

# Conference Schedule

Sunday, 5<sup>th</sup> January 2020

Location	Khemka Auditorium	Lecture Theatre AC 7	Board Room AC 8
08:00 AM – 09:00AM	Registration @ Khemka Auditorium		
09:00 AM - 09:30 AM	Opening Remarks		
09:30 AM – 10:30AM	<b>KEYNOTE TALK **</b> <b>Speaker: Kristian Kersting</b> Deep Machines That Know When They Do not Know		
10:30 AM - 11:00 AM	Tea/Coffee Break [Venue: Khemka Auditorium]		
11:00 AM - 12:00 PM	<b>Research Track # 1</b> Knowledge Representation and Neural Networks 1	<b>Young Researchers' Symposium # 1</b>	<b>Tutorial # 1</b> Fairness in Algorithmic Decision Making
12:00 PM – 12:30 PM		<b>Demo Spotlights</b>	
12:30 PM - 02:00 PM	Lunch Break [Atrium]		
02:00 PM - 02:30 PM	<b>Research Track # 2</b> Knowledge Representation and Neural Networks 2	<b>Industry Invited Talk</b> Speaker: Tanuja Ganu	<b>Tutorial # 2</b> Causal Inference
02:30 PM – 03:30 PM		<b>Industry Track # 1</b>	
03:30 PM - 04:00 PM	Research Posters @ Tea/Coffee [Venue: Atrium]		
04:00 PM - 05:30 PM	<b>Research Track # 3</b> Machine Learning		<b>Tutorial # 3</b> Software Testing & QA for ML Applications
05:30 PM - 07:00 PM	Demo @ Tea/Coffee [Venue: Atrium]		
07:00 PM - 09:00 PM	<b>Welcome Reception &amp; Networking Dinner</b> [Venue: RC Lawns]		

\*\* Plenary Session @ Khemka Auditorium

# Conference Schedule

Monday, 6<sup>th</sup> January 2020

Location	Khemka Auditorium	Lecture Theatre AC 7	Board Room AC 8
08:30 AM – 09:00 AM	Registration @ Khemka Auditorium		
09:00 AM - 10:00 AM	<b>KEYNOTE TALK **</b> <b>Speaker: Dan Suciu</b> Communication Cost in Parallel Query Evaluation		
10:00 AM – 10:30 AM	Tea/Coffee Break [Venue: Khemka Auditorium]		
10:30 AM - 11:00 AM	<b>Research Track # 4</b> Natural Language Processing	<b>Industry Invited Talk</b> Speaker: Subhabrata Mukherjee	
11:00 AM – 12:00 PM		<b>Industry Track # 2</b>	
12:00 PM - 01:00 PM	Lunch Break [Venue: Atrium]		
01:00 PM - 02:30 PM	<b>Research Track # 5</b> Data Science Adaptations	<b>Young Researchers' Symposium #2</b>	<b>Tutorial # 4</b> Robust Query Processing
02:30 PM - 03:00 PM	Tea/Coffee Break [Venue: Khemka Auditorium]		
03:00 PM - 04:00 PM	<b>KEYNOTE TALK **</b> <b>Speaker: Amit Sheth</b> Knowledge Graphs and their central role in big data processing: Past, Present, and Future		
04:00 PM - 05:00 PM	<b>PANEL DISCUSSION **</b> <b>Topic: Rapid proliferation of AI agents: Is India ready for the growth?</b> <b>Panelists: P.J. Narayanan, Manish Gupta, Ravindran Balaraman</b> <b>Moderator: Sriraam Natarajan</b>		
05:00 PM - 06:00 PM	Travel to Banquet Venue		
06:00 PM - 09:00 PM	<b>Social Evening – Banquet and Cultural Program</b> Venue: Taramati Baradari		

