

DravidianLangTech 2022

**The Second Workshop on Speech and Language Technologies  
for Dravidian Languages**

**Proceedings of the Workshop**

May 26, 2022

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## In cooperation with



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## Introduction

We are excited to welcome you to DravidianLangTech 2022, the 60th Annual Meeting of the Association for Computational Linguistics. This year the workshop is being held hybrid (online and at Dublin), on May 26, 2022 with ACL 2022 that will take place also hybrid May 22-27, 2022.

The development of technology increases our internet use, and most of the global languages have adapted themselves to the digital era. However, many regional, under-resourced languages face challenges as they still lack developments in language technology. One such language family is the Dravidian (Tamil) family of languages. Dravidian is the name for the Tamil languages or Tamil people in Sanskrit, and all the current Dravidian languages were called a branch of Tamil in old Jain, Bhraminic, and Buddhist literature (Caldwell, 1875). Tamil languages are primarily spoken in south India, Sri Lanka, and Singapore. Pockets of speakers are found in Nepal, Pakistan, Malaysia, other parts of India, and elsewhere globally. The Tamil languages, which are 4,500 years old and spoken by millions of speakers, are under-resourced in speech and natural language processing. The Dravidian languages were first documented in Tamili script on pottery and cave walls in the Keezhadi (Keeladi), Madurai and Tirunelveli regions of Tamil Nadu, India, from the 6th century BCE. The Tamil languages are divided into four groups: South, South-Central, Central, and North groups. Tamil morphology is agglutinating and exclusively suffixal. Syntactically, Tamil languages are head-final and left-branching. They are free-constituent order languages. To improve access to and production of information for monolingual speakers of Dravidian (Tamil) languages, it is necessary to have speech and languages technologies. These workshops aim to save the Dravidian languages from extinction in technology.

This is the first workshop on speech and language technologies for Dravidian languages. The broader objective of DravidianLangTech-2021 was

To investigate challenges related to speech and language resource creation for Dravidian languages.

To promote a research in speech and language technology in Dravidian languages.

To adopt appropriate language technology models which suit Dravidian languages.

To provide opportunities for researchers from the Dravidian language community from around the world to collaborate with other researchers

Bharathi Raja Chakravarthi, Ruba Priyadharshini, Anand Kumar Madasamy, Parameswari Krishnamurthy, Elizabeth Sherly, Sinnathamby Mahesan, General Chair

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## Program Committee

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# Keynote Talk: Development of e-resources for Tulu – An Under-resourced Language

Shashirekha HL  
Mangalore University

**Abstract:** Tulu is one of the Dravidian languages predominantly spoken in Southern part of India, mainly by the people of Dakshina Kannada, Udupi and some places of Kasaragod. More than 2.5 million people speak Tulu and they consider it as their mother tongue. Tulu speaking community with its distinct sociocultural traits, religious practices, artistic traditions and theatrical forms has made significant contribution to the cultural heritage of Karnataka and through it to the totality of Indian culture and civilization. Even though Tulu has its own script called ‘Tigalari’, most people predominantly use Kannada script to write Tulu articles. Tulu is a free word order language with a high level of agglutination and rich morphological structure and follow similar strategy for its phonology like other Dravidian languages. A word is formed by adding suffixes or prefixes to the root word in a series similar to other Dravidian languages and the word complexity increases with the number of prefixes and/or suffixes where suffixes indicate the number, tense, case and gender related information. Verbs have both affirmative and negative voice and with verb-final inflectional patterns, Tulu is an inflectional language like Kannada.

In spite of several literary works in Tulu, digital presence of Tulu is almost zero making it an under-resourced language. The size of Tulu Wikipedia text and Tulu text corpus are of very less size making it difficult to construct datasets for any applications. BPEmb - pre-trained subword embeddings with a vocabulary of size 10,000 and fasttext - pre-trained word vectors, are the only digital resources available for Tulu natural language processing. Due to lack of resources, computational tools such as Morphological Generator and Analyser, POS tagger, NER and so on and applications such as Sentiment analysis, Offensive language identification, Fake news and are not available for Tulu. This talk addresses the needs and the possible solutions for the development of resources, tools and applications for Tulu language.

