



INTERNATIONAL INSTITUTE OF  
INFORMATION TECHNOLOGY

HYDERABAD

R & D Showcase 2017  
18<sup>th</sup> - 19<sup>th</sup> February, 2017

List of Posters/Demos/Models

Research Center Activity Posters - Room Numbers 101 and 102

Industry Oriented Projects Posters - Kohli Research Block  
Exhibition Hall

Other Posters/Demos - Room Numbers 103-104, 201-204, 301-304

Number of Posters/Demos/Models: Total - 337

## Data Sciences and Analytics Center (DSAC)

### Ground Floor - Room Number 103

1. Patient-based Cohort Identification - Mihir Shekhar, Raghavendra Chikka
2. Failure Resilience and Energy Minimization in a Multi-Wheel Payload Transport Robot - Rahul Tallamraju, Venkatesh Sripada, Kaushik Palla
3. Multi-Robot Payload Transport System - Pulkit Verma, Rahul Tallamraju
4. Extracting Evidence from Detective Novels - Aditya Motwani, Aayush Naik
5. Semi-supervised Automatic Generation of Wikipedia articles for Named Entities - P Yashaswi, Navya Yarrabelly
6. Notability Determination for Wikipedia - P Yashaswi
7. Multiple Agents playing a game of hide and seek - Akshat Tandon
8. Natural Language generation and Question Answering from Graph Annotations - Anurag Gupta, Karan Mangla, Shraddhan Jain
9. Nearest Neighbor Driven High Dimensional Data Visualization using Eigen Subspace - Ayushi Gupta
10. Base 0 workflow management system - Aman Varshney, Syed Juned Ali
11. Regress2Represent: Scalable Automated Feature Learning - Saket Maheshwary
12. WikiSeq: Mining Maximally Informative Simple Sequences from Wikipedia - Gautam Nair
13. Paper2Vec: Combining text and graph information in academic citation network - Soumyajit Ganguly
14. Relaxed Neighbor Based Graph Transformations for Effective Preprocessing: A Function Prediction Case Study - D Satheesh kumar
15. Improved approach for protein function prediction by exploiting prominent proteins - D Satheesh kumar
16. Discovering Periodic-Frequent Patterns in Transactional Databases Using All-Confidence and Periodic-All-Confidence - Venkatesh J N
17. Discovering Partial Periodic-Frequent Patterns in a Transactional Database - Venkatesh J N
18. Discovering Periodic Patterns in Non-Uniform Temporal Databases - Venkatesh J N
19. Memory efficient mining of periodic frequent patterns in transactional data - Anirudh Alampally
20. Parallel Algorithm for mining periodic frequent patterns - Anirudh Alampally
21. A Frame work to Improve reuse in weather based decision support systems - Mamatha
22. Analyzing Similarity Among Coupled Weather Conditions to Improve Reuse in Weather-based Decision Support Systems - Mamatha
23. Concept of Diverse Frequent Patterns / Concept Hierarchy based Diverse Frequent Patterns - Kumara Swamy
24. Improving Diversity Performance of Association Rule Based Recommender Systems - Kumara Swamy
25. Association Rule based Approach to Improve Diversity of Search Query Recommendations - Kumara Swamy

## **Data Sciences and Analytics Center (DSAC) (Contd...)**

### **Ground Floor - Room Number 103**

26. Text and Citations Based Cluster Analysis of Legal Judgments - Raghav
27. Analyzing the Extraction of Relevant Legal Judgments using Paragraph-level and Citation Information. - Raghav
28. A Model of Coverage Patterns - Amar Budhiraja
29. Improving Adwords with Coverage Patterns - Amar Budhiraja
30. An Improved Search Engine Advertising Framework to Exploit ad space of long tail queries - Amar Budhiraja
31. An approach to allocate adslots for display advertising - Kavya
32. An approach to extract content specific coverage patterns - Kavya
33. Improving performance of Collaborative Filtering with Category Specific Neighborhood - Dileep Kumar K
34. Event Summarization using Tweets: A case study of Cricket - G. Pooja Shamili and M. Akhila

## **IT for Agriculture Research Center**

### **Ground Floor - Room Number 103**

1. Village level eSagu
2. eSagu Sample advisories English
3. eSagu Sample advisories Telugu
4. eSagu-BEL-CSR Project Summary
5. eSagu-HAL-CSR Project Summary
6. eAgromet: ICT-enabled Integrated Agro-Meteorological Advisory System
7. The Architecture of eAgromet
8. Virtual crop labs
9. eAgrisarathi: An IT driven personalized Agri-facilitator for better farming
10. eAgrisarathi: Brochure

