WSLP 2025

First Workshop on Sign Language Processing (WSLP)

Proceedings of the Workshop

December 20-24, 2025

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Introduction

We are pleased to present the Proceedings of the First Workshop on Sign Language Processing (WSLP 2025), held in conjunction with IJCNLP–AACL 2025 at IIT Bombay. This volume brings together research contributions, shared-task system descriptions, and community perspectives that reflect the rapidly growing interest in computational approaches to signed languages, particularly those that have historically been under-resourced.

This workshop was conceived with a clear goal: to broaden the scope of sign language technology beyond the few dominant datasets and to foreground linguistic, geographic, and community diversity. Indian Sign Language (ISL)—one of the world's largest and most vibrant sign languages—has long lacked large-scale, publicly available resources. However, with recent efforts such as the iSign corpus and CISLR, reproducible research and benchmark creation have become possible, enabling WSLP to establish the first public leaderboards for ISL-to-English translation, isolated sign recognition, and word-presence prediction.

These proceedings include ten accepted papers, covering a wide spectrum of themes:
- Creation of new multimodal and multilingual sign language datasets. - Motion-aware and pose-based modelling for continuous sign language translation. - Cross-linguistic phonological analysis. - Data augmentation strategies using large language models. - Lightweight real-time systems tailored to regional languages and low-resource environments.

The workshop also featured a three-track shared task on Indian Sign Language, hosted on Codabench. By releasing open datasets, encouraging pose-only, privacy-aware modelling, and lowering computational barriers, the shared task has set a new foundation for reproducible and equitable research in ISL processing.

We are grateful to our invited speakers, Dr. Amit Moryossef and Dr. Andesha Mangla, whose talks provided deep insight into the future of sign language technology, transcription systems, and the role of ISL in Deaf education. Their contributions underscored the importance of bridging technical innovation with linguistic expertise and community needs.

We also thank the IJCNLP–AACL 2025 Organizing Committee for their support, the reviewers for their thoughtful evaluations, and the many participants whose enthusiasm and contributions made this workshop possible. Most importantly, we acknowledge the Deaf community and the ISL interpreters, educators, and linguists whose work and guidance remain central to the advancement of sign language technology.

We hope these proceedings will serve as a resource for researchers, developers, and community members working toward inclusive, equitable, and deployable sign-language AI.

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