## Workshop: Geospatial Data Science

Venue: Lecture Theater AC 8

08:30 AM – 08:45 AM	Introductory Remarks (Umesh Bellur, Sumit Sen)				
08:45 AM – 09:45 AM	Keynote Lecture - Siva Ravada (Oracle)				
09:45 AM – 10:00 AM	KS Rajan (IIIT Hyderabad)				
10:00 AM – 10:15 AM	Tea/Coffee Break [Venue: Atrium]				
10:15 AM – 11:15 AM	Keynote Lecture - Mohamed Mokbel (QCRI/UMN)				
11:15 AM – 12:30 PM	Uttam Kumar (IIIT Bangalore)  11:15 AM	Vishwanath Gunturi (IIT Ropar)  11:30 AM	Biplab Bhattacharya (CSRE, IITB)  11:45 AM	Binod Bothale (ISRO)  12:00 PM	Pattabhi Rao (INCOIS)  12:15 PM
12:30 PM – 12:45 PM	Concluding Remarks (PS Acharya, SK Ghosh)				

\*\* Plenary Session @ Khemka Auditorium

# Conference Schedule

Tuesday, 7<sup>th</sup> January 2020

Location	Khemka Auditorium	Lecture Theatre AC 7	Board Room AC 8
08:30 AM – 09:00AM	Registration @ Khemka Auditorium		
09:00 AM - 10:00 AM	<b>KEYNOTE TALK **</b> Speaker: Anastasia Ailamaki JIT works: embracing heterogeneity for scalable data analytics		
10:00 AM – 10:30AM	Young Researchers' Posters @ Tea/Coffee [Venue: Atrium]		
10:30 AM - 12:30 PM	Sister Conference Talks **		
12:30 AM - 02:00 PM	Lunch Break [Venue: Atrium]		
02:00 PM - 02:30 PM	Industry Invited Talk Speaker: Geetha Manjunath	Young Researchers' Symposium # 3	
02:30 PM – 03:30 PM	Industry Panel Topic: Data Science from Lab to the Wild  Panelists: Sarabjot Singh, Ramana Polavarapu, Raghuram Lanka, Partha Talukdar  Moderator: Om Deshmukh		
03:30 PM - 04:00 PM	Tea/Coffee Break [Venue: Khemka Auditorium]		
04:00 PM - 05:30 PM	Research Track # 6 Databases and Big Data		Tutorial # 5 Graph-Based Deep Learning in Natural Language Processing
05:30 PM - 06:00 PM	CLOSING REMARKS		

\*\* Plenary Session @ Khemka Auditorium

# Keynote Talks



## Deep Machines That Know When They Do Not Know

Jan 5, 2020 | 09:30 AM

**Prof. Kristian Kersting**  
Computer Science Department  
and Centre for Cognitive Science  
TU Darmstadt

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## Communication Cost in Parallel Query Evaluation

Jan 6, 2020 | 09:00 AM

**Prof. Dan Suciu**  
Computer Science & Engineering  
University of Washington

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## Knowledge Graphs and their central role in big data processing: Past, Present, and Future

Jan 6, 2020 | 03:00 PM

**Prof. Amit Sheth**  
Director, Artificial Intelligence Institute  
University of South Carolina

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## JIT works: embracing heterogeneity for scalable data analytics

Jan 7, 2020 | 09:00 AM

**Prof. Anastasia Ailamaki**  
Data-Intensive Applications and Systems Laboratory  
Ecole Polytechnique Federale de Lausanne (EPFL)

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# Industry Invited Talks



## Learning Systems for Intelligent Energy Networks

Jan 5, 2020 | 02:00 PM | Lecture Theatre AC 7

**Tanuja Ganu**  
Independent Consultant

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## Building Scalable Language Understanding in the Enterprise

Jan 6, 2020 | 10:30 AM | Lecture Theatre AC 7

**Subhabrata Mukherjee**  
Senior Research Scientist  
Microsoft Research AI

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## Can Machine Learning Save Lives?

