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19th International Conference on Natural Language Processing



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Keynotes

Personalised Longitudinal Natural Language Processing

Maria Liakata | Queen Mary University of London

Abstract: In most of the tasks and models that we have made great progress with in recent years, such as text classification and natural language inference, there isn't a notion of time. However many of these tasks are sensitive to changes and temporality in real world data, especially when pertaining to individuals, their behaviour and their evolution over time. I will present our programme of work on personalised longitudinal natural language processing. This consists in developing natural language processing methods to: (1) represent individuals over time from their language and other heterogenous and multi-modal content (2) capture changes in individuals' behaviour over time (3) generate and evaluate synthetic data from individuals' content over time (4) summarise the progress of an individual over time, incorporating information about changes. I will discuss progress and challenges this far as well as the implications of this programme of work for downstream tasks such as mental health monitoring.



Mitigating Risks while Forging Ahead with AI Progress

Pascale Fung | Hong Kong University of Science & Technology



Abstract: The accelerated progress in AI technology has provoked fears and controversy around their safe use. Some insist that we should not stop making scientific progress simply because of media pushback. Others seek to prevent further development of what they consider dangerous AI. I will present the case study of hallucination in large foundational models and its possible mitigation. Hallucination is the undesirable generation of content and is one of the most salient risks of one of the most powerful recent developments. I propose that it is possible to continue making AI progress while mitigating its risks.

(Un)fairness in Fairness Evaluation

Tim Baldwin | MBZUAI, Abu Dhabi

Abstract: Natural language processing (NLP) has made truly impressive progress in recent years, and is being deployed in an ever-increasing range of user-facing settings. Accompanied by this progress has been a growing realisation of inequities in the performance of naively-trained NLP models for users of different demographics, with minority groups typically experiencing lower performance levels. In this talk, I will discuss the complexities of the evaluation of model "fairness", and how standard evaluation practice has led to unfair/misleading claims in the literature.



Panel Discussion

"In the era of Transformers, would the classical NLP be at risk?"

Speakers

Tim Baldwin | MBZUAI, Abu Dhabi

Maria Liakata | Queen Mary University of London

Lipika Dey | TCS Research

Pushpak Bhattacharyya | IIT Bombay

Niladri Chatterjee | IIT Delhi

Moderator

Tanmoy Chakraborty | IIT Delhi

Rockstar Papers

Alignment-Augmented Consistent Translation for Multilingual Open Information Extraction

(ACL - 2022)

Keshav Kolluru, Muqeeth Mohammed, Shubham Mittal, Soumen Chakrabarti, Mausam

Abstract: Progress with supervised Open Information Extraction (OpenIE) has been primarily limited to English due to the scarcity of training data in other languages. In this paper, we explore techniques to automatically convert English text for training OpenIE systems in other languages. We introduce the Alignment-Augmented Constrained Translation (AACTrans) model to translate English sentences and their corresponding extractions consistently with each other — with no changes to vocabulary or semantic meaning which may result from independent translations. Using the data generated with AACTrans, we train a novel two-stage generative OpenIE model, which we call Gen2OIE, that outputs for each sentence: 1) relations in the first stage and 2) all extractions containing the relation in the second stage. Gen2OIE increases relation coverage using a training data transformation technique that is generalizable to multiple languages, in contrast to existing models that use an English-specific training loss. Evaluations on 5 languages — Spanish, Portuguese, Chinese, Hindi and Telugu — show that the Gen2OIE with AACTrans data outperforms prior systems by a margin of 6-25% in F1.

Multi Task Learning for Zero Shot Performance Prediction of Multilingual Models

(ACL - 2022)

Kabir Ahuja, Shanu Kumar, Sandipan Dandapat, Monojit Choudhury

Abstract: Massively Multilingual Transformer based Language Models have been observed to be surprisingly effective on zero-shot transfer across languages, though the performance varies from language to language depending on the pivot language(s) used for fine-tuning. In this work, we build upon some of the existing techniques for predicting the zero-shot performance on a task, by modeling it as a multi-task learning problem. We jointly train predictive models for different tasks which helps us build more accurate predictors for tasks where we have test data in very few languages to measure the actual performance of the model. Our approach also lends us the ability to perform a much more robust feature selection, and identify a common set of features that influence zero-shot performance across a variety of tasks.



