio to Fine-Tune Your Audio LLM?

29 SMILE: Speech Meta In-Context Learning for Low-Resource Language Automatic Speech Recognition

43 Flow-SLM: Joint Learning of Linguistic and Acoustic Information for Spoken Language Modeling

75 SV-Mixer: Replacing the Transformer Encoder with Lightweight MLPs for Self-Supervised model compression in Speaker Verification

96 OOQ: Outlier-Oriented Quantization for Efficient Large Language Models

112 Is Smaller Always Faster? Tradeoffs in Compressing Self-Supervised Speech Transformers

152 XEmoRAG: Cross-Lingual Emotion Transfer with Controllable Intensity Using Retrieval-Augmented Generation

215 Towards Generalized Source Tracing for Codec-Based Deepfake Speech

289 Speech Synthesis From Continuous Features Using Per-Token Latent Diffusion

299 RE-LLM: Refining Empathetic Speech-LLM Responses by Integrating Emotion Nuance

Reliability of Lexical Richness Measures for ASR-Based Children's Speech Assessment



(a) About the conference: IEEE SPS news, Dec. 1, 2025 · [Article](#)

(b) Candidates slide shown at the conference; our paper in the **orange box** · [arXiv:2506.07294](#)