



Machine Translation & NLP Lab @ Language Technologies Research Center, IIT Hyderabad

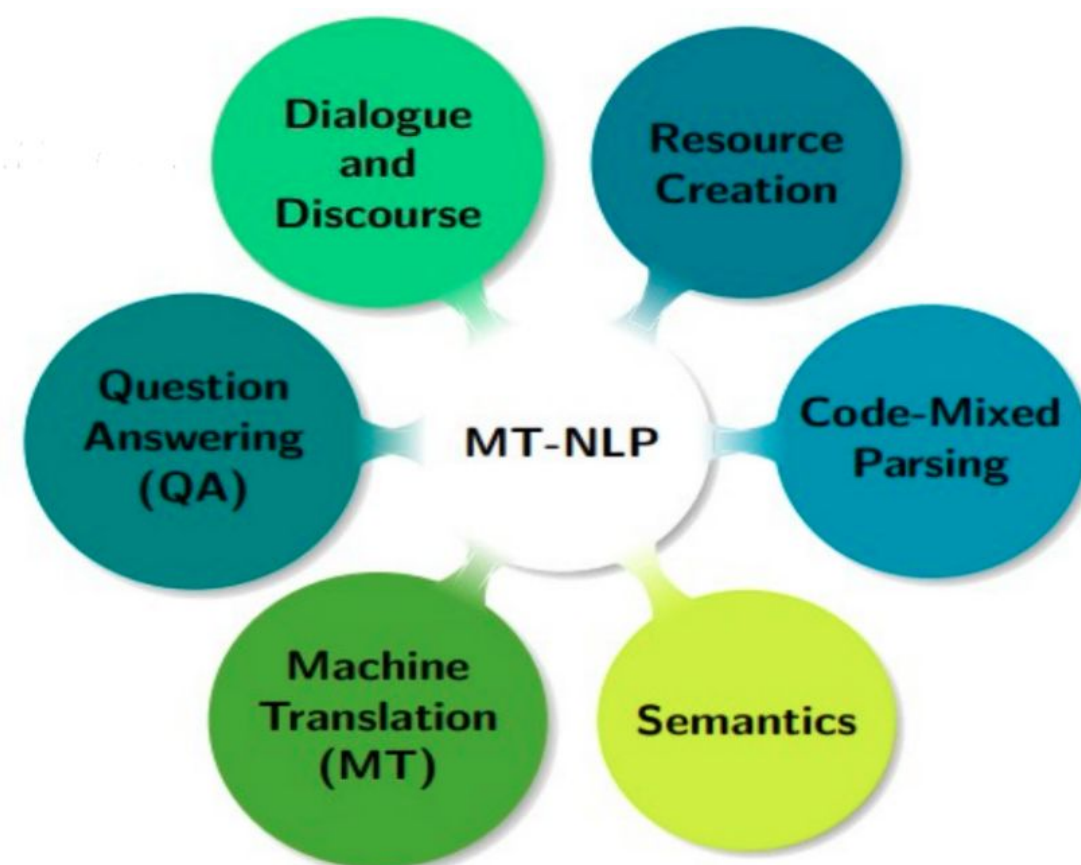
About Lab

The MT-NLP lab does fundamental work on developing grammatical as well statistical modelling of languages. Linguistic approaches are combined with machine learning techniques leading to new theories and technology development. This has resulted in higher accuracy parts-of-speech taggers, chunkers, constraint-based parsers as well as broad coverage statistical parsers, and semantic analyzers for Indian languages on the one hand, and annotated data including dependency tree banks, discourse banks, parallel corpora, etc. on the other. We also have many Industry tie-ups in order to understand their requirements and deploy different language technologies.

Faculty

Prof. Dipti Misra Sharma
Prof. Vineet Chaitanya
Prof. Aditi Mukherjee (Visiting
Faculty)
Dr. Radhika Mamidi

Prof. Rajeev Sangal
Dr. Soma Paul (On Leave)
Dr. Manish Shrivastava



Major Projects

Manual Translation of Swayam Lecture Videos
Bahubhashak Pilot - Speech to Speech Machine Translation
Indian Language to Indian Language Machine Translation System (IL-ILMT) Phase-II
English to Indian Language Machine Translation System (E-ILMT) Phase-II
Hindi Dependency Treebank (HDTB) - Collaborative Research: A MultiRepresentational and Multi-Layered Treebank for Hindi/Urdu.
Treebanks in Indian Languages (TBIL) - Treebanks for Bengali, Hindi, Kannada, Malayalam and Marathi.
Hindi to English Human Aided Machine Translation (HEMAT)
Virtual assistant for mobile devices using voice and gesture technologies from ITRA, MediaLabAsia

Publications (selected publications)

Payal Khullar, Arghya Bhattacharya, Manish Shrivastava. Finding the Right One and Resolving it. CoNLL-2020
Vikrant Goyal, Pruthwik Mishra, Dipti Misra Sharma. Linguistically Informed Hindi-English Neural Machine Translation. LREC-2020
Vandan Mujadia, Dipti Misra Sharma. NMT based Similar Language Translation for Hindi - Marathi. WMT@EMNLP 2020
Mohit Chandra, Ashwin Pathak, Eesha Dutta, Paryul Jain, Manish Gupta, Manish Shrivastava, Ponnurangam Kumaraguru. AbuseAnalyzer: Abuse Detection, Severity and Target Prediction for Gab Posts. COLING 2020
Kartikey Pant, Tanvi Dadu, Radhika Mamidi.
BERT-based Ensembles for Modeling Disclosure and Support in Conversational Social Media Text. AffCon@AAAI 2020
Arijit Srivastava, Avijit Vajpayee, Syed Sarfaraz Akhtar, Naman Jain, Vinay Singh, Manish Shrivastava. A Multi-Dimensional View of Aggression when voicing Opinion. TRAC@LREC 2020
Adithya Avvaru, Sanath Vobilisetty, Radhika Mamidi. Detecting Sarcasm in Conversation Context Using Transformer-Based Models. Fig-Lang@ACL 2020
Sneha Nallani, Manish Shrivastava, Dipti Misra Sharma. A Simple and Effective Dependency Parser for Telugu. ACL SRW 2020
Ananya Mukherjee, Hema Ala, Manish Shrivastava, Dipti Misra Sharma. MEE : An Automatic Metric for Evaluation Using Embeddings for Machine Translation. DSAA 2020
Kartikey Pant, Yash Verma, Radhika Mamidi. SentInc: Incorporating Sentiment Information into Sentiment Transfer Without Parallel Data. ECIR 2020

For complete list of publications and theses, visit at:
http://web2py.iiit.ac.in/research_centres/publications
Kindly visit us at: <https://ltrc.iiit.ac.in/nlpmt/>