Workshops, Tutorials and Shared Tasks

15th December 2022

(S) Word Level Language Identification in Code-mixed Kannada-English Texts

Organizers: Fazlourrahman Balouchzahi, Sabur Butt (Instituto Politécnico Nacional (IPN), Mexico); Noman Ashraf (Harvard Medical School, USA); Asha Hegde, Shashirekha Hosahalli Lakshmaiah (Mangalore University, India); Grigori Sidorov, Alexander Gelbukh (Instituto Politécnico Nacional (IPN), Mexico).

Ⓐ A006 Ⓜ R.M.

(T) Legal Text Analytics

Organizers: Vasudha Bhatnagar, Vikas Kumar (Dept of Computer Science, Faculty of Mathematical Sciences, University of Delhi); Balaji Ganesan (IBM Research, India); Muhammad Abulaish (South Asian University); Parikshet Sirohi, Ashwini Siwal (Law Center - II, Faculty of Law, University of Delhi).

Ⓐ A007 Ⓜ R.M.

(T) Knowledge Graph driven Business Text Processing

Organizers: Lipika Dey, Tirthankar Dasgupta (TCS Research).

Ⓐ A105 Ⓜ R.M.

(T) Dialog Systems: Trends and Challenges

Organizers: Siddhartha Mukherjee, Aniruddha Tammewar, Raghavendra H R, Sandeep Pandey, Abhijit Nargund, Rituraj Singh, Vivek Sridhar (Samsung Research, India).

Ⓐ A105 Ⓜ R.M. Ⓛ P.M.

(T) Advances in NLP Research for Automated Business Intelligence

Organizers: Vinayak Gupta, Rajmohan C, Ritwik Chaudhuri, Ankush Gupta, Balaji Ganesan, Arvind Agarwal, Sameep Mehta (IBM Research, India).

Ⓐ A105 Ⓜ P.M.

(W) Workshop on Multimodal Machine Learning in Low-resource Languages

Organizers: Bharathi Raja Chakravarthi (National University of Ireland Galway, Ireland); Abirami Murugappan (Anna University, India); Dhivya Chinnappa (Thomson Reuters, USA); Adeep Hande (Indiana University Bloomington, IN, USA); Shardul Suryawanshi (National University of Ireland Galway, Ireland).

Ⓐ A006 Ⓜ P.M.

(W) Workshop on AI and Law

Organizers: Ashutosh Modi, Abhinav Joshi (IIT Kanpur, India).

Ⓐ A007 Ⓜ P.M.

18th December 2022

(T) Towards Process Knowledge-infused Learning for Explainable Mental Healthcare

Organizers: Kaushik Roy (University of South Carolina); Manas Gaur (University of Maryland Baltimore County); Amit Sheth (University of South Carolina).

Ⓐ A007 Ⓜ R.M.

(T) Discourse Structure Analysis of Indian Languages (DSAIL 2022)

Organizers: Soma Paul (IIIT Hyderabad); Debopam Das (Humboldt University of Berlin, Germany).

Ⓐ A105 Ⓜ R.M. Ⓛ P.M.

(T) Social Bias Detection and Mitigation in Text

Organizers: Nihar Sahoo, Sandhya Singh, Prapti Roy, Niteesh Mallela, Himanshu Gupta, Pushpak Bhattacharyya (CFILT, Indian Institute of Technology Bombay).

Ⓐ A106 Ⓜ R.M.

(T) Text-guided Image Generation and Manipulation

Organizers: Abhishek Sharma and Achyut Saxena - Bobble AI.

Ⓐ A106 Ⓜ P.M.

(W) Natural Language Processing in Agriculture and Livestock Management

Organizers: Manjira Sinha (IIT Kharagpur, India); Tirthankar Dasgupta (TCS Research, India); Sanjay Chatterjee (IIIT Kalyani, India).

Ⓐ A006 Ⓜ R.M.

(W) Workshop on Context-aware NLP in eHealth

Organizers: Mohammed Hasanuzzaman (ADAPT Centre, Ireland); Gaël Dias (University of Caen Normandie, France); Jyoti Prakash Singh (NIT Patna, India).