Jan 7, 2020 | 02:00 PM | Khemka Auditorium

**Geetha Manjunath**  
Co-founder & CEO  
Niramai

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# Sister Conference Talks

Jan 7, 2020 | 10:30 AM | Khemka Auditorium

## Database

**Paper Title:** A Concave Path to Low-overhead Robust Query Processing

**Authors :** Srinivas Karthik, Jayant R. Haritsa, Sreyash Kenkre, and Vinayaka Pandit

**Conference Name :** VLDB 2018

**Paper Link:** <http://www.vldb.org/pvldb/vol11/p2183-venkatesh.pdf>

**Presenter:** Shivani Tripathi, PhD Student, IISc Bangalore (<https://dsl.cds.iisc.ac.in/~shivani/>)

## ML

**Paper Title:** On Controllable Sparse Alternatives to Softmax

**Authors :** Anirban Laha, Saneem Ahmed Chemmengath, Priyanka Agrawal, Mitesh M. Khapra, Karthik Sankaranarayanan, Harish Ramaswamy

**Conference Name:** NIPS 2018

**Paper Link:** <https://papers.nips.cc/paper/7878-on-controllable-sparse-alternatives-to-softmax.pdf>

**Presenter :** Saneem Ahmed Chemmegath, Software Engineer, IBM Research Bangalore (<https://github.com/saneem89>)

**Paper Title:** Zero-shot Task Transfer

**Authors:** Arghya Pal, V. Balasubramanian

**Conference Name:** CVPR 2019

**Paper Link:** [http://openaccess.thecvf.com/content\\_CVPR\\_2019/papers/Pal\\_Zero-Shot\\_Task\\_Transfer\\_CVPR\\_2019\\_paper.pdf](http://openaccess.thecvf.com/content_CVPR_2019/papers/Pal_Zero-Shot_Task_Transfer_CVPR_2019_paper.pdf)

**Presenter:** Dr. Vineeth Balasubramanian, Associate Professor, IIT Hyderabad (<https://www.iith.ac.in/~vineethnb/>)

## AI Applications

**Paper Title:** VidyutVanika: A Reinforcement Learning Based Broker Agent for a Power Trading Competition: Design and Performance

**Authors:** Susobhan Ghosh, Easwar Subramanian, Sanjay P. Bhat, Sujit P. Gujar, Praveen Paruchuri

**Conference Name:** AAAI 2019, This work also won 2nd prize in PowerTac 2018 (Team VidyutVanika)

**Paper Link:** <https://aaai.org/ojs/index.php/AAAI/article/view/3880>

**Presenter :** Dr. Sujit Gujar, Assistant Professor, IIIT Hyderabad (<https://sites.google.com/site/sujitgujar/>)

**Paper Title:** Deep Reinforcement Learning for Syntactic Error Repair in Student Programs

**Authors:** Rahul Gupta, Aditya Kanade, Shirish Shevade

**Conference Name:** AAAI 2019

**Paper Link:** <https://aaai.org/ojs/index.php/AAAI/article/view/3882>

**Presenter:** Prof. Shirish Shevade, CSA, IISc Bangalore (<https://www.csa.iisc.ac.in/~shirish/>)

## NLP

**Paper Title:** Zero-shot Word Sense Disambiguation using Sense Definition Embeddings

**Authors:** Sawan Kumar, Sharmistha Jat, Karan Saxena and Partha Talukdar

**Conference Name:** ACL 2019 (Outstanding paper award winner)

**Paper Link:** [http://malllabiisc.github.io/publications/papers/EWISE\\_ACL19.pdf](http://malllabiisc.github.io/publications/papers/EWISE_ACL19.pdf)

**Presenter:** Sawan Kumar, PhD Student, IISc Bangalore (<https://sawankumar28.github.io>)

# Tutorials

## Fairness in Algorithmic Decision Making

Jan 5, 2020 | 11:00 AM | Board Room AC 8



**Abhijnan Chakraborty**  
Max Planck Institute for Software  
Systems (MPI-SWS)

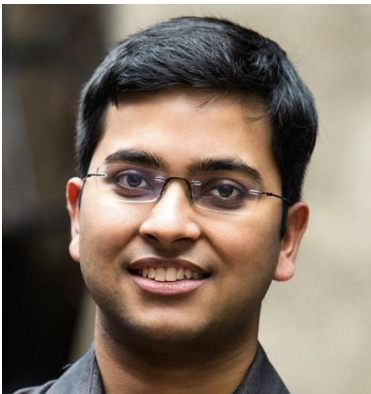


**Krishna P. Gummadi**  
Max Planck Institute for Software  
Systems (MPI-SWS)

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## Causal Inference and Counterfactual Reasoning

