

DravidianLangTech 2023

**Third Workshop on Speech and Language Technologies for
Dravidian Languages**

associated with

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

PROCEEDINGS

September 7, 2023

THIRD WORKSHOP ON SPEECH AND LANGUAGE TECHNOLOGIES FOR
DRAVIDIAN LANGUAGES
ASSOCIATED WITH THE INTERNATIONAL CONFERENCE
RECENT ADVANCES IN NATURAL LANGUAGE PROCESSING' 2023

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Message from the General Chair

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 underresourced 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.

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- Bharathi Raja Chakravarthi, School of Computer Science, University of Galway, Ireland
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- Kogilavani S V, Kongu Engineering College, India
- Richard Saldanha, National Institute of Technology Karnataka, India
- Hosahalli Lakshmaiah Shashirekha, Mangalore University, India
- Poorvi Shetty, JSS Science and Technology University
- Rajalakshmi Sivanaiah, SSN College of Engineering, India
- Musica Supriya, Manipal Institute of Technology, Manipal Academy of Higher Education
- Anil Kumar Vuppala, International Institute of Information Technology Hyderabad, India
- Mesay Gameda Yigezu, Computer Research Center, National Polytechnic Institute

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Thursday, September 07, 2023

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Manikandan Ravikiran and Bharathi Raja Chakravarthi
- 14:37–14:44 *Hate and Offensive Keyword Extraction from CodeMix Malayalam Social Media Text Using Contextual Embedding*
Mariya Raphel, Premjith B, Sreelakshmi K and Bharathi Raja Chakravarthi
- 14:44–14:51 *Acoustic Analysis of the Fifth Liquid in Malayalam*
Punnoose A K
- 14:51–14:58 *Transformer-based Context Aware Morphological Analyzer for Telugu*
Priyanka Dasari, Abhijith Chelpuri, Nagaraju Vuppala, Mounika Marreddy, Parameshwari Krishnamurthy and Radhika Mamidi
- 14:58–15:05 *Improving Reinforcement Learning Agent Training using Text based Guidance: A study using Commands in Dravidian Languages*
Nikhil Chowdary Paleti, Sai Aravind Vadlapudi, Sai Aashish Menta, Sai Akshay Menta, Vishnu Vardhan Gorantla V N S L, Janakiram Chandu, Soman K P and Sachin Kumar S
- 15:05–15:12 *Social Media Data Analysis for Malayalam YouTube Comments: Sentiment Analysis and Emotion Detection using ML and DL Models*
Abeera V P, Dr. Sachin Kumar and Dr. Soman K P
- 15:12–15:19 *Findings of the Second Shared Task on Offensive Span Identification from Code-Mixed Tamil-English Comments*
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- 15:19–15:26 *Overview of the shared task on Fake News Detection from Social Media Text*
Malliga S, Bharathi Raja Chakravarthi, Kogilavani S V, Santhiya Pandiyan, Prasanna Kumar Kumaresan, Balasubramanian Palani and Muskaan Singh
- 15:26–15:33 *Findings of the Shared Task on Sentiment Analysis in Tamil and Tulu Code-Mixed Text*
Asha Hegde, Bharathi Raja Chakravarthi, Hosahalli Lakshmaiah Shashirekha, Rahul Ponnusamy, SUBALALITHA CN, Lavanya S K, Thenmozhi D., Martha Karunakar, Shreya Shreeram and Sarah Aymen
- 15:33–15:40 *Findings of the Shared Task on Multimodal Abusive Language Detection and Sentiment Analysis in Tamil and Malayalam*
Premjith B, Jyothish Lal G, Sowmya V, Bharathi Raja Chakravarthi, Rajeswari Natarajan, Nandhini K, Abirami Murugappan, Bharathi B, Kaushik M, Prasanth SN, Aswin Raj R and Vijai Simmon S

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15:40–15:46 *Overview of Shared-task on Abusive Comment Detection in Tamil and Telugu*
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Kogilavani S V, Premjith B, Abirami Murugappan and Prasanna Kumar Kumaresan

15:47–15:50 *CoPara: The First Dravidian Paragraph-level n-way Aligned Corpus*
Nikhil E, Mukund Choudhary and Radhika Mamidi

15:50–15:53 *ChatGPT_Powered_Tourist_Aid_Applications__Proficient_in_Hindi__Yet_To_Master_Telugu_and_Ka*
Sanjana Kolar and Rohit Kumar

15:53–15:56 *Enhancing Telugu News Understanding: Comparative Study of ML Algorithms for Category Prediction*
Manish Rama Gopal Nadella, Venkata Krishna Rayalu Garapati, Eswar Sudhan S.K., Gouthami Jangala, Soman K.P. and Sachin Kumar

15:56–16:00 *Revisiting Automatic Speech Recognition for Tamil and Hindi Connected Number Recognition*
Rahul Mishra, Senthil Raja Gunaseela Boopathy, Manikandan Ravikiran, Shreyas Kulkarni, Mayurakshi Mukherjee, Ananth Ganesh and Kingshuk Banerjee

16:30–17:30 Poster Presentation

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16:30–17:30 *Poorvi@DravidianLangTech: Sentiment Analysis on Code-Mixed Tulu and Tamil Corpus*
Poorvi Shetty

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Atharva Joshi, Narayan Subramanian and Ratnavel Rajalakshmi
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Kogilavani Shanmugavadivel, Malliga Subramanian, Shri Durga R, SRIGHA S, Sree Harene J S and Yasvanth Bala P
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Kogilavani Shanmugavadivel, Malliga Subramanian, VetriVendhan S, Pramoth Kumar M, Karthickeyan S and Kavim Vishnu N

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16:30–17:30 *CSSCUTN@DravidianLangTech:Abusive comments Detection in Tamil and Telugu*
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