Ⓐ A006 Ⓜ P.M.

(W) Workshop on Indian Code-mixed and Low-resource Natural Language Processing

(ICLrNLP)

Organizers: Md Shad Akhtar (IIIT Delhi, India).

Ⓐ A007 Ⓜ P.M.

(W): Workshops (T): Tutorials (S): Shared Tasks

Ⓐ R.M. : First Half Ⓛ P.M. : Second Half



Accepted Papers - Technical Sessions

16th December 2022

Session 1 - Machine Translation and Summarization

ⒶA006

15:20 - 15:35	"English To Indian Sign Language: Rule-Based Translation System Along With Multi-Word Expressions and Synonym Substitution" Abhigyan Ghosh, Radhika Mamidi
15:35 - 15:50	"Genre Transfer in NMT: Creating Synthetic Spoken Parallel Sentences using Written Parallel Data" Nalin Kumar, Ondrej Bojar
15:50 - 16:05	"Event Oriented Abstractive Summarization" Aafiya S Hussain, Talha Z Chafekar, Grishma Sharma, Deepak H Sharma
16:05 - 16:20	"Unsupervised Bengali Text Summarization Using Sentence Embedding and Spectral Clustering" Sohini Roychowdhury, Kamal Sarkar, Arka Maji

Session 2 - Machine Learning in NLP

ⒶA007

15:20 - 15:35	"Generalised Spherical Text Embedding" Souvik Banerjee, Bamdev Mishra, Pratik Jawanpuria, Manish Shrivastava
15:35 - 15:50	"CNN-Transformer based Encoder-Decoder Model for Nepali Image Captioning" Bipesh Subedi, Bal Krishna Bal
15:50 - 16:05	"Improved Contextualized Topic Models with Negative Sampling" Suman Adhya, Avishek Lahiri, Debarshi Kumar Sanyal, Partha Pratim Das
16:05 - 16:20	"DeepADA: An Attention-Based Deep Learning Framework for Augmenting Imbalanced Textual Datasets" Amit K Sah, Muhammad Abulaish

Session 3 - Sentiment and Question Answering

ⒶA105

15:20 - 15:35	"A Novel Approach towards Cross Lingual Sentiment Analysis using Transliteration and Character Embedding" Rajarshi Roychoudhury, Subhrajit Dey, Md Shad Akhtar, Amitava Das, Sudip Kumar Naskar
15:35 - 15:50	"Augmenting eBooks with recommended questions using contrastive fine-tuned T5" Shobhan Kumar, Arun Chauhan, Pavan Kumar
15:50 - 16:05	"TeQuAD : Telugu Question Answering Dataset" Rakesh Kumar Vemula, Mani Nuthi, Manish Srivastava

Session 4 - Discourse, Parsing, and Morphology

ⒶA106

15:20 - 15:35	"Verb Phrase Anaphora: Do(ing) so with Heuristics" Sandhya Singh, Kushagra Shree, Sriparna Saha, Pushpak Bhattacharyya, Gladwin Chinnadurai, Manish Vatsa
15:35 - 15:50	"KnowPAML: A Knowledge Enhanced Framework for Adaptable Personalized Dialogue Generation Using Meta-Learning" Aditya Shukla, Zishan Ahmad, Asif Ekbal
15:50 - 16:05	"Analysing Syntactic and Semantic Features in Pre-trained Language Models in a Fully Unsupervised Setting" Necva Bölcü, Burcu Can
16:05 - 16:20	"Spellchecker for Sanskrit: The Road Less Taken" Prasanna Venkatesh T S

17th December 2022

Session 5 - Text Generation and Speech

ⒶA006

14:00 - 14:15	"IAEmp: Intent-aware Empathetic Response Generation" Mrigank Tiwari, Vivek Dahiya, Om Prasad Mohanty, Girija Saride
14:15 - 14:30	"Knowledge Enhanced Deep Learning Model for Radiology Text Generation" Kaveri Kale, Pushpak Bhattacharya, Aditya Shetty, Milind Gune, Kush Shrivastava, Rustom Lawyer, Spiro Biswas
14:30 - 14:45	"PAR: Persona Aware Response in Conversational Systems" Abhijit A Nargund, Sandeep K Pandey, Jina Ham
14:45 - 15:00	"Methods to Optimize Wav2Vec with Language Model for Automatic Speech Recognition in Resource Constrained Environment" Vaibhav Haswani, Padmapriya Mohankumar



