

15th Symposium on Languages, Applications and Technologies

SLATE 2026, June 25–26, 2026, Lisbon, Portugal

Edited by

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Preface

This volume contains the proceedings of the 15th Symposium on Languages, Applications and Technologies, SLATE 2026, held at Iscte – Instituto Universitário de Lisboa, Lisbon, Portugal, on June 25 and 26, 2026.

Since its inception, SLATE has provided a forum for the discussion of languages in their many forms and uses. Language is central to communication, representation, reasoning, and computation, and the symposium reflects this diversity through its three usual tracks: Human-Human Languages (HHL), Human-Computer Languages (HCL), and Computer-Computer Languages (CCL). These tracks bring together contributions on natural language processing, programming languages, language design and implementation, mark-up and interchange formats, protocols, and the many technologies that support the processing, analysis, and generation of languages.

The 2026 edition continues this tradition by gathering researchers, practitioners, and educators working at the intersection of languages, applications, and technologies. The papers included in these proceedings address both theoretical and practical challenges, ranging from language modelling and linguistic resources to programming language techniques, language-based tools, and applications in emerging technological contexts. Together, they illustrate the continued vitality of language-centred research and its relevance in a rapidly evolving digital landscape.

This year's edition featured two distinguished keynote speakers. Alcides Fonseca, from LASIGE and *Faculdade de Ciências da Universidade de Lisboa*, presented *Æon: A Programming Language with Guardrails*, discussing how advanced type systems, program synthesis, and artificial intelligence techniques can contribute to flexible programming languages. João Magalhães, from NOVA LINC and *Universidade NOVA de Lisboa*, presented *AMALIA: An Open Source Large Language Model for European Portuguese*, addressing the development and evaluation of open language models specifically designed for European Portuguese.

All submitted papers underwent a rigorous peer review process, leading to the acceptance of 21 papers, 3 of which are short papers. We are grateful to the members of the Programme Committee and to the external reviewers for their careful evaluations, constructive comments, and important role in selecting the final contributions. Their work was essential to ensuring the scientific quality of the symposium.

We would also like to thank all authors, affiliated with institutions from six different countries, for sharing their current research, challenges, and results with the SLATE community. Our sincere appreciation goes to the keynote speakers for accepting our invitation and enriching the programme. We also thank the organising committee, institutional partners, and local support teams at Iscte-IUL and ISTAR-Iscte for their dedication and effort in preparing this edition.

We hope that these proceedings offer a stimulating reading experience and inspire further research, collaboration, and dialogue across the communities concerned with languages, applications, and technologies.

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