LTEDI 2023

Third Workshop on Language Technology for Equality, Diversity and Inclusion

associated with

The 14th International Conference on Recent Advances in Natural Language Processing RANLP'2023

PROCEEDINGS

September 7, 2023

Third Workshop on Language Technology for Equality, Diversity and Inclusion Associated with the International Conference Recent Advances in Natural Language Processing'2023

PROCEEDINGS

September 7, 2023

ISBN 978-954-452-084-7

Designed by INCOMA Ltd. Shoumen, BULGARIA

Message from the General Chair

Equality, Diversity and Inclusion (EDI) is an important agenda across every field throughout the world. Language as a major part of communication should be inclusive and treat everyone with equality. Today's large internet community uses language technology (LT) and has a direct impact on people across the globe. EDI is crucial to ensure everyone is valued and included, so it is necessary to build LT that serves this purpose. Recent results have shown that big data and deep learning are entrenching existing biases and that some algorithms are even naturally biased due to problems such as 'regression to the mode'. Our focus is on creating LT that will be more inclusive of gender, racial, sexual orientation, persons with disability. The workshop will focus on creating speech and language technology to address EDI not only in English, but also in less resourced languages.

Organizing Committee

Bharathi Raja Chakravarthi, University of Galway, Ireland B Bharathi, SSN College of Engineering, Tamil Nadu, India Josephine Griffith, University of Galway, Ireland Kalika Bali, Microsoft Research, India Paul Buitelaar, University of Galway, Ireland

Programme Committee

Adarsh Sahu, National Institute of Technology Karnataka, India Andrew Nedilko, Workhuman Angel Deborah, SSN College of Engineering, India Ankitha Reddy, SSN College of Engineering, India Asha Hegde, Mangalore University, India Balasubramanian Palani, National Institute of Technology, Tiruchirappalli, India Bertille Triboulet, University of Geneva Christina Christodoulou, Institute of Informatics and Telecommunications, National Centre for Scientific Research. Demokritos Debora Nozza, Bocconi University Deepalakshmi Manikandan, Kongu Engineering College, India Eduardo Garcia, Federal University of Goias Ilia Markov, Vrije Universiteit Amsterdam, CLTL Ishan Sanjeev Upadhyay, IIIT Hyderabad, India Jaya Caporusso, Jozef Stefan International Postgraduate School Jerin Mahibha C, Meenakshi Sundararajan Engineering College, India Jose Antonio Garcia-Diaz, Universidad de Murcia Judith Jeyafreeda Andrew, University of Manchester Juliana Gomes, Federal University of Goias Jyoti Kumari, Siksha 'O' Anusandhan Deemed to be University Kavya G, Mangalore University, India Kayalvizhi S, SSN College of Engineering, India Kirti Kumari, Indian Institute of Information Technology, Ranchi, India Kogilavani S V, Kongu Engineering College, India KV Aditya Srivatsa, International Institute of Information Technology Hyderabad, India Malliga S, Kongu Engineering College, India Manikandan Ravikiran, Georgia Institute of Technology, Hitachi India Pvt Ltd Maria de Jesus Garcia Santiago, Centro de Investigacion en Matematicas Momchil Hardalov, AWS AI Labs Nandhini Kumaresh, Central University of TamilNadu, India Nerses Yuzbashyan, CLiPS, University of Antwerp, Antwerp, Belgium Nicola Fanton, University of Stuttgart Nikolay Banar, Computational Linguistics Group (CLiPS), Antwerp Centre for Digital humanities and literary Criticism (ACDC), University of Antwerp Nitesh Jindal, University of Galway, Ireland Pierrette Bouillon, UNIGE FTI Prasanna Kumar Kumaresan, Insight SFI Research Centre for Data Analytics, Data Science Institute, University of Galway, Ireland