Session 6 - Information Extraction/Information Retrieval - I

ⒶA007

14:00 - 14:15	"EdgeGraph: Revisiting Statistical Measures for Language Independent Keyphrase Extraction Leveraging on Bi-grams" Muskan Garg, Amit Gupta
14:15 - 14:30	"Massively Multilingual Language Models for Cross Lingual Fact Extraction from Low Resource Indian Languages" Bhavyajeet Singh, Siri Venkata Pavan Kumar Kandru, Anubhav Sharma, Vasudeva Varma
14:30 - 14:45	"SConE: Contextual Relevance based {S}ignificant {C}ompo{N}ent {E}xtraction from Contracts" Hiranmai Sri Adibhatla, Manish Shrivastava
14:45 - 15:00	"Efficient Joint Learning for Clinical Named Entity Recognition and Relation Extraction Using Fourier Networks: A Use Case in Adverse Drug Events" Anthony Yazdani, Dimitrios Proios, Hossein Rouhizadeh, Douglas Teodoro

Session 7 - NLP Applications - I

ⒶA105

14:00 - 14:15	"Reducing Inference Time of Biomedical NER Tasks using Multi-Task Learning" Mukund Chaudhry, Arman Kazmi, Akhilesh Verma, Vishal Samal, Shashank Jatav, Kristopher Paul, Ashutosh Modi
14:15 - 14:30	"Knowledge Graph-based Thematic Similarity for Indian Legal Judgement Documents using Rhetorical Roles" Sheetal S, Veda N, Ramya Narasimha Prabhu, Pruthvi P, Mamatha H R
14:30 - 14:45	"AniMOJity: Detecting Hate Comments in Indic languages and Analysing Bias against Content Creators" Rahul Khurana, Chaitanya Pandey, Priyanshi Gupta, Preeti Nagrath
14:45 - 15:00	"A Comprehensive Study of Mahabharat using Semantic and Sentiment Analysis" Srijeyarankesh J S, Aishwarya Kumaran, Nithayshri Narasimhan L, Shanmuga Priya M

Session 8 - Language Resources and Evaluation

ⒶA106

14:00 - 14:15	"Named Entity Recognition for Code-Mixed Kannada-English Social Media Data" Poojitha Nandigam, Abhinav Appidi, Manish Shrivastava
14:15 - 14:30	"PACMAN: PArallel CodeMixed dAta generatioN for POS tagging" Arindam Chatterjee, Chhavi Sharma, Ayush Raj, Asif Ekbal
14:30 - 14:45	"Error Corpora for Different Informant Groups: Annotating and Analyzing Texts from L2 Speakers, People with Dyslexia and Children" Þórunn Arnardóttir, Isidora Glisic, Annika Simonsen, Lilja Stefánsdóttir, Anton Ingason
14:45 - 15:00	"Normalization of Spelling Variations in Code-Mixed Data" Krishna Yadav, Md Shad Akhtar, Tanmoy Chakraborty

Session 9 - Dialogue Systems

ⒶA006

15:20 - 15:35	"KILDST: Effective Knowledge-Integrated Learning for Dialogue State Tracking using Gazetteer and Speaker Information" Hyungtak Choi, Hyeonmok Ko, Gurpreet Kaur, Lohith Ravuru, Kiranmayi Gandikota, Manisha Jhawar, Simma Dharani, Pranamya A Patil
15:35 - 15:50	"Efficient Dialog State Tracking Using Gated- Intent based Slot Operation Prediction for On-device Dialog Systems" Pranamya A Patil, Hyungtak Choi, Ranjan Samal, Gurpreet Kaur, Manisha Jhawar, Aniruddha Tammewar, Siddhartha Mukherjee
15:50 - 16:05	"Similarity Based Label Smoothing For Dialogue Generation" Sougata Saha, Souvik Das, Rohini Srihari