## **Center for Visual Information Technology (CVIT)**

### **First Floor - Room Number 201**

1. Sport Video Analytics - Anurag Ghosh, Suranjana Trivedy, Rahul Anand Sharma, Mohak Sukhwani, Vishal Tiwary, Bharat Bhat, Dr. Vineet Gandhi, Dr. C. V. Jawahar
2. A Retinal Vessel Keypoint Detector for Junction Classification - Chetan Srinidhi, Priyadarshi Rath, Dr. Jayanthi Sivaswamy,
3. INDIAN DIGITAL HERITAGE - Suhas Darsi, Vamsidhar Muthireddy, Chaitanya Nagpal, Sahil Chelaramani, Dr. C. V. Jawahar
4. Indian Language OCR - Jobin KV, Minesh Mathew, Vinitha VS, Deepayan Das, Dr. C. V. Jawahar
5. First Person Vision - Bharat Bhatnagar, Bhaktipriya Shridhar, Anuj Rathore, Surya Singh, Dr. C. V. Jawahar, Dr. Chetan Arora
6. Faces and People in Images and Videos - Vijay Kumar, Anand Misra, Ashutosh Misra, Shyam Nandan Rai, Samyak Datta, Ashwin Sudhir, Harshil Jain, Dr. A. Namboodiri, Dr. C. V. Jawahar
7. Retinal Image Analysis - Jahanvi Gamalapati, Appan K Pujitha, Dr. Jayanthi Sivaswamy
8. AMBIENT LIGHTSCAPES – An Immersive Movie Experience - Dr. P. J. Narayan, Revanth N R
9. Document Blur Detection using Edge Profile Mining - Sajal Maheshwari, Pranjal Kumar Rai, Gopal Sharma, Dr. Vineet Gandhi
10. Zooming On All Actors: Automatic Focus+Content Split Screen Video Generation - Moneish Kumar, Dr. Vineet Gandhi
11. Handwritten Image Analysis - Praveen Krishnan, Kartik Dutta, Vijay Rowtula, Anshuman Majumdar, Dr. C. V. Jawahar
12. Combining multi scale graph kernels for learning relationship between structural and functional connectivity - Srinivas Govinda S, Dr. Avinash Sharma
13. MKL based Local Label Diffusion for Automatic Image Annotation - Abhijeet Kumar, Anjali Shenoy, Dr. Avinash Sharma
14. Construction of Indian Young Adult Brain Atlas - Alphin J Thottupattu, Raghav Mehta, Dr. Jayanthi Sivaswamy
15. Scene Text Recognition - Dr. Anand Mishra, Minesh Mathew, Jerin Phillip, Mohit Jain, Dr. Girish Varma, Dr. C. V. Jawahar

## **Robotics Research Center (RRC)**

### **Ground Floor - Room Number 104**

1. Obstacle Detection, Disparity Generation with E2O-electric vehicle (Demo+Video+Poster) - Bhargav
2. Obstacle Avoidance on Bebop (Demo + Video + Poster) - Utsav
3. DCMR (Demo + Video + Poster) - Harsha
4. Pipe Climber (Video + Poster) -: Harsha
5. Drones for Tree Detection, Localization (Video + Poster) - Utsav
6. Multi Robot Trajectory Merging, SLAM and Reconstruction (Video + Poster) - Junaid
7. Reconstructing Vehicles with Monocular Camera (Video + Poster) - KM
8. Road Curb Detection (Video + Poster) - Dhaivat
9. Visual Servoing with Drones and In General (Video + Poster) - Harit
10. Semantic Motion Seg (Video + Poster) - Nazrul
11. Inverse RL based PTAM exploration (Video + Poster) - Vignesh
12. Obstacle avoiding using VSLAM on Husky (Video + Poster) - Abhishek Raj Dutta

**Language Technologies Research Center (LTRC): Natural Language  
Processing (NLP)/Machine Translation (MT)**  
**First Floor - Room Number 204**

