Proceedings
of the
14th Workshop on Building and Using Comparable Corpora
(BUCC 2021)

in conjunction with
International Conference on Recent Advances in Natural
Language Processing (RANLP 2021)

Edited by
Reinhard Rapp, Serge Sharoff, Pierre Zweigenbaum

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14th Workshop on Building and Using Comparable Corpora (BUCC 2021)
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PROCEEDINGS

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Comparable corpora are collections of documents that are comparable in content and form in various degrees and dimensions. This definition includes many types of parallel and non-parallel multilingual corpora, but also sets of monolingual corpora that are used for comparative purposes. Research on comparable corpora is active but used to be scattered among many workshops and conferences. The workshop series on “Building and Using Comparable Corpora” (BUCC) aims at promoting progress in this exciting field by bundling some of its research, thereby making it more visible and giving it a better platform.

The first 12 editions of the workshop took place in Africa (LREC’08 in Marrakech), America (ACL’11 in Portland and ACL’17 in Vancouver), Asia (ACL-IJCNLP’09 in Singapore, ACL-IJCNLP’15 in Beijing, LREC’18 in Miyazaki, Japan), Europe (LREC’10 in Malta, ACL’13 in Sofia, LREC’14 in Reykjavik, LREC’16 in Portoroz, RANLP’19 in Varna) and also on the border between Asia and Europe (LREC’12 in Istanbul). Due to the corona crisis, the 13th edition took place online as an LREC’20 workshop. This year’s 14th edition was held again online and took place as an RANLP’21 workshop.

We would like to thank all people who in one way or another helped in making this workshop once again a success. We are especially grateful to Ruslan Mitkov, Galia Angelova, Ivelina Nikolova, Kiril Simov and the whole RANLP team for their excellent support.

Our special thanks go to Pushpak Bhattacharyya, Tomas Mikolov and Sujith Ravi for accepting to give invited presentations and to the members of the programme committee who did an excellent job in reviewing the submitted papers under strict time constraints. Last but not least we would like to thank our authors, presenters and all participants of the workshop.

Reinhard Rapp, Serge Sharoff, Pierre Zweigenbaum

September 2021
Workshop Organizers:

Reinhard Rapp, Athena R.C., Magdeburg-Stendal University of Applied Sciences, University of Mainz (Chair)
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Pierre Zweigenbaum, Université Paris-Saclay, CNRS, LISN

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Pierre Zweigenbaum (Université Paris-Saclay, CNRS, LISN, Orsay, France)

Invited Speakers:

Pushpak Bhattacharyya, Indian Institute of Technology Bombay
Tomas Mikolov, Czech Institute of Informatics, Robotics and Cybernetics
Sujith Ravi, SliceX AI
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08:00–8:05  Opening

Session 1: Invited Presentation

08:05–9:00  Machine Translation in Low Resource Setting
Pushpak Bhattacharyya, IIT Bombay

Session 2: Corpus Construction

9:00–9:25  EM Corpus: a comparable corpus for a less-resourced language pair Manipuri-English
Rudali Huidrom, Yves Lepage and Khogendra Khomdram

9:25–9:40  Coffee Break

Session 3: Data Extraction and Corpus Annotation

9:40–10:05  Mining Bilingual Word Pairs from Comparable Corpus using Apache Spark Framework
Sanjanasri JP, Vijay Krishna Menon, Soman KP and Krzysztof Wolk

10:05–10:30  Employing Wikipedia as a resource for Named Entity Recognition in Morphologically complex under-resourced languages
Aravind Krishnan, Stefan Ziehe, Franziska Pannach and Caroline Sporleder

Jeremias Bohn, Jannik Fischbach, Martin Schmitt, Hinrich Schütze and Andreas Vogelsang

10:55–11:20  A Dutch Dataset for Cross-lingual Multilabel Toxicity Detection
Ben Burtenshaw and Mike Kestemont

11:20–12:10  Lunch Break

Session 4: Invited Presentation

12:10–13:05  Language Modeling and AI
Tomas Mikolov, Czech Institute of Informatics, Robotics and Cybernetics
Session 5: Neural MT and Bitext Extraction

Santiago Egea Gómez, Euan McGill and Horacio Saggion

13:30–13:55 Effective Bitext Extraction From Comparable Corpora Using a Combination of Three Different Approaches
Steinþór Steingrímsson, Pintu Lohar, Hrafn Loftsson and Andy Way

13:55–14:10 Coffee Break

Session 6: Bitext Retrieval and Dictionary Extraction

14:10–14:35 Majority Voting with Bidirectional Pre-translation For Bitext Retrieval
Alexander Jones and Derry Tanti Wijaya

14:35–15:00 On Pronunciations in Wiktionary: Extraction and Experiments on Multilingual Syl- labification and Stress Prediction
Winston Wu and David Yarowsky

Session 7: Invited Presentation

15:00–15:55 Large-scale Deep Learning for Low-Resource AI
Sujith Ravi, SliceX AI

15:55–16:00 Closing