Session 10 - Information Extraction/Information Retrieval - II

ⒶA007

15:20 - 15:35	"A Method for Automatically Estimating the Informativeness of Peer Reviews" Prabhat Kumar Bharti, Tirthankar Ghosal, Mayank N Agarwal, Asif Ekbal
15:35 - 15:50	"Compact Residual Learning with Frequency-Based Non-Square Kernels for Small Footprint Keyword Spotting" Muhammad Abulaish
15:50 - 16:05	"IMFinE: An Integrated BERT-CNN-BiGRU Model for Mental Health Detection in Financial Context on Textual Data" Ashraf Kamal, Padmapriya Mohankumar, Vishal K Singh
16:05 - 16:20	"Revisiting Anwesha: Enhancing Personalised and Natural Search in Bangla" Arup Das, Joyojoyti Acharya, Bibekananda Kundu, Sutanu Chakraborti

Session 11 - NLP Applications - II

ⒶA105

15:20 - 15:35	"Emotion-guided Cross-domain Fake News Detection using Adversarial Domain Adaptation" Arjun Choudhry, Inder Khatri, Arkajyoti Chakraborty, Dinesh Kumar Vishwakarma, Mukesh Prasad
15:35 - 15:50	"There is No Big Brother or Small Brother: Knowledge Infusion in Language Models for Link Prediction and Question Answering" Ankush Agarwal, Sakharam Gawade, Sachin Channabasavarajendra, Pushpak Bhattacharya



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Sat, 17th
Dec 2022

Highlights

- For Industry/Startups:
 - Showcase their thrust areas.
 - Meet prospective investors.
 - Connect with prospective candidates.
- Date: December 17th, 2022
- For Participants:
 - Explore research/job opportunities.
 - Align mutual interests.

Venue: IIIT Delhi

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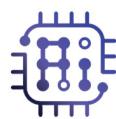
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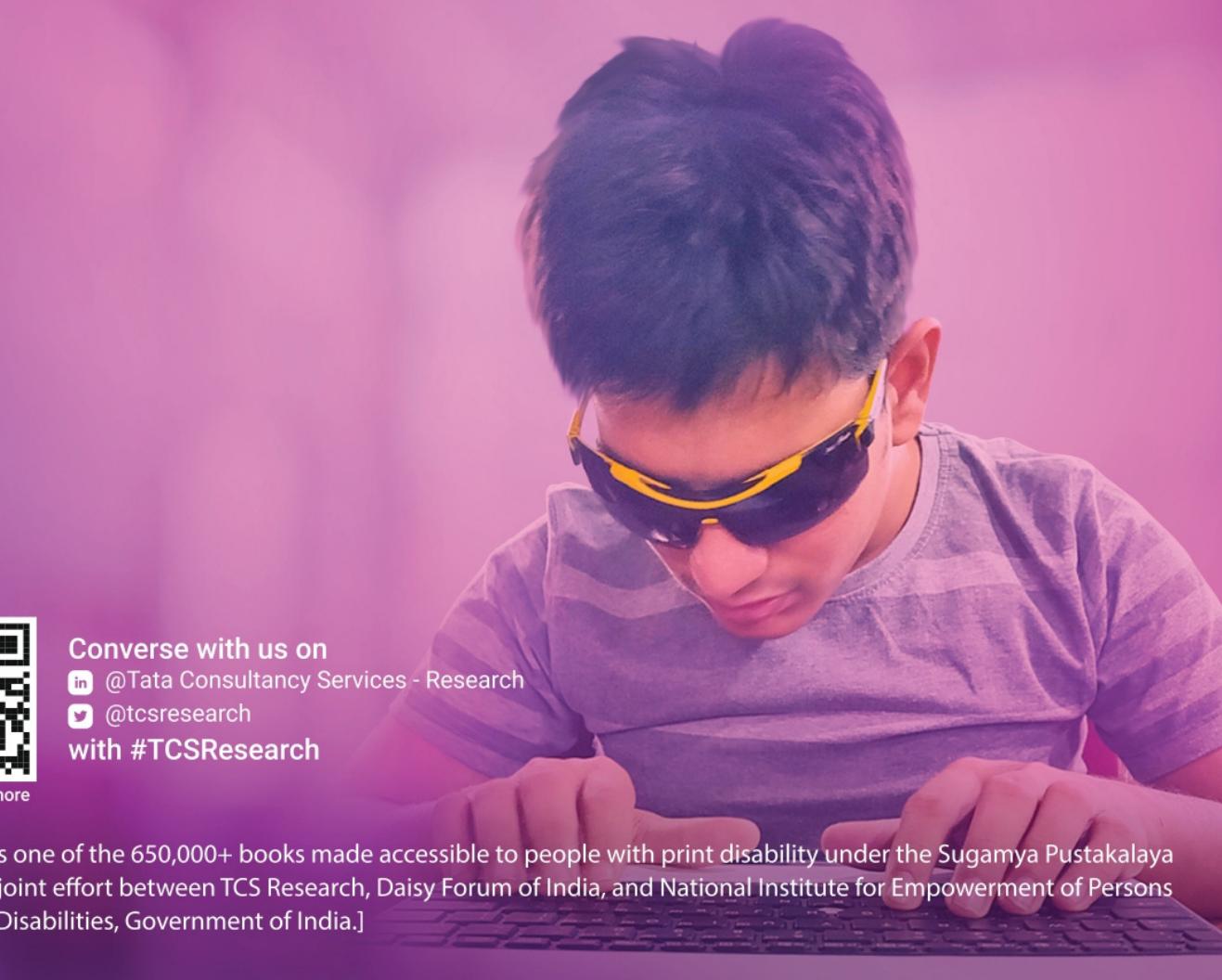