Jan 5, 2020 | 02:00 PM | Board Room AC 8



**Amit Sharma**  
Microsoft Research India



**Emre Kiciman**  
Microsoft Research AI

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## Software Testing & QA for ML Applications

Jan 5, 2020 | 04:00 PM | Board Room AC 8



**Sandya Mannarswamy**  
Independent Researcher



**Shourya Roy**  
American Express AI Labs



**Saravanan Chidambaram**  
Independent Researcher &  
Consultant

# Robust Query Processing: Mission Possible

Jan 6, 2020 | 01:00 PM | Board Room AC 8



**Jayant Haritsa**

Indian Institute of Science (IISc)

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# Graph-based Deep Learning in Natural Language Processing

Jan 7, 2020 | 04:00 PM | Board Room AC 8



**Shikhar Vashishth**

Indian Institute of Science (IISc)



**Naganand Y**

Indian Institute of Science (IISc)



**Partha Talukdar**

Indian Institute of Science (IISc)

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# Technical Program (Research Track)

## Research Track # 1: Knowledge Representation and Neural Networks 1 Sunday, January 5, 2020, 11:00am - 12:30pm

Session Code	Authors	Title
RT1-01	Anant Khandelwal, Niraj Kumar	A Unified System for Aggression Identification in English Code-Mixed and Uni-Lingual Texts
RT1-02	Radhakrishnan Maivizhi, Palanichamy Yogesh	Concealed Multidimensional Data Aggregation in Big Data Wireless Sensor Networks
RT1-03	Abhishek Goyal, Rahul Garg	Effective EEG Connectivity by Sparse Vector Autoregressive Model
RT1-04	Shashi Kumar, Suman Roy, Vishal Pathak	A Hybrid Distributed Model for Learning Representation of Short Texts with Attribute Labels
RT1-05	Koninika Pal, Vinh Thinh Ho, Gerhard Weikum	Co-Clustering Triples from Open Information Extraction
RT1-06	Saransh Khandelwal, Dhananjay Kumar	Computational Fact Validation from Knowledge Graph using Structured and Unstructured Information

## Research Track # 2: Knowledge Representation and Neural Networks 2 Sunday, January 5, 2020, 2:00pm - 3:30pm

Session Code	Authors	Title
RT2-01	Dinesh Jain, Srinivas Anumasa and P.K. Srijith	Decision Making under Uncertainty with Convolutional Deep Gaussian Processes
RT2-02	Aditya Jayasimha, Tushaar Gangavarapu, Sowmya Kamath S, Gokul S Krishnan	Deep Neural Learning for Automated Diagnostic Code Group Prediction using Unstructured Nursing Notes
RT2-03	Shresth Verma, Haritha S Nair, Gaurav Agarwal, Joydip Dhar, Anupam Shukla	Deep Reinforcement Learning for Single-Shot Diagnosis and Adaptation in Damaged Robots
RT2-04	Sumanto Dutta, Anup Nandy	An Extensive Analysis on Deep Neural Architecture for Classification of Subject-Independent Cognitive States
RT2-05	Akshay Parekh, Ashish Anand, Amit Awekar	Taxonomical Hierarchy of Canonicalized Relations from Multiple Knowledge Bases
RT2-06	Nikit Begwani, Shrutendra Harsola and Rahul Agrawal	Learning From Weights: Cost-Sensitive Approach For Retrieval

