

LT-EDI EACL 2021

**First Workshop on Language Technology for  
Equality, Diversity and Inclusion (LT-EDI-2021)**

**Proceedings of the Workshop**

April 19, 2021

Online

©2021 The Association for Computational Linguistics

Order copies of this and other ACL proceedings from:

Association for Computational Linguistics (ACL)  
209 N. Eighth Street  
Stroudsburg, PA 18360  
USA  
Tel: +1-570-476-8006  
Fax: +1-570-476-0860  
[acl@aclweb.org](mailto:acl@aclweb.org)

ISBN 978-1-954085-07-7

## **Preface**

Equality, Diversity and Inclusion (EDI) is an important agenda across every field in the world. Language as a major part of communication should be inclusive and treat everyone equally. The internet community that uses language technology has a direct impact on people across the globe. EDI is crucial to make everyone valued and included, so it is necessary to build language technology that serves this purpose. Our workshop brings together researchers to research into inclusivity of gender, racial, sexual orientation, persons with disability, and other minorities in language technologies with the aim to build and use datasets addressing the concerns of EDI.



## **Organizing Committee**

Bharathi Raja Chakravarthi, National University of Ireland Galway  
John P. McCrae, National University of Ireland Galway  
Manel Zarrouk, Institut Galilee Universite Paris 13  
Kalika Bali, Microsoft Research India  
Paul Buitelaar, National University of Ireland Galway

## **Programme Committee**

Adeep Hande, Indian Institute of Information Technology Tiruchirappalli  
Aline Villavicencio, University of Sheffield, United Kingdom  
Alla Rozovskaya, Queens College (CUNY), United States of America  
Bianca Pereira, National University of Ireland Galway, Ireland  
Christiane D. Fellbaum, Princeton University, United States of America  
Dhivya Chinnappa, Thomson Reuters, United States of America  
Emily Bender, University of Washington, United States of America  
Emily Prudhommeaux, Boston College, United States of America  
Eswari Rajagopal, National Institute of Technology Tiruchirappalli, India  
Eva Schaeffer-Lacroix, Universite INSPE de l'academie de Paris  
Hung-Yu Kao, National Cheng Kung University, Taiwan  
Jamin Shin, Hong Kong University of Science and Technology, China  
Kathleen McKeown, Columbia University, United States of America  
Kevin Patrick Scannell, Saint Louis University, Missouri, United States of America  
Marissa Griesel, University of South Africa, South Africa  
Mathieu d'Aquin, National University of Ireland Galway, Ireland  
Manikandan Ravikiran, Hitachi Research and Development, India  
Marta R. Costajussa, Universitat Politecnica de Catalunya  
Menno Van Zaanen, North-West University, South Africa  
Monojit Choudhury, Microsoft Research, India  
Pascale Fung, Hong Kong University of Science Technology, Hong Kong  
Rachael Tatmam, Kaggle, United States of America  
Ruba Priyadharshini, ULTRA Arts and Science College, Madurai, India  
Sajeetha Thavareesan, Eastern University, Sri Lanka  
Senthil Kumar B, SSN College of Engineering, India  
Shubhanker Banerjee, National University of Ireland Galway  
Thenmozhi D. Sri Sivasubramaniya Nadar College of Engineering, India  
Thomas Mandl, Universitat Hildesheim, Germany  
Viktor Hangya, Ludwig Maximilian University of Munich, Germany