Priyadharshini Thandavamurthi, SSN College of Engineering, India Rafael Valencia-Garcia, Universidad de Murcia Rahul Ponnusamy, Insight SFI Research Centre for Data Analytics, University of Galway, Ireland Rajalakshmi Sivanaiah, Sri Sivasubramaniya Nadar College of Engineering, India Rajeswari Natarajan, SASTRA Deemed to be University Ranganavaki EM, College of Engineering, Guindy, Anna University, India Riza Batista-Navarro, Department of Computer Science, The University of Manchester Ruba Priyadharshini, ULTRA Arts and Science College, India Sajeetha Thavareesan, Eastern University, Sri Lanka Salud Maria Jimenez Zafra, Universidad de Jaen Samyuktaa Sivakumar, SSN College of Engineering, India Sanjana Kavatagi, VTU, Belagavi Saranya S, SSN College of Engineering, India Senthil Kumar B, Sri Sivasubramaniya Nadar College of Engineering, India Shankar Biradar, Indian Institute of Information Technology (IIIT), Dharwad, India Sharal Coelho, Mangalore University, India Shweta Soundararajan, Technological University Dublin, Ireland Shwetha Sureshnathan, SSN College of Engineering, India Sidney Wong, University of Canterbury Sripriya Natarajan, SSN College of Engineering, India SUBALALITHA CN, SRM Institute of Science and Technology, India Suhasini S, SSN College of Engineering, India Sulaksha B K, Meenakshi Sundararajan Engineering College, Anna University at Tamil Nadu, India SUNIL SAUMYA, Indian Institute of Information Technology (IIIT), Dharwad, India Thenmozhi D, SSN College of Engineering, India Thi Hong Hanh Tran, La Rochelle University Vairativa Vairobol, Delhi University South Campus, India VASANTHARAN K, Kongu Engineering College, India

Table of Contents

An Exploration of Zero-Shot Natural Language Inference-Based Hate Speech Detection Nerses Yuzbashyan, Nikolay Banar, Ilia Markov and Walter Daelemans
<i>English2BSL: A Rule-Based System for Translating English into British Sign Language</i> Phoebe Alexandra Pinney and Riza Batista-Navarro
Multilingual Models for Sentiment and Abusive Language Detection for Dravidian Languages Anand Kumar M. 17
Overview of the shared task on Detecting Signs of Depression from Social Media TextKayalvizhi S, Thenmozhi D., Bharathi Raja Chakravarthi, Jerin Mahibha C, Kogilavani S V andPratik Anil Rahood25
Overview of the Second Shared Task on Speech Recognition for Vulnerable Individuals in Tamil Bharathi B, Bharathi Raja Chakravarthi, SUBALALITHA CN, Sripriya Natarajan, Rajeswari Natarajan, S Suhasini and Swetha Valli
<i>Overview of Second Shared Task on Homophobia and Transphobia Detection in Social Media Comments</i> Bharathi Raja Chakravarthi, Rahul Ponnusamy, Malliga S, Paul Buitelaar, miguel angel Garc´ıa- Cumbreras, Salud Mar´ıa Jimenez-Zafra, Jose Antonio Garcia-Diaz, Rafael Valencia-Garcia and Nitesh Jindal
Overview of the Shared Task on Hope Speech Detection for Equality, Diversity, and Inclusion Prasanna Kumar Kumaresan, Bharathi Raja Chakravarthi, SUBALALITHA CN, Miguel Ángel García-Cumbreras, Salud María Jiménez Zafra, José Antonio García-Díaz, Rafael Valencia-García, Mom- chil Hardalov, Ivan Koychev, Preslav Nakov, Daniel García-Baena and Kishore Kumar Ponnusamy47
Computer, enhence: POS-tagging improvements for nonbinary pronoun use in Swedish Henrik Björklund and Hannah Devinney
Evaluating the Impact of Stereotypes and Language Combinations on Gender Bias Occurrence in NMT Generic Systems Bertille Triboulet and Pierrette Bouillon 62
KaustubhSharedTask@LT-EDI 2023: Homophobia-Transphobia Detection in Social Media Comments with NLPAUG-driven Data Augmentation Kaustubh Lande, Rahul Ponnusamy, Prasanna Kumar Kumaresan and Bharathi Raja Chakravarthi 71
JudithJeyafreeda@LT-EDI-2023: Using GPT model for recognition of Homophobia/Transphobia detec- tion from social media Judith Jeyafreeda Andrew
<i>iicteam@LT-EDI-2023: Leveraging pre-trained Transformers for Fine-Grained Depression Level De- tection in Social Media</i> Vajratiya Vajrobol, Nitisha Aggarwal and Karanpreet Singh
JA-NLP@LT-EDI-2023: Empowering Mental Health Assessment: A RoBERTa-Based Approach for Depression Detection Jyoti Kumari and Abhinav Kumar