## Research Posters: Sunday, January 5, 2020, 3:30pm - 4:00pm

Posters of all accepted papers in Research Track will be presented here

## Research Track # 3: Machine Learning Sunday, January 5, 2020, 04:00pm - 05:30pm

Session Code	Authors	Title
RT3-01	Arindam Bhattacharya, Srikanta Bedathur, Amitabha Bagchi	Adaptive Learned Bloom Filters under Incremental Workloads
RT3-02	Jyoti Narwariya, Pankaj Malhotra, Lovekesh Vig, Gautam Shroff, Vishnu T V	Meta-Learning for Few-Shot Time Series Classification
RT3-03	Monika Bansal, Dolly Sharma	Ranking and Discovering Anomalous Neighborhoods in Attributed Multiplex Networks
RT3-04	Himanshu Kumar, Naresh Manwani, P S Sastry	Robust Learning of Multi-Label Classifiers under Label Noise
RT3-05	Dev Yashpal Sheth, Arun Rajkumar	Active Ranking from Pairwise Comparisons with Dynamically Arriving Items and Voters
RT3-06	Hemavati, V Susheela Devi, Seba Ann Kuruvilla, R Aparna	Prototype Selection and Dimensionality Reduction on Multi-Label Data

**Research Track # 4: Natural Language Processing**  
**Monday, January 6, 2020, 10:30am - 12:00pm**

Session Code	Authors	Title
RT4-01	Vyshnavi Gutta, Narendra Babu Unnam, Krishna Reddy P	An Improved Human-in-the-loop Model for Fine-grained Object Recognition with Batch-based Question Answering
RT4-02	Binny Mathew, Suman Kalyan Maity, Pawan Goyal, Animesh Mukherjee	Competing Topic Naming Conventions in Quora: Predicting Appropriate Topic Merges and Winning Topics from Millions of Topic Pairs
RT4-03	Binny Mathew, Navish Kumar, Pawan Goyal, Animesh Mukherje	Interaction Dynamics between Hate and Counter Users on Twitter
RT4-04	Vijay Gaikwad, Yashodhara Haribhakta	Adaptive GloVe and FastText Model for Hindi Word Embeddings
RT4-05	Priyanka Ravva, Manish Shrivastava, Ashok Urlana	AVADHAN: System for Open-Domain Telugu Question Answering
RT4-06	Pratik Kayal, Mayank Singh, Pawan Goyal	Weakly-Supervised Deep Learning for Domain Invariant Sentiment Classification

**Research Track # 5: Data Science Adaptations**  
**Monday, January 6, 2020, 01:00pm - 02:30pm**

Session Code	Authors	Title
RT5-01	Saurabh Ravindranath, Rahul Baburaj, Vineeth Balasubramanian, Nageswararao Namburu, Sujit Gujar, Jawahar C V	Human Machine Collaboration for Face Recognition
RT5-02	Natwar Modani, Manoj Kilaru, Anjan Kaur, Harsh Khetan	Predicting Outcomes in Limited-Overs Cricket Matches
RT5-03	Chahat Bansal, Arpit Jain, Phaneesh Barwaria, Anuj Choudhary, Anupam Singh, Ayush Gupta, Aaditeshwar Seth	Temporal Prediction of Socio-economic Indicators using Satellite Imagery
RT5-04	Abhirut Gupta, Sandipan Sikdar, Prateeti Mohapatra, Niloy Ganguly	Topic Influence Graph Based Analysis of Seminal Papers
RT5-05	Saswata Roy, Brijendra Suman, Joydeep Chandra, Sourav Dandapat	Forecasting the Future: Leveraging RNN based Feature Concatenation for Tweet Outbreak Prediction
RT5-06	Davinder Singh, Naman Jain, Pranjali Jain, Pratik Kayal, Sudhakar Kumawat, Nipun Batra	PlantDoc: A Dataset for Visual Plant Disease Detection

