

EACL 2021

**Proceedings of the 8th VarDial Workshop
on NLP for Similar Languages, Varieties and Dialects**

**Co-located with the 16th European Chapter
of the Association for Computational Linguistics (EACL)**

April 20, 2021

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Preface

These proceedings include the 16 papers presented at the Eighth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial), which was co-located with the 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL). VarDial and EACL were originally scheduled to take place in Kiev, Ukraine, but the COVID-19 situation eventually forced a switch to a virtual format.

We are happy to see that after many years, VarDial keeps serving the community as an important venue for researchers interested in the computational processing of diatopic language variation. The papers accepted this year deal with a wide variety of topics such as language identification, part-of-speech tagging, machine translation, distributional semantic models, and corpus similarity.

As in previous years, together with the workshop, we organized another iteration of the popular VarDial Evaluation Campaign with four shared tasks: Dravidian Language Identification (DLI), Romanian Dialect Identification (RDI), Social Media Variety Geolocation (SMG), and Uralic Language Identification (ULI). Each of these tasks addressed an important challenge in dialect and language identification. Eight teams prepared system description papers that are included in this volume, along with a report paper written by the campaign organizers summarizing the results and the main findings of the evaluation campaign.

Finally, we would like to take this opportunity to thank the VarDial Evaluation Campaign shared task organizers and the task participants for their hard work. We further thank our amazing VarDial program committee members for their thorough reviews. They have been a very important part of the workshop's success in these eight years.

The VarDial workshop organizers:

Marcos Zampieri, Preslav Nakov, Nikola Ljubešić, Jörg Tiedemann, Yves Scherrer, and Tommi Jauhiainen

<http://sites.google.com/view/wardial2021/>

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Conference Program

Tuesday, April 20, 2021

10:30–10:40 *Opening Session*

10:40–11:00 *Findings of the VarDial Evaluation Campaign 2021*

Bharathi Raja Chakravarthi, Gaman Mihaela, Radu Tudor Ionescu, Heidi Jauhiainen, Tommi Jauhiainen, Krister Lindén, Nikola Ljubešić, Niko Partanen, Ruba Priyadharshini, Christoph Purschke, Eswari Rajagopal, Yves Scherrer and Marcos Zampieri

11:00–11:30 *Coffee break*

11:30–12:30 *Invited Talk by Jack Grieve*

Oral Presentations

12:30–12:45 *Hierarchical Transformer for Multilingual Machine Translation*

Albina Khusainova, Adil Khan, Adín Ramírez Rivera and Vitaly Romanov

12:45–13:00 *Regression Analysis of Lexical and Morpho-Syntactic Properties of Kiezdeutsch*

Diego Frassinelli, Gabriella Lapesa, Reem Alatrash, Dominik Schlechtweg and Sabine Schulte im Walde

13:00–13:15 *Representations of Language Varieties Are Reliable Given Corpus Similarity Measures*

Jonathan Dunn

13:15–13:30 *Whit's the Richt Pairt o Speech: PoS tagging for Scots*

Harm Lameris and Sara Szymne

13:30–15:00 *Lunch break*

Tuesday, April 20, 2021 (continued)

15:00–16:00 Poster Session

Efficient Unsupervised NMT for Related Languages with Cross-Lingual Language Models and Fidelity Objectives

Rami Aly, Andrew Caines and Paula Buttery

Fine-tuning Distributional Semantic Models for Closely-Related Languages

Kushagra Bhatia, Divyanshu Aggarwal and Ashwini Vaidya

Discriminating Between Similar Nordic Languages

René Haas and Leon Derczynski

Naive Bayes-based Experiments in Romanian Dialect Identification

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Gabriel Bernier-Colborne, Serge Leger and Cyril Goutte

Social Media Variety Geolocation with geoBERT

Yves Scherrer and Nikola Ljubešić

Tuesday, April 20, 2021 (continued)

16:00–17:00 *Invited Talk by Katharina Kann*

17:00–17:15 *Closing Remarks*