<i>Team-KEC@LT-EDI: Detecting Signs of Depression from Social Media Text</i> Malliga S, Kogilavani Shanmugavadivel, Arunaa S, Gokulkrishna R and Chandramukhii A 97
cantnlp@LT-EDI-2023: Homophobia/Transphobia Detection in Social Media Comments using Spatio- Temporally Retrained Language Models Sidney Wong, Matthew Durward, Benjamin Adams and Jonathan Dunn
NLP_CHRISTINE@LT-EDI-2023: RoBERTa & DeBERTa Fine-tuning for Detecting Signs of Depression from Social Media Text Christina Christodoulou 109
IIITDWD@LT-EDI-2023 Unveiling Depression: Using pre-trained language models for Harnessing Domain-Specific Features and Context Information Shankar Biradar, Sunil Saumya and Sanjana Kavatagi
CIMAT-NLP@LT-EDI-2023: Finegrain Depression Detection by Multiple Binary Problems Approach María de Jesús García Santiago, Fernando Sánchez Vega and Adrián Pastor López Monroy 124
SIS@LT-EDI-2023: Detecting Signs of Depression from Social Media Text Sulaksha B K, Shruti Krishnaveni S, Ivana Steeve and Monica Jenefer B
TEAM BIAS BUSTERS@LT-EDI-2023: Detecting Signs of Depression with Generative Pretrained Trans- formers
Andrew Nedilko
RANGANAYAKI@LT-EDI: Hope Speech Detection using Capsule Networks Ranganayaki EM, Abirami Murugappan, Lysa Packiam R S and Deivamani M144
TechSSN1@LT-EDI-2023: Depression Detection and Classification using BERT Model for Social Media Texts
Venkatasai Ojus Yenumulapalli, Vijai Aravindh R, Rajalakshmi Sivanaiah and Angel Deborah S 149
SANBAR@LT-EDI-2023:Automatic Speech Recognition: vulnerable old-aged and transgender people in Tamil
Saranya S and Bharathi B 155
ASR_SSN_CSE@LTEDI- 2023: Pretrained Transformer based Automatic Speech Recognition system for Elderly People
Suhasini S and Bharathi B 161
SSNTech2@LT-EDI-2023: Homophobia/Transphobia Detection in Social Media Comments Using Lin- ear Classification Techniques
Vaidhegi D, Priya M, Rajalakshmi Sivanaiah, Angel Deborah S and Mirnalinee ThankaNadar. 166
IJS@LT-EDI : Ensemble Approaches to Detect Signs of Depression from Social Media Text Jaya Caporusso, Thi Hong Hanh Tran and Senja Pollak
VEL@LT-EDI-2023: Automatic Detection of Hope Speech in Bulgarian Language using Embedding Techniques
Rahul Ponnusamy, Malliga S, Sajeetha Thavareesan, Ruba Priyadharshini and Bharathi Raja Chakravarthi 179