**Research Track # 6: Databases and Big Data**  
**Tuesday, January 7, 2020, 04:00pm - 05:30pm**

Session Code	Authors	Title
RT6-01	Sapan Tanted, Anshul Agarwal, Shinjan Mitra, Chaitra Bahuman, Krithi Ramamritham	Database and Caching Support for Adaptive Visualization of Large Sensor Data
RT6-02	Lily Srujana Chamakura, Goutam Saha	Feature Selection for High-dimensional Data through Instance Vote Combining
RT6-03	Shanmugasundaram Vengadeswaran, Sadhu Ramakrishnan Balasundaram	CLUST: Grouping Aware Data Placement for Improving the Performance of Large-Scale Data Management System
RT6-04	Akhil Ralla, Shadaab Siddiqie, P Krishna Reddy, Anirban Mondal	Coverage Pattern Mining Based on MapReduce
RT6-05	KV Arya, Shresth Verma, Raj Kuwar Gupta, Soumya Agarwal, Prince Gupta	IIITM Face: A Database for Facial Attribute Detection in Constrained and Simulated Unconstrained Environments
RT6-06	Bithika Pal, Mamata Jenamani	Personalized Ranking in Collaborative Filtering: Exploiting I-th Order Transitive Relations of Social Ties

<b>Sister Conference Talks</b> <b>Tuesday, January 7, 2020, 10:30am - 12:30pm</b>		
<b>Session Code</b>	<b>Presenter</b>	<b>Title</b>
RT-INV-01	Shivani Tripathi	A Concave Path to Low-overhead Robust Query Processing
RT-INV-02	Saneem Ahmed Chemmegath	On Controllable Sparse Alternatives to Softmax
RT-INV-03	Vineeth Balasubramanian	Zero-shot Task Transfer
RT-INV-04	Sujit Gujar	VidyutVanika: A Reinforcement Learning Based Broker Agent for a Power Trading Competition: Design and Performance
RT-INV-05	Shirish Shevade	Deep Reinforcement Learning for Syntactic Error Repair in Student Programs
RT-INV-06	Sawan Kumar	Zero-shot Word Sense Disambiguation using Sense Definition Embeddings

## Technical Program (Industry Track)

<b>Industry Invited Talk: Learning systems for intelligent energy networks</b> <b>Speaker: Tanuja Ganu</b> <b>Sunday, January 5, 2020, 2:00pm - 2:30pm</b>
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<b>Industry Track # 1: Sunday, January 5, 2020, 2:30pm - 3:30pm</b>		
<b>Session Code</b>	<b>Authors</b>	<b>Title</b>
IT1-01	Nausheen Fatma, Niharika Sachdeva, Nitendra Rajput	Canonicalizing Organization Names for Recruitment Domain
IT1-02	Salil Rajeev Joshi, Bharath Venkatesh, Dawn Thomas, Yue Jiao, Shourya Roy	A Natural Language and Interactive End-to-End Querying and Reporting System
IT1-03	Rahul Kumar Dubey, Anmol Nayak, Vaibhav Kesri	Knowledge Graph based Automated Generation of Test Cases in Software Engineering

<b>Industry Invited Talk: Building Scalable Language Understanding in the Enterprise</b> <b>Speaker: Subhabrata Mukherjee</b> <b>Monday, January 6, 2020, 10:30am - 11:00am</b>
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<b>Industry Track # 2: Monday, January 6, 2020, 11:00am - 12:00pm</b>		
<b>Session Code</b>	<b>Authors</b>	<b>Title</b>
IT2-01	Mayank Singh, Arindam Pal, Lipika Dey, Animesh Mukherjee	Innovation and Revenue: Deep Diving into the Temporal Rank-Shifts of Fortune 500 Companies
IT2-02	Sumit Kumar, Gopi Ramena, Manoj Goyal, Debi Mohanty, Ankur Agarwal, Benu Changmai, Sukumar Moharana	On-Device Information Extraction from Screenshots in Form of Tags
IT2-03	Pranay Lohia, Kalapriya Kannan, Karan Rai, Srikanta Bedathur	Ranking Marginal Influencers in a Target-labeled Network
IT2-03	Chinmay Savadikar, Shahram Tahvilian, Lara Baden, Rebecca Reed, Daniel Leventon, Paul Pagano, Bhushan Garware	Towards Designing Accurate FISH Probe Detection using 3D U-Nets on Microscopic Blood Cell Images