**Bio:** Professor, Department of Computer Science, Mangalore University, Mangalore



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# Program

**Thursday, May 26, 2022**

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09:30 - 10:00 *Keynote*

10:00 - 11:00 *Multitask and Multimodal Learning in Dravidian Languages*

*Findings of the Shared Task on Multi-task Learning in Dravidian Languages*

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*A Dataset for Detecting Humor in Telugu Social Media Text*

Sriphani Vardhan Bellamkonda, Maithili Lohakare and Shaswat P Patel

11:00 - 11:30 *Break*

11:00 - 13:00 *Identifying Emotions, Troll, Abuse and Offensive Contents in Dravidian Languages*

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*Sentiment Analysis on Code-Switched Dravidian Languages with Kernel Based Extreme Learning Machines*

Mithun Kumar S R, Lov Kumar and Aruna Malapati

13:00 - 14:00 *Break*

14:00 - 17:00 *Poster Session: Shared Task Papers*

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Shantanu Patankar, Omkar Bhushan Gokhale, Onkar Rupesh Litake, Aditya Mandke and Dipali Kadam

*DLRG@TamilNLP-ACL2022: Offensive Span Identification in Tamil using BiLSTM-CRF approach*

Ratnavel Rajalakshmi, Mohit Madhukar More, Bhamatipati Naga Shrikriti, Gitansh Saharan, Hanchate Sanyuktha and Sayantan Nandy



Thursday, May 26, 2022 (continued)

*DE-ABUSE@TamilNLP-ACL 2022: Transliteration as Data Augmentation for Abuse Detection in Tamil*

Vasanth Palanikumar, Sean Benhur, Adeep Hande and Bharathi Raja Chakravarthi

*UMUTeam@TamilNLP-ACL2022: Emotional Analysis in Tamil*

José Antonio García-Díaz, Miguel Ángel Rodríguez García and Rafael Valencia-García

*UMUTeam@TamilNLP-ACL2022: Abusive Detection in Tamil using Linguistic Features and Transformers*

José Antonio García-Díaz, Manuel Valencia-Garcia and Rafael Valencia-García

*JudithJeyafreedaAndrew@TamilNLP-ACL2022: CNN for Emotion Analysis in Tamil*

Judith Jeyafreeda Andrew

*CEN-Tamil@DravidianLangTech-ACL2022: Abusive Comment detection in Tamil using TF-IDF and Random Kitchen Sink Algorithm*

Prasanth S N, R Aswin Raj, Adhithan P, Premjith B and Soman KP

*GJG@TamilNLP-ACL2022: Emotion Analysis and Classification in Tamil using Transformers*

Janvi Prasad, Gaurang Prasad and Gunavathi C

*PANDAS@TamilNLP-ACL2022: Emotion Analysis in Tamil Text using Language Agnostic Embeddings*

Divyasri K, Gayathri G L, Krithika Swaminathan, Thenmozhi Durairaj, Bharathi B and Senthil Kumar B

*SSNCSE\_NLP@TamilNLP-ACL2022: Transformer based approach for Emotion analysis in Tamil language*

Bharathi B and Josephine Varsha

*MUCS@DravidianLangTech@ACL2022: Ensemble of Logistic Regression Penalties to Identify Emotions in Tamil Text*

Asha Hegde, Sharal Coelho and Hosahalli Lakshmaiah Shashirekha

*Varsini\_and\_Kirthanna@DravidianLangTech-ACL2022-Emotional Analysis in Tamil*

Varsini S, Kirthanna Rajan, Angel Deborah S, Rajalakshmi Sivanaiah, Sakaya Milton Rajendram and Mirnalinee T T

*CUET-NLP@TamilNLP-ACL2022: Multi-Class Textual Emotion Detection from Social Media using Transformer*

Nasehatul Mustakim, Rabeya Akter Rabu, Golam Sarwar Md. Mursalin, Eftekhari Hossain, Omar Sharif and Mohammed Moshiul Hoque

*Optimize\_Prime@DravidianLangTech-ACL2022: Emotion Analysis in Tamil*

Omkar Bhushan Gokhale, Shantanu Patankar, Onkar Rupesh Litake, Aditya Mandke and Dipali Kadam

**Thursday, May 26, 2022 (continued)**

17:00 - 17:15     *Meeting, Awards, Closing (TBD)*