## Table of Contents

<i>Impact of COVID-19 in Natural Language Processing Publications: a Disaggregated Study in Gender, Contribution and Experience</i>	
Christine Basta and Marta R. Costa-jussa .....	1
<i>Adapting the Portuguese Braille System to Formal Semantics</i>	
Luís Filipe Cunha .....	7
<i>Cross-Lingual Transfer Learning for Hate Speech Detection</i>	
Irina Bigoulaeva, Viktor Hangya and Alexander Fraser .....	15
<i>hBERT + BiasCorp - Fighting Racism on the Web</i>	
Olawale Onabola, Zhuang Ma, Xie Yang, Benjamin Akera, Ibraheem Abdulrahman, Jia Xue, Dianbo Liu and Yoshua Bengio .....	26
<i>An Overview of Fairness in Data – Illuminating the Bias in Data Pipeline</i>	
Senthil Kumar B, Aravindan Chandrabose and Bharathi Raja Chakravarthi .....	34
<i>GEPSA, a tool for monitoring social challenges in digital press</i>	
Iñaki San Vicente, Xabier Saralegi and Nerea Zubia .....	46
<i>Finding Spoiler Bias in Tweets by Zero-shot Learning and Knowledge Distilling from Neural Text Simplification</i>	
Avi Bleiweiss .....	51
<i>Findings of the Shared Task on Hope Speech Detection for Equality, Diversity, and Inclusion</i>	
Bharathi Raja Chakravarthi and Vigneshwaran Muralidaran .....	61
<i>dhivya-hope-detection@LT-EDI-EACL2021: Multilingual Hope Speech Detection for Code-mixed and Transliterated Texts</i>	
Dhivya Chinnappa .....	73
<i>KU_NLP@LT-EDI-EACL2021: A Multilingual Hope Speech Detection for Equality, Diversity, and Inclusion using Context Aware Embeddings</i>	
Junaida M K and Ajees A P .....	79
<i>EDIOne@LT-EDI-EACL2021: Pre-trained Transformers with Convolutional Neural Networks for Hope Speech Detection.</i>	
Suman Dowlagar and Radhika Mamidi .....	86
<i>ssn_diBERTsity@LT-EDI-EACL2021: Hope Speech Detection on multilingual YouTube comments via transformer based approach</i>	
Arunima S, Akshay Ramakrishnan, Avantika Balaji, Thenmozhi D. and Senthil Kumar B .....	92
<i>IIIT@LT-EDI-EACL2021-Hope Speech Detection: There is always hope in Transformers</i>	
Karthik Puranik, Adeep Hande, Ruba Priyadharshini, Sajeetha Thavareesan and Bharathi Raja Chakravarthi .....	98
<i>IIIT_DWD@LT-EDI-EACL2021: Hope Speech Detection in YouTube multilingual comments</i>	
SUNIL SAUMYA and ANKIT KUMAR MISHRA .....	107

<i>IRNLP_DAIICT@LT-EDI-EACL2021: Hope Speech detection in Code Mixed text using TF-IDF Char N-grams and MuRIL</i>	
Bhargav Dave, Shripad Bhat and Prasenjit Majumder . . . . .	114
<i>ZYJ@LT-EDI-EACL2021:XLM-RoBERTa-Based Model with Attention for Hope Speech Detection</i>	
Yingjia Zhao and Xin Tao . . . . .	118
<i>TEAM HUB@LT-EDI-EACL2021: Hope Speech Detection Based On Pre-trained Language Model</i>	
Bo Huang and Yang Bai . . . . .	122
<i>cs_english@LT-EDI-EACL2021: Hope Speech Detection Based On Fine-tuning ALBERT Model</i>	
shi chen and bing kong . . . . .	128
<i>GCDH@LT-EDI-EACL2021: XLM-RoBERTa for Hope Speech Detection in English, Malayalam, and Tamil</i>	
Stefan Ziehe, Franziska Pannach and Aravind Krishnan . . . . .	132
<i>TeamUNCC@LT-EDI-EACL2021: Hope Speech Detection using Transfer Learning with Transformers</i>	
Khyati Mahajan, Erfan Al-Hossami and Samira Shaikh . . . . .	136
<i>Autobots@LT-EDI-EACL2021: One World, One Family: Hope Speech Detection with BERT Transformer Model</i>	
Sunil Gundapu and Radhika Mamidi . . . . .	143
<i>Amrita@LT-EDI-EACL2021: Hope Speech Detection on Multilingual Text</i>	
Thara S, Ravi teja Tasubilli and Kothamasu Sai rahul . . . . .	149
<i>Hopeful Men@LT-EDI-EACL2021: Hope Speech Detection Using Indic Transliteration and Transformers</i>	
Ishan Sanjeev Upadhyay, Nikhil E, Anshul Wadhawan and Radhika Mamidi . . . . .	157
<i>Hopeful NLP@LT-EDI-EACL2021: Finding Hope in YouTube Comment Section</i>	
Vasudev Awatramani . . . . .	164
<i>NLP-CUET@LT-EDI-EACL2021: Multilingual Code-Mixed Hope Speech Detection using Cross-lingual Representation Learner</i>	
Eftekhari Hossain, Omar Sharif and Mohammed Moshikul Hoque . . . . .	168
<i>Simon @ LT-EDI-EACL2021: Detecting Hope Speech with BERT</i>	
Qinyu Que . . . . .	175
<i>MUCS@LT-EDI-EACL2021:CoHope-Hope Speech Detection for Equality, Diversity, and Inclusion in Code-Mixed Texts</i>	
Fazlourrahman Balouchzahi, Aparna B K and H L Shashirekha . . . . .	180
<i>Spartans@LT-EDI-EACL2021: Inclusive Speech Detection using Pretrained Language Models</i>	
Megha Sharma and Gaurav Arora . . . . .	188
<i>CFILT IIT Bombay@LT-EDI-EACL2021: Hope Speech Detection for Equality, Diversity, and Inclusion using Multilingual Representation from Transformers</i>	
Pankaj Singh, Prince Kumar and Pushpak Bhattacharyya . . . . .	193