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[A boy reads one of the 650,000+ books made accessible to people with print disability under the Sugamya Pustakalaya program, a joint effort between TCS Research, Daisy Forum of India, and National Institute for Empowerment of Persons with Visual Disabilities, Government of India.]



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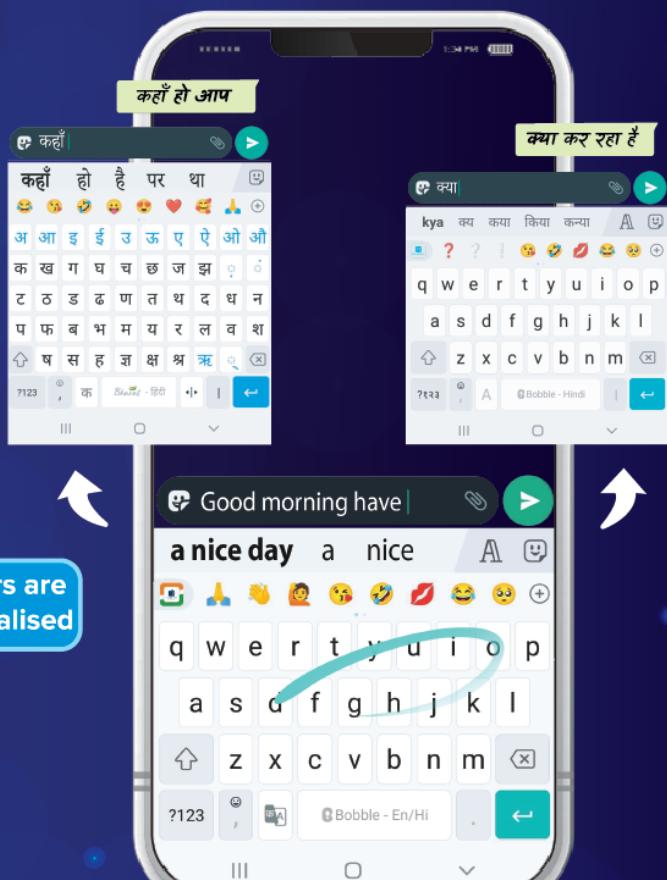
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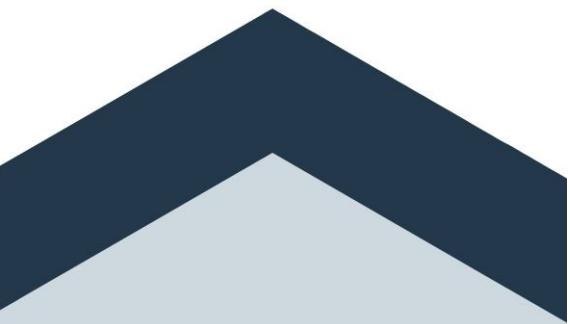
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- Cross caps lab distributed computer & learning laboratory (DCLL)
- Neat AI Servo Lab (Nice Lab)/Knowledgeable Computing and Reasoning Lab (KRaCR)
- Laboratory for Computational Social Systems
- Networked Autonomous Systems (NAS) Lab Vision Labs and
- Code AI/ M Tech CSAI Lab
- Cell Semantics Laboratory (The Sengupta Lab)

