Preface

The World Wide Web has become increasingly popular as a source of linguistic data, not only within the NLP communities, but also with theoretical linguists facing problems of data sparseness or data diversity. Accordingly, web corpora continue to gain importance, given their size and diversity in terms of genres/text types. However, after a decade of activity in the web-as-corpus community, a number of issues in web corpus construction still needs much research.

For instance, questions concerning sampling strategies and their relation to crawling algorithms have not yet been explored in any detail so far. Virtually all existing large web corpora were sampled using breath-first web crawls, which demonstrably yield biased results and make the corpus particularly vulnerable to criticism targeting their sampling frame. In addition, relying on the results of commercial search engines when selecting the seed URLs for such crawls (as has been common practice) introduces an additional bias. This is also an issue for smaller web corpora obtained without web crawling, by simply downloading a number of documents fixed in advance.

Turning to the linguistic post-processing of web corpora, problems may arise, among other things, from the kind of non-copy edited, quasi-spontaneous language typical of numerous genres of computer-mediated communication. Spelling errors and deliberate non-standard spellings are a case in point, and grammatical variation as well as (semi-)graphical elements like emoticons also figure prominently. Technically, all of these present challenges for NLP tools (such as POS-taggers, parsers etc.) that expect “clean”, copy-edited standard language. From a conceptual point of view, such variation begs the question whether (and to what extent) web corpora should be normalized and how this can be achieved in a transparent and non-destructive way.

A similar point can be made when it comes to document filtering: Currently available web corpora have usually undergone radical cleaning procedures in order to produce “high-quality” data. However, at least for some uses of the data, aggressive and sometimes arbitrary removal of material in the form of whole documents or parts thereof can be problematic.

Finally, the systematic evaluation of web corpora, for example in the form of task-based comparisons to traditional corpora, has only lately shifted into focus.

Against this backdrop, most of the contributions included in this volume address particular problems related to data collection and normalization, while others offer a broader perspective on the process of constructing a particular web corpus. The papers were selected after a highly competitive review process, and we would like to thank all those who submitted, as well as the program committee who contributed to the review process.

Felix Bildhauer & Roland Schäfer, March 2014
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11:30–12:00  Finding Viable Seed URLs for Web Corpora: A Scouting Approach and Comparative Study of Available Sources
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12:00–12:30  Focused Web Corpus Crawling
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14:00–14:30  Less Destructive Cleaning of Web Documents by Using Standoff Annotation
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14:30–15:00  Some Issues on the Normalization of a Corpus of Products Reviews in Portuguese
  Magali Sanches Duran, Lucas Avanço, Sandra Aluíso, Thiago Pardo and Maria da Graça Volpe Nunes

15:00–15:30  bs.hr.srWaC - Web Corpora of Bosnian, Croatian and Serbian
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16:00–16:30  The PAISÀ Corpus of Italian Web Texts
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16:30–17:00  Internet Data in a Study of Language Change and a Program Helping to Work with Them
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17:00-18:00  Discussion