*IITK@LT-EDI-EACL2021: Hope Speech Detection for Equality, Diversity, and Inclusion in Tamil , Malayalam and English*

Nikhil Ghanghor, Rahul Ponnusamy, Prasanna Kumar Kumaresan, Ruba Priyadharshini, Sajeetha Thavareesan and Bharathi Raja Chakravarthi ..... 197



# Conference Program

**Monday, April 19, 2021**

**9:00–10:00 Invited Talk**

**10:00–11:00 Paper Session-I**

10:00–10:20 *Impact of COVID-19 in Natural Language Processing Publications: a Disaggregated Study in Gender, Contribution and Experience*

Christine Basta and Marta R. Costa-jussa

10:20–10:40 *Adapting the Portuguese Braille System to Formal Semantics*

Luís Filipe Cunha

10:40–11:00 *Cross-Lingual Transfer Learning for Hate Speech Detection*

Irina Bigoulaeva, Viktor Hangya and Alexander Fraser

**11:00–11:30 Coffee Break**

**11:30–13:00 Paper Session II**

11:30–11:50 *hBERT + BiasCorp - Fighting Racism on the Web*

Olawale Onabola, Zhuang Ma, Xie Yang, Benjamin Akera, Ibraheem Abdulrahman, Jia Xue, Dianbo Liu and Yoshua Bengio

11:50–12:10 *An Overview of Fairness in Data – Illuminating the Bias in Data Pipeline*

Senthil Kumar B, Aravindan Chandrabose and Bharathi Raja Chakravarthi

12:10–12:30 *GEPSA, a tool for monitoring social challenges in digital press*

Iñaki San Vicente, Xabier Saralegi and Nerea Zubia

12:30–12:50 *Finding Spoiler Bias in Tweets by Zero-shot Learning and Knowledge Distilling from Neural Text Simplification*

Avi Bleiweiss

**Monday, April 19, 2021 (continued)**

**13:00–14:00 Lunch Break**

**14:00–16:00 Poster Session**

14:00–16:00 *Findings of the Shared Task on Hope Speech Detection for Equality, Diversity, and Inclusion*

Bharathi Raja Chakravarthi and Vigneshwaran Muralidaran

14:00–16:00 *dhivya-hope-detection@LT-EDI-EACL2021: Multilingual Hope Speech Detection for Code-mixed and Transliterated Texts*

Dhivya Chinnappa

14:00–16:00 *KU\_NLP@LT-EDI-EACL2021: A Multilingual Hope Speech Detection for Equality, Diversity, and Inclusion using Context Aware Embeddings*

Junaida M K and Ajees A P

14:00–16:00 *EDIOne@LT-EDI-EACL2021: Pre-trained Transformers with Convolutional Neural Networks for Hope Speech Detection.*

Suman Dowlagar and Radhika Mamidi

14:00–16:00 *ssn\_diBERTsity@LT-EDI-EACL2021: Hope Speech Detection on multilingual YouTube comments via transformer based approach*

Arunima S, Akshay Ramakrishnan, Avantika Balaji, Thenmozhi D. and Senthil Kumar B

