1st Workshop on Machine Learning for Ancient Languages

Proceedings of the Workshop

August 15, 2024
The ML4AL organizers gratefully acknowledge the support from the following sponsors.

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Preface by the General Chair

Welcome to the proceedings of the 1st Machine Learning for Ancient Languages (ML4AL) Workshop, held as part of the Annual Conference of the Association for Computational Linguistics (ACL) 2024. Taking place on August 15th, 2024, this is a hybrid event with virtual and on-site participation in Thailand.

ML4AL showcases the scientific opportunities at the intersection of the Humanities and ML, representing a unique convergence between the two and spotlighting promising directions for future endeavors within this rising field. By leveraging advances in AI and by focusing on the study and preservation of ancient texts, ML4AL aims to inspire collaboration and support research momentum in the emerging field of ML for the study of ancient languages.

On its 1st year, ML4AL received 50 submissions from a global community of researchers. The submissions concerned multiple languages, including Ancient Greek, Latin, Sumerian and Akkadian, Classical and Old Chinese, ancient Egyptian, Coptic, etc. 18 papers were accepted for oral presentation (36%) and 10 were accepted as posters (20%). The accepted submissions covered diverse topics, such as digitization, restoration, attribution, linguistic analysis, textual criticism, translation, and decipherment of ancient texts. These contributions reflect the depth and breadth of current research and highlight the innovative approaches being developed to tackle the unique challenges posed by ancient languages.

Besides the oral and poster presentations, ML4AL features two distinguished keynote talks to provide valuable perspectives on the integration of machine learning for the study of ancient texts. The talk of Dr Stephen Parsons from Educe Lab, University of Kentucky, USA concerns the virtual unwrapping of the Herculaneum Scrolls. The talk of Professor JinYeong Bak from the Department of Computer Science and Engineering, Sungkyunkwan University, South Korea focuses on monarchical ruling styles when applying ML to historical corpora.

The ML4AL Organising Committee is grateful: to the keynote speakers for their stimulating talks; the authors for their valuable contributions; the members of the Program Committee for their hard work. We would like to particularly thank our emergency reviewers, who provided very valuable expertise in a very limited time window. We would also like to extend our gratitude to the ACL 2024 Workshop Chairs for their kind assistance, and to our sponsors and supporting organization for their generous contributions. Specifically, Google DeepMind was our diamond-tier sponsor, the Vezuvius Challenge was our silver-tier sponsor, and Archimedes/Athena RC was our supporting organization.

Hopefully, the discussions and collaborations initiated at this workshop will lead to significant advancements in the study of ancient languages and foster a deeper understanding of our shared human heritage.

Sincerely,

John Pavlopoulos, General Chair
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