**Industry Invited Talk: Can Machine learning Save Lives?**

**Speaker: Geetha Manjunath**

**Tuesday, January 7, 2020, 2:00pm - 2:30pm**

**Industry Panel: Data Science from Lab to the Wild**

**Panelists: Sarabjot Singh, Ramana Polavarapu, Raghuram Lanka, Partha Talukdar**

**Moderator: Om Deshmukh**

**Tuesday, January 7, 2020, 2:30pm - 3:30pm**

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## Technical Program (Demo Track)

**Demo Paper Spotlights: Sunday, January 5, 2020, 12:00pm - 12:30pm**

Session Code	Authors	Title
DT-01	Abhishek Bagade, Ashwini Pale, Shreyans Sheth, Megha Agarwal, Kameswari Chebrolu, Soumen Chakrabarti and S. Sudarshan	The Kauwa Kaate Fake News Detection System: Demo
DT-02	Suryatej Reddy Vyalla and Vishaal Udandarao	Memeify: A Large-Scale Meme Generation System
DT-03	Rasna Goyal, Abhijeet Awasthi, Gaurav Jindal and Sunita Sarawagi	Generalized Labeling for Efficient Human Supervision
DT-04	Sudarsun Santhiappan, Ram Swaminathan, Harinath Krishnamoorthy, Praveen Kumar Suresh, Mohammed Sharafath and Sriram Rajkumar	SMTAnalytics.AI: A Predictive and Preventive Intelligence Platform for SMT Manufacturing
DT-05	Ayushi Gupta, Somu Prajapati, Shubham Kumar Nigam and Swaprava Nath	SwaGrader: Honest Effort Extracting, Modular Peer-Grading Tool
DT-06	Rupsa Saha, Abir Naskar, Tirthankar Dasgupta and Lipika Dey	A System for Analysis, Visualization and Retrieval of Crime Documents

**Poster/Demonstration: Sunday, January 5, 2020, 05:00pm onwards**

# Technical Program (Young Researchers' Symposium)

Session YRS # 1: Machine Learning and Benchmarking Sunday, January 5, 2020, 11:00am - 12:10pm		
Session Code	Authors	Title
AI in Finance: Problems and Prospects Vijay Saraswat, Goldman Sachs		
YRS1-01	Atishay Jain, Ritik Dutta, Varun Gohil	Effect of Feature Hashing on Fair Classification
YRS1-02	Siddhant Katyan, Shrutimoy Das	Solving Eigenvalue Problem as an Optimization Problem on Manifold
YRS1-03	Moksh Jain, Sowmya Kamath S	Improving Convergence in IRGAN with PPO
YRS1-04	Kakuli Mishra, Srinka Basu, Ujjwal Maulik	A Segmentation based Similarity Measure for Time Series Data
YRS1-05	Vinu Ellampallil Venugopal, Martin Theobald	Benchmarking Synchronous and Asynchronous Stream Processing Systems
YRS1-06	Gunjan Singh, Sumit Bhatia, Raghava Mutharaju	A Benchmark for OWL 2 DL Reasoners

Session YRS # 2: Applications Monday, January 6, 2020, 01:00pm - 02:30pm		
Session Code	Authors	Title
YRS2-01	Rithwik Kukunuri, Nipun Batra, Hongning Wang	Lessons and Insights from Super-Resolution of Energy Data
YRS2-02	Souvik Roy, Nipun Batra, Pawan Gupta	Estimation of PM2.5 using Satellite and Meteorological Data
YRS2-03	Chahat Bansal	Describing Patterns of Socio-Economic Development at Fine Spatial and Temporal Resolutions
YRS2-04	Karan Kumar, Nipun Batra	Solar Energy Forecasting using Machine Learning
YRS2-05	S Deepak Narayanan, Apoorv Agnihotri, Nipun Batra	Active Learning for Air Quality Station Location Recommendation
YRS2-06	Sayani Mondal, Partha Pratim Das	Estimation of Software Productivity from Code Reading Pattern
YRS2-07	Garima Shakya	Protecting Elections
YRS2-08	Ishani Mondal	Approaches to Biomedical Coreference Resolution
YRS2-09	Monika Jain, Paramita Mirza, Raghava Mutharaju	Cardinality Extraction from Text for Ontology Learning