1. Question Answering and Summarization of Stories - Hemanth Kancharla, Radhika Mamidi
2. Sentiment Polarity Extraction from Bollywood Song Lyrics and Movie Reviews - Drushti Apoorva G, Ayush Tripathi
3. Arithmetic Word Problem Solving - Pruthwik Mishra, Dr Dipti Misra Sharma
4. Dependency Parsing of Hindi, Urdu and Code-Mixed Hindi-English - Irshad Ahmad Bhat & Riyaz Ahmad Bhat
5. Vaidya: A Spoken Dialog System for Health Domain - Prathyusha Danda, Brij Mohan Lal Srivastava, Manish Shrivastava
6. Transition-Based Natural Language Generation from Deep Input Graphs - Ratish Puduppully, Yue Zhang and Manish Shrivastava
7. Towards building a SentiWordNet for Tamil - Abhishek Kannan, Gaurav Mohanty, Ayush Tripathi
8. Semantic Textual Similarity For Hindi - Darshan Agarwal, Vanan Mujadia, Prof. Dipti M Sharma, Dr. Radhika Mamidi
9. Hybrid Machine Translation System - Saumitra Yadav, Vandan Mujadia, Dr. Manish Shrivastava
10. Natural Language Interface to Databases - Prathyusha Jwalapuram, Pravallika Etoori, Ashish Palakurthi, Radhika Mamidi
11. Dialog Act Recognition For Code-Mixed Conversations - Jitta Divya Sai, Radhika Mamidi
12. Automatic Identification of Sexist Tweets - Akshita Jha, Radhika Mamidi
13. Coreference Resolution for Hindi - Vandan Mujadia, Dipti M. Sharma
14. Siamese LSTM with 2D CNN for Similar Question Retrieval in cQA - Avinash Kamineni, Harish Yenala

**LTRC: Anusaraka Lab**  
**First Floor - Room Number 204**

1. Overcoming Language Barrier - Kishori Pawar
2. Communicate - Shastri Mohapatra, Harshavardhan, Megha Jain

## **LTRC: Information Retrieval and Extraction Lab (IREL)**

**First Floor - Room Number 204**

### **Demos**

1. Multi document summarizer - Litton Jose
2. Hate Speech Detection for Tweets - Shashank Gupta, Pinkesh Badjatiya
3. Cross lingual information access - Persona Classification in Medical Blogs - Shashank Gupta, Nikhil Priyatam
4. News recommendation - Vaibhav Kumar, Dhruv Khattar
5. Cross-lingual news access - Nisarg Jhaveri
6. Summarization - Abhishek Singh

### **Posters**

7. Recommendation using distributed Representations of text and Graph - Shashank Gupta
8. Consumer Health Information System - Raksha Jalan
9. Interpreting the Syntactic and Social Elements of the Tweet Representations via Elementary Property Prediction Tasks - Raghuram Vadapalli -
10. Cloud computing - Kumar Rishabh
11. Weakly supervised approach for joint retrieval of topical tweets and sentiment analysis - Satrupa Guha

## **LTRC: Speech Processing Laboratory (SPL)**

**First Floor - Room Number 204**

1. Speech Polarity Detection using Strength of Impulse-like Excitation Extracted from Speech Epochs - Sudarsana Reddy Kadiri and B. Yegnanarayana
2. Extraction of Excitation Information from Speech and its Applications for Expressive Speech Processing - Sudarsana Reddy Kadiri and B. Yegnanarayana
3. Starting Small Learning Strategies for Speech Recognition - Hari krishna Vydana and Anil Kumar Vuppala
4. Indian Language Identification using Deep Neural Networks - Mounika K V, Sivanand Achanta, Hari krishna V, Ravi Kumar V, and Anil Kumar Vuppala
5. Speech and Speaker Recognition in Emotional Conditions - V V Vidyadhara Raju, K N R K Raju Alluri, Suryakanth V Gangashetty, and Anil Kumar Vuppala
6. Deep Learning for Multi-Lingual and Polyglot Text-to-Speech Synthesis - Sivanand Achanta and Suryakanth V Gangashetty
7. Determination of Glottal Open Regions by Exploiting Changes in the Vocal Tract System Characteristics - Ravi Shankar Prasad and B. Yegnanarayana
8. Speech-based Access for Agricultural Commodity Prices and Weather Information in Telugu - Raghu Ram Nevali, Nivedita Chennupati, Vishala Pannala, S. Rajendran, Suryakanth V Gangashetty and B. Yegnanarayana