Cordyceps@LT-EDI: Patching Language-Specific Homophobia/Transphobia Classifiers with a Multilin- gual Understanding Dean Ninalga
Cordyceps@LT-EDI : Depression Detection with Reddit and Self-training Dean Ninalga
<i>TechWhiz@LT-EDI-2023: Transformer Models to Detect Levels of Depression from Social Media Text</i> Madhumitha M, Jerin Mahibha C and Thenmozhi D
CSE_SPEECH@LT-EDI-2023Automatic Speech Recognition vulnerable old-aged and transgender peo- ple in Tamil Varsha Balaji, Archana JP and Bharathi B
VTUBGM@LT-EDI-2023: Hope Speech Identification using Layered Differential Training of ULMFit Sanjana M. Kavatagi, Rashmi R. Rachh and Shankar S. Biradar
ML&AI_IIITRanchi@LT-EDI-2023: Identification of Hope Speech of YouTube comments in Mixed Lan- guages Kirti Kumari, Shirish Shekhar Jha, Zarikunte Kunal Dayanand and Praneesh Sharma
ML&AI_IIITRanchi@LT-EDI-2023: Hybrid Model for Text Classification for Identification of Various Types of Depression Kirti Kumari, Shirish Shekhar Jha, Zarikunte Kunal Dayanand and Praneesh Sharma
VEL@LT-EDI: Detecting Homophobia and Transphobia in Code-Mixed Spanish Social Media Com- ments Prasanna Kumar Kumaresan, Kishore Kumar Ponnusamy, Kogilavani S V, SUBALALITHA CN, Ruba Priyadharshini and Bharathi Raja Chakravarthi
<i>TechSSN4@LT-EDI-2023: Depression Sign Detection in Social Media Postings using DistilBERT Model</i> Krupa Elizabeth Thannickal, Sanmati P, Rajalakshmi Sivanaiah and Angel Deborah S
The Mavericks@LT-EDI-2023: Detection of signs of Depression from social Media Texts using Navie Bayse approach Sathvika V S, Vaishnavi Vaishnavi S, Angel Deborah S, Rajalakshmi Sivanaiah and Mirnalinee ThankaNadar
<i>hate-alert@LT-EDI-2023: Hope Speech Detection Using Transformer-Based Models</i> Mithun Das, Shubhankar Barman and Subhadeep Chatterjee
<i>TERCET@LT-EDI-2023: Hope Speech Detection for Equality, Diversity, and Inclusion</i> Priyadharshini Thandavamurthi, Samyuktaa Sivakumar, Shwetha Sureshnathan, Thenmozhi D., Bharathi B and Gayathri GL
Interns@LT-EDI : Detecting Signs of Depression from Social Media Text Koushik L, Hariharan R. L and Anand Kumar M
<i>Tercet@LT-EDI-2023: Homophobia/Transphobia Detection in social media comment</i> Shwetha Sureshnathan, Samyuktaa Sivakumar, Priyadharshini Thandavamurthi, Thenmozhi D., Bharathi B and KIRUTHIKA Chandrasekaran

DeepLearningBrasil@LT-EDI-2023: Exploring Deep Learning Techniques for Detecting Depression in Social Media Text	1
Eduardo Garcia, Juliana Gomes, Adalberto Ferreira Barbosa Junior, Cardeque Henrique Bittes de	
Alvarenga Borges and Nadia Félix Felipe da Silva	2
MUCS@LT-EDI2023: Learning Approaches for Hope Speech Detection in Social Media Text	
Asha Hegde, Kavya G, Sharal Coelho and Hosahalli Lakshmaiah Shashirekha)
MUCS@LT-EDI2023: Homophobic/Transphobic Content Detection in Social Media Text using mBERT	<u>r</u>
Asha Hegde, Kavya G, Sharal Coelho and Hosahalli Lakshmaiah Shashirekha	7
MUCS@LT-EDI2023: Detecting Signs of Depression in Social Media Text	
Sharal Coelho, Asha Hegde, Kavya G and Hosahalli Lakshmaiah Shashirekha	5
KEC_AI_NLP_DEP @ LT-EDI : Detecting Signs of Depression From Social Media Texts	
KOGILAVANI SHANMUGAVADIVEL, MALLIGA SUBRAMANIAN, VASANTHARAN K, PR	
GA, SANKAR S and SABARI S)
Flamingos_python@LT-EDI-2023: An Ensemble Model to Detect Severity of Depression	
Abirami P S, Amritha S, Pavithra Meganathan and Jerin Mahibha C	7