EDUCATIONAL PROGRAMS

- Certification Course in AI and Machine Learning
- B.Tech. in Computer Science and Artificial Intelligence
- M.Tech. in Computer Science with Specialization in Artificial Intelligence



RESEARCH AREAS

- Autonomous vehicle
- AI in Healthcare
- AI in Robotics
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- Laboratory for Computational social Systems (LCS2)
- Interactive & Intelligent Systems Lab
- Multimodal Digital Media Analysis (MIDAS) lab
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Main Conference Schedule

16th December 2022

08:00 - 09:00	Registration	(S) Ground Floor
09:00 - 09:30	Inauguration	(S) C-101
09:00 - 10:30	Keynote 1 - Maria Liakata, Queen Mary University of London "Personalised Longitudinal Natural Language Processing"	(S) C-101
10:30 - 11:00	Tea Break	(S) Ground Floor
11:00 - 11:40	Rockstar paper (Alignment-Augmented Consistent Translation for Multilingual Open Information Extraction)	(S) C-101
11:40 - 12:20	Sponsors sessions	(S) C-101
12:30 - 13:30	Lunch Break	(R) First Floor
14:00 - 15:00	Keynote 2 - Pascale Fung, Hong Kong University of Science & Technology "Mitigating Risks while Forging Ahead with AI Progress"	(R) A-005/6/7 (S) Ground Floor
15:00 - 15:20	Tea Break	(R) First Floor
15:20 - 16:20	Technical Session I : Machine Translation and Summarization	(R) A-006
	Technical Session II : Machine Learning in NLP	(R) A-007
	Technical Session III : Sentiment and Question Answering	(R) A-105
	Technical Session IV : Discourse, Parsing and Morphology	(R) A-106
16:30 - 17:30	Annual NLPAI Meet	(R) Meeting Room
18:30 - 21:00	Cultural Program	(S) C-101
	Conference Dinner	(R) First Floor

17th December 2022

09:10 - 10:00	Keynote 3 - Tim Baldwin, University of Melbourne "(Un)fairness in Fairness Evaluation"	(S) C-101
10:00 - 10:40	Rockstar paper (Multi Task Learning for Zero Shot Performance Prediction of Multilingual Models)	(S) C-101
10:40 - 11:00	Tea Break	(S) Ground Floor
11:00 - 12:00	Panel Discussion on "In the era of Transformers, would the classical NLP be at risk?" (Tim Baldwin, Maria Laikata, Lipika Dey, Pushpak Bhattacharyya, Niladri Chatterjee)	(S) C-101
12:00 - 12:20	Sponsors sessions	(S) C-101
12:30 - 13:30	Lunch Break	(R) First Floor
14:00 - 15:00	Technical Session V : Text Generation and Speech	(R) A-006
	Technical Session VI : Information Extraction/ Information Retrieval - 1	(R) A-007
	Technical Session VII : NLP Applications - 1	(R) A-105
	Technical Session VIII : Language Resources and Evaluation	(R) A-106
15:00 - 15:20	Tea Break	(R) First Floor
15:20 - 16:20	Technical Session IX : Dialogue Systems	(R) A-006
	Technical Session X : Information Extraction/ Information Retrieval - 2	(R) A-007
	Technical Session XI : NLP Applications - 2	(R) A105
16:30 - 17:30	Valedictory	(R) A006

(R) : R&D Building (S) : Seminar Block



Organizing Team

LCS2 Lab, IIITD

Organizing Chair



Md Shad Akhtar
Assistant Professor

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PhD Student
Conversational AI



Yash Kumar Atri
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Summarization



Sarah Masud
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Hate speech



Aseem Srivastava
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AI in Mental Health



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