**Session YRS3: Natural Language Processing  
Tuesday, January 7, 2020, 02:00pm - 03:30pm**

Session Code	Authors	Title
YRS3-01	Anshuman Yadav, Aditya Garg, Anup Aglawe, Ayush Agarwal, Vivek Srivastava	Understanding the Political Inclination of WhatsApp Chats
YRS3-02	Monisha Jegadeesan	Adversarial Demotion of Bias in Natural Language Generation
YRS3-03	Utsav Jethva, Dhairat Kabaria, Mohit Mina, Ribhu Vajpeyi, Vivek Srivastava	Stance Detection in Hindi-English Code-Mixed Data
YRS3-04	Akhilesh Ravi, Amit Yadav, Jainish Chauhan, Jatin Dholakia, Naman Jain	SentEmoji: A Dataset to Generate Empathising Conversations
YRS3-05	Jyotsana Khatri, Rudra Murthy, Pushpak Bhattacharyya	A Study of Efficacy of Cross-lingual Word Embeddings for Indian Languages
YRS3-06	Nidhin Harilal, Rushil Shah, Saumitra Sharma, Vedanta Bhutani	CARO: An Empathetic Health Conversational Chatbot for People with Major Depression
YRS3-07	Yashasvi Mantha, Diptesh Kanojia, Abhijeet Dubey, Pushpak Bhattacharyya, Malhar Kulkarni	Harnessing Deep Cross-lingual Word Embeddings to Infer Accurate Phylogenetic Trees
YRS3-08	Urmi Saha, Abhijeet Dubey, Aditya Joshi, Pushpak Bhattacharyya	Enhancing Neural Sentiment Analysis with Aspect Weights
YRS3-09	Diptesh Kanojia, Sai Sravan Munukutla, Sayali Ghodekar, Pushpak Bhattacharyya, Malhar Kulkarni	Keep Your Dimensions on a Leash: True Cognate Detection using Siamese Deep Neural Network

**YRS Posters: Tuesday, January 7, 2020, 10:00pm - 10:30am**

Posters of all YRS accepted papers will be presented here

# Social Events

## Welcome Reception & Networking Dinner

Jan 5, 2020 | RC Lawns, ISB | 7 PM onwards

## Social Evening - Banquet & Cultural Program

Jan 6, 2020 | Taramati Baradari | 6 PM onwards

Sponsored by Rakuten

### About Taramati Baradari

Located at Ibrahimbagh on Gandipet Road and just outside the Golconda Fort, Taramati Baradari is one of the popular monuments of Hyderabad. Taramati Baradari is consisted of a music hall with 12 entrances. It was used as an auditorium. Taramati has been situated on the top of the hill, which was done so as to avoid any disturbance to the sound from the population of the surrounding area. Its hall is spacious. This huge structure is in the shape of semi-arch; it opens into an art gallery.

(Reference: <https://www.hyderabadtourism.travel/taramati-baradari-hyderabad>)

### Cultural Program

**The pearl string - from the casket of Hyderabad:** Hyderabad is referred to as the Pearl City. The sensitivity of selecting the best of the pearls is the artful preserve of the city. This sensitivity springs out of their artful life, especially it's multifarious music. Be it Carnatic music or Hindustani, be it a bhajan or a ghazal, Hyderabad has a say on the sound Scape. The presentation reflects this plurality of music as sung, heard, played and echoed in the memory of Hyderabad.

T.K. Sisters (Dr.Saroja and Dr. Sujatha) along with their team will make your evening pleasant and memorable

- Dr. Srikanth on the Mridangam
- Uday Kumar on the Tabla
- R. Dinakar on the Violin
- S. Jayachandran , the compere would be presenting this musical garland of pearls.

