VLSP 2025

Proceedings of the 11th International Workshop on Vietnamese Language and Speech Processing

29–30 October, 2025

Vietnam Institute for Advanced Study in Mathematics (VIASM)

Hanoi, Vietnam

Acknowledgments

Foreword

The 11th International Workshop on Vietnamese Language and Speech Processing (VLSP 2025) was hosted at the Vietnam Institute for Advanced Study in Mathematics (VIASM), Hanoi, Vietnam, on October 29–30, 2025. Continuing the tradition established since its inception, VLSP serves as the primary scientific forum for researchers, developers, and practitioners to exchange ideas and advance the state of the art in Vietnamese language and speech technologies.

Since VLSP 2016, the workshop has been composed of two main components: a scientific track featuring peer-reviewed research papers and software demonstrations, and an evaluation campaign offering shared tasks on Vietnamese text and speech processing. This structure reflects the dual goals of VLSP - to foster academic research and to strengthen the development of high-quality language and speech resources for the Vietnamese language. Beginning in 2020, VLSP workshops have been officially organized under the Association for Vietnamese Language and Speech Processing, a chapter of the Vietnam Association for Information Processing.

The VLSP 2025 edition, held in conjunction with the 18th International Conference on Natural Language Generation (INLG 2025), continues this mission through an ambitious evaluation campaign comprising eleven shared tasks. These include challenges on Speech Quality Assessment, Automatic Speech Recognition and Speech Emotion Recognition, Spoofing-Aware Speaker Verification, Voice Conversion, Deep Retrieval in the expansive Legal Landscape (DRiLL), Vietnamese Legal Small Language Models (Legal-SLM), Numerical Reasoning Question Answering, Temporal Question Answering, Semantic Parsing, Medical Domain Machine Translationwith Limited-Pretraining Models, and Multimodal Legal Question Answering on Traffic Sign Rules. These shared tasks not only promote methodological innovation but also contribute to building valuable benchmark datasets for the VLSP community.

VLSP 2025 was organized by the Association for Vietnamese Language and Speech Processing (a chapter of the Vietnam Association for Information Processing). The organizers would like to extend their sincere gratitude to Hanoi University of Science and Technology (HUST), the Japan Advanced Institute of Science and Technology (JAIST), NamiTech, the National Institute of Informatics (NII, Japan), Ton Duc Thang University (TDTU), Thuyloi University (TLU), Vbee, Vietlex, VNU University of Science (VNU-HUS), VNU University of Engineering and Technology (VNU-UET), VNU University of Law (VNU-UL), and VNUHCM University of Information Technology (VNUHCM-UIT) for their collaboration in co-organizing the workshop and in constructing the datasets for the eleven shared tasks. The organizers are also deeply grateful to AI Hay and the Vingroup Innovation Foundation (VinIF) for their generous sponsorship, and to Int2, AIHub.ML, and the University of Science and Technology of Hanoi (USTH) for hosting and supporting the operation of the VLSP 2025 challenges and website.

We hope that the proceedings of VLSP 2025 will provide readers with valuable insights into current advances in Vietnamese language and speech processing and will continue to inspire future research and collaboration within this growing community.

Luong Chi Mai
Nguyen Thi Minh Huyen
Nguyen Thi Thu Trang

VLSP 2025 Chairs

Organizers

General Co-chairs

Nguyen Thi Minh Huyen, VNU University of Science, Hanoi, Vietnam

Nguyen Thi Thu Trang, Hanoi University of Science and Technology, Vietnam

Organizing Co-chairs

Le Anh Cuong, Ton Duc Thang University, Ho Chi Minh City, Vietnam

Nguyen Viet Cuong, Intelligent Integration Co., Ltd., Vietnam

Do Van Hai, Thuy Loi University, Hanoi, Vietnam

Nguyen Van Kiet, University of Information Technology, VNU Ho Chi Minh City, Vietnam

Le Hong Phuong, VNU University of Science, Hanoi, Vietnam

Le Hoang Quynh, VNU University of Engineering and Technology, Hanoi, Vietnam

Vu Xuan Son, Umeå University, Sweden

Nguyen Van Vinh, VNU University of Engineering and Technology, Hanoi, Vietnam

Local Organizing Co-chairs

Ha My Linh, VNU University of Science, Hanoi, Vietnam

Ngo The Quyen, VNU University of Science, Hanoi, Vietnam

Program Committee Co-chairs

Luong Chi Mai, Institute of Information Technology, VAST, Vietnam

Nguyen Le Minh, Japan Advanced Institute of Science and Technology (JAIST), Japan

Reviewers

Anh Dinh Vu

Bui Tien Dat

Cam-Van Thi Nguyen

Chi Trong Duong

Do Duy Dao

Dung Chi Hoang

Duy-Cat Can

Ha My Linh

Ha Tien Nguyen

Ha Thanh Nguyen

Hai Huu Nguyen

Hai Cao Manh

Hoang Ky Nguyen

Hoang-Trung Nguyen

Huy Quoc To

Khanh Quoc Tran

Khiem Vinh Tran

Kiet Van Nguyen

Long Duy Tran

Long-Vu Hoang

Minh Nhat Nguyen

Nghia Hieu Nguyen

Ngo Thi Vinh

Nguyen Thien Hy

Nhat Hong Tran

Nhi Thao Pham

Nhi Nguyen Yen Truong

Pham Thi Duc

Quyen The Ngo

Ta Bao Thang

Tan V Bui

Tan-Minh Nguyen

Thai-Binh Nguyen

Thi Huyen Nguyen

Thi Thu Trang Nguyen

Thuc Huu Tran

Tien Viet Pham

Toan Le Ngoc

Tri Dung Do

Trung Thien Vo

Tuan Duc Nguyen

Tuan V. A. Nguyen

Tuan-Anh Hoang

Tung Le

Tuong Tu Huu

Van Hai Do

Le Hong Phuong

Table of Contents

Deep Retrieval in the expansive Legal Landscape (DRiLL)

Vietnamese Legal Small Language Models (LegalSLM)

Numerical Reasoning Question Answering (NumQA)

Semantic Parsing (viSemParse)

Temporal Question Answering (TempQA)

Medical Domain Machine Translation with Limited-Pretraining Models (MMT-LPM)

Multimodal Legal Question Answering on Traffic Sign Rules (MLQA-TSR)