## **Lab for Spatial Informatics (LSI)**

### **Second Floor - Room Number 303**

1. Algorithm and QGIS Plugin for water leakage detection using sensor data - Nancy , Dr K S Rajan
2. LSIVIEWER 2.0 - A Client oriented visualisation tool for geospatial vector data - K Manikanta, Dr K S Rajan
3. Visualization of land cover transitions impetus to developments in Karwar region of Central Western Ghats - Bharath Setturu, Dr K S Rajan, Ramachandra T V
4. Prediction of Vegetation dynamics using NDVI time series data and LSTM - D Sushma Reddy, Dr. Ramachandra Prasad
5. Differentiating volcanic ash plumes from Meteorological clouds - Malini Krishnan, Dr. K.S. Rajan
6. Canal path routing - Sai Chaitany, Dr K S Rajan
7. Regional Hydrological Impacts of Climate Change using GCMs and RCMs - Dr.Shaik Rehana, N T Monish, G Sireesha
8. Scanline based processing of LiDAR data for building segmentation - Gaurav Parida, Dr K. S. Rajan
9. Evaluation of shortest path computation over a statistically derived contracted road network - Rohith Reddy, Mukul Priya, Dr K.S. Rajan
10. Open Source Contributions towards pgRouting
11. Detection of Contamination in Nagarjuna Sagar Reservoir - K Tarun Teja, Dr K. S. Rajan
12. Land use modelling in Barak valley - Jyoti Misra, Dr. K. S. Rajan
13. Geospatial Assessment of Spatio-Temporal Changes in Mangrove Vegetation of Pichavaram region, Tamil nadu, India - M Vani, Dr P Ramachandra Prasad
14. Modeling crowd dynamics using simulation - Anurag Tyagi, Dr. K.S. Rajan
15. Interactive Spatial Data Viewer - Neha Pande, Dr. K. S. Rajan
16. MAARGHA: A System for Road Condition and Surface Type Estimation by Fusing Multi-Sensor Data - Bhavana Gannu, Dr.K.S.Rajan
17. Impact of mining on forest ecosystems: A case study from Khammam District, Telanagana, India - Anitha Jaldi, Dr P Rama Chandra Prasad
18. GEOSPATIAL ANALYSIS OF CLIMATE INDUCED CHANGES IN EASTERN GHATS ECOSYSTEM - N N Salghuna, Dr Rama Chandra Prasad
19. Detection of candidate buildings using fast ICA and MSER from VHR satellite imagery Lipika Agarwal, K S Rajan
20. Conceptual Framework of Development of GIS based LULC dynamic model to study the impact of climatic changes & anthropogenic factors - Yesu Sharma, Dr. K. S. Rajan
21. Urban Flood Inundation Risk Assessment For The Upcoming Amaravati City-State Capital of The Newly Formwed Andhra Pradesh - M Vani, Dr K S Rajan
22. GTree based GML compression model - Ayush Khandelwal, Dr. K.S. Rajan
23. Modeling crowd dynamics using simulation - Anurag Tyagi, Dr. K.S. Rajan
24. Using No-sql databases in Spatial Context - Sarthak Agarwal, Dr. K.S. Rajan
25. Change-Event Detection in Temporal Signature using Satellite Imagery - Darpan Baheti, Dr. K.S. Rajan



## **Center for Computational Natural Sciences and Bioinformatics (CCNSB)**

### **Second Floor - Room Number 304**

1. Classification and Prediction of Biomarkers for Papillary Renal Cell Carcinoma Stage Progression - Noor Pratap Singh, Dr Vinod PK, Dr Bapi Raju
2. Systems-level organization of non-alcoholic fatty liver disease progression network - Shubham K, Vinay L, Vinod P K
3. Thermodynamics of Tetramerization of BM2 proton channel - Janani Sundar, Prabhakar Bhialapuram
4. StRiPs: Database of Structural Repeats in Proteins - Broto Chakrabarty, Nita Parekh
5. Atomistic details of urea\_nucleobase interactions - Tanashree J
6. Transcriptome Analysis of Rice Cultivar under Drought Stress condition - Rishi Sethia, Sanchari Sircar and Nita Parekh
7. Systematic study of CO oxidation catalysed by bimetallic trimers of the form  $Au_{3-x}Y_x$ , where  $Y = Ag, Pt, Pd$  and  $x = 1-3$  - Saumya Gurtu, U. Deav Priyakumar
8. pCNVD: An integrated NGS-based pipeline for CNV detection - Prashanthi Dharanipragada, Sriharsha Vogeti, Nita Parekh
9. Identification and Analysis of Copy Number Variants in Human Genome - Vidushi Walia, Prashanthi Dharanipragada, Nita Parekh
10. CCPM: Computational Core for Plant Metabolomics - A synergistic alliance of chemistry, biology and computer science - Abhijit Mitra, Indira Ghosh, Isha Saini, Jaspreet Singh, Kapil Sharma, Madan Jhanwar, Nita Parekh, Pratibha Rani, Rajesh Prasad, Rajkishore Mohapatra, Rama Kalia, Rohit Modee, Saket Maheswary, Sanchari Sircar, Shailesh Panday, Tejas Shah, Vikram Pudi and Vamshi Krishna Reddy
11. CCPM: Computational Core for Plant Metabolomics - A synergistic alliance of chemistry, biology and computer science - Abhijit Mitra, Indira Ghosh, Isha Saini, Jaspreet Singh, Kapil Sharma, Madan Jhanwar, Nita Parekh, Pratibha Rani, Rajesh Prasad, Rajkishore Mohapatra, