

DravidianLangTech 2022

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

Proceedings of the Workshop

May 26, 2022

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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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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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Thursday, May 26, 2022

09:15 - 09:30 *Opening Remarks*

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

Bharathi Raja Chakravarthi, Ruba Priyadharshini, Subalalitha CN, Sangeetha S, Malliga Subramanian, Kogilavani Shanmugavadivel, Parameswari Krishnamurthy, Adeep Hande, Siddhanth U Hegde, Roshan Nayak and Swetha Valli

MuCoT: Multilingual Contrastive Training for Question-Answering in Low-resource Languages

Gokul Karthik Kumar, Abhishek Singh Gehlot, Sahal Shaji Mullappilly and Karthik Nandakumar

Findings of the Shared Task on Multimodal Sentiment Analysis and Troll Meme Classification in Dravidian Languages

Premjith B, Bharathi Raja Chakravarthi, Malliga Subramanian, Bharathi B, Soman KP, Dhanalakshmi V, Sreelakshmi K, Arunaggiri Pandian and Prasanna Kumar Kumaresan

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*

Findings of the Shared Task on Offensive Span Identification from Code-Mixed Tamil-English Comments

Manikandan Ravikiran, Bharathi Raja Chakravarthi, Anand Kumar Madasamy, Sangeetha S, Ratnavel Rajalakshmi, Sajeetha Thavareesan, Rahul Ponnusamy and Shankar Mahadevan

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BERT-Based Sequence Labelling Approach for Dependency Parsing in Tamil

C S Ayush Kumar, Advait Das Maharana, Srinath Murali, Premjith B and Soman KP

Zero-shot Code-Mixed Offensive Span Identification through Rationale Extraction

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TamilATIS: Dataset for Task-Oriented Dialog in Tamil

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Findings of the Shared Task on Emotion Analysis in Tamil

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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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Janvi Prasad, Gaurang Prasad and Gunavathi C

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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 Moshikul 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)*