Call for papers for a special issue of the journal Computational linguistics on: “Computational approaches in historical linguistics after the quantitative turn”

Deadline: July 15, 2018

Guest editors

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Call for papers

Computational approaches play an increasingly important role in historical linguistics and typology. During the last two decades, scholars have made significant advances in automatizing and formalizing specific aspects of the workflow of the classic comparative method. Among these are novel techniques for phonetic alignment (Prokić et al. 2009, List 2014), the detection of cognate words (Kondrak 2009, Rama 2016, List et al. 2017, Jäger et al. 2017), and improved methods for phylogenetic reconstruction (Chang et al. 2015, Bouckaert et al. 2012), complemented by numerous pioneering approaches investigating specific aspects of language change, such as geographic diffusion (Prokić and Cysouw 2013), semantic shift (Dellert 2016) and regular sound change (Hruschka et al. 2015, Bouchard-Côté et al. 2013), and even fully automated work flows for large-scale language comparison have been proposed (Brown et al. 2008, Jäger 2015, Rama and Borin 2015). On the other hand, availability of typological databases such as WALS has allowed scholars to investigate specific hypotheses regarding evolution of grammar and lexicon (Greenhill et al. 2017), the interaction of typological features (Hammarström and O’Connor 2013), and the areal distribution of linguistic structures (Daume III 2009, Chang and Michael 2014).

Despite the growing interest in automated approaches to historical linguistics, it is obvious that automatic approaches are still far away from being able to replace human experts, and the majority of approaches still makes broad use of manually annotated datasets. More than two decades after the quantitative turn in historical linguistics, we think it is time to reconsider how computational approaches in historical linguistics can be further improved, and where their current limits can be found.

Topics of interest

We invite submissions of papers which address one or several of the following questions:

1. How can we improve the automatic identification of cognates?
2. How can computational methods help to infer deeper genetic relations between the world’s language families?
3. How can big data approaches from computational linguistics help to improve classical approaches to historical linguistics?
4. What are the strengths and shortcomings of phylogenetic methods?
5. How does demography and geography influence the spread of languages through time and space?
6. Are there universal tendencies in the evolution of the world’s languages?
7. How to integrate typological features with lexical features for inferring language phylogenies and predicting typological features for ancestral languages?

We strongly emphasize the role of sustainable research and therefore ask all submissions which involve data and/or code that are not already publically available to submit these along with the
paper anonymously. Papers which do not conform to this requirement will not be considered for publication.

**Paper format and reviewing policy**

Papers should be formatted according to the Computational Linguistics style ([http://cljournal.org/](http://cljournal.org/)) and submitted using the online submission system ([http://cljournal.org/submissions.html](http://cljournal.org/submissions.html)). In Step 1 of the submission process, please select “Special Issue: Computational historical linguistics” under the “Journal Section” heading. Please note that papers submitted to a special issue undergo the same reviewing process as regular papers. Special issues are the same length as regular issues (at most 5-6 papers, see [http://cljournal.org/specialissues.html](http://cljournal.org/specialissues.html) for more information).

**Deadline**

Paper submission deadline: July 15, 2018 (23:59 PST)

**Contact**

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**References**