14:00–16:00 *IIITT@LT-EDI-EACL2021-Hope Speech Detection: There is always hope in Transformers*

Karthik Puranik, Adeep Hande, Ruba Priyadharshini, Sajeetha Thavareesan and Bharathi Raja Chakravarthi

14:00–16:00 *IIIT\_DWD@LT-EDI-EACL2021: Hope Speech Detection in YouTube multilingual comments*

SUNIL SAUMYA and ANKIT KUMAR MISHRA

14:00–16:00 *IRNLP\_DAIICT@LT-EDI-EACL2021: Hope Speech detection in Code Mixed text using TF-IDF Char N-grams and MuRIL*

Bhargav Dave, Shripad Bhat and Prasenjit Majumder

14:00–16:00 *ZYJ@LT-EDI-EACL2021: XLM-RoBERTa-Based Model with Attention for Hope Speech Detection*

Yingjia Zhao and Xin Tao

14:00–16:00 *TEAM HUB@LT-EDI-EACL2021: Hope Speech Detection Based On Pre-trained Language Model*

Bo Huang and Yang Bai

**Monday, April 19, 2021 (continued)**

- 14:00–16:00 *cs\_english@LT-EDI-EACL2021: Hope Speech Detection Based On Fine-tuning ALBERT Model*  
shi chen and bing kong
- 14:00–16:00 *GCDH@LT-EDI-EACL2021: XLM-RoBERTa for Hope Speech Detection in English, Malayalam, and Tamil*  
Stefan Ziehe, Franziska Pannach and Aravind Krishnan
- 14:00–16:00 *TeamUNCC@LT-EDI-EACL2021: Hope Speech Detection using Transfer Learning with Transformers*  
Khyati Mahajan, Erfan Al-Hossami and Samira Shaikh
- 14:00–16:00 *Autobots@LT-EDI-EACL2021: One World, One Family: Hope Speech Detection with BERT Transformer Model*  
Sunil Gundapu and Radhika Mamidi
- 14:00–16:00 *Amrita@LT-EDI-EACL2021: Hope Speech Detection on Multilingual Text*  
Thara S, Ravi teja Tasubilli and Kothamasu Sai rahul
- 14:00–16:00 *Hopeful Men@LT-EDI-EACL2021: Hope Speech Detection Using Indic Transliteration and Transformers*  
Ishan Sanjeev Upadhyay, Nikhil E, Anshul Wadhawan and Radhika Mamidi
- 14:00–16:00 *Hopeful NLP@LT-EDI-EACL2021: Finding Hope in YouTube Comment Section*  
Vasudev Awatramani
- 14:00–16:00 *NLP-CUET@LT-EDI-EACL2021: Multilingual Code-Mixed Hope Speech Detection using Cross-lingual Representation Learner*  
Eftekhari Hossain, Omar Sharif and Mohammed Moshiul Hoque
- 14:00–16:00 *Simon @ LT-EDI-EACL2021: Detecting Hope Speech with BERT*  
Qinyu Que
- 14:00–16:00 *MUCS@LT-EDI-EACL2021: CoHope-Hope Speech Detection for Equality, Diversity, and Inclusion in Code-Mixed Texts*  
Fazlourrahman Balouchzahi, Aparna B K and H L Shashirekha
- 14:00–16:00 *Spartans@LT-EDI-EACL2021: Inclusive Speech Detection using Pretrained Language Models*  
Megha Sharma and Gaurav Arora
- 14:00–16:00 *CFILT IIT Bombay@LT-EDI-EACL2021: Hope Speech Detection for Equality, Diversity, and Inclusion using Multilingual Representation from Transformers*  
Pankaj Singh, Prince Kumar and Pushpak Bhattacharyya

**Monday, April 19, 2021 (continued)**

14:00–16:00 *IITK@LT-EDI-EACL2021: Hope Speech Detection for Equality, Diversity, and Inclusion in Tamil , Malayalam and English*

Nikhil Ghanghor, Rahul Ponnusamy, Prasanna Kumar Kumaresan, Ruba Priyadharshini, Sajeetha Thavareesan and Bharathi Raja Chakravarthi

**16:00–17:00 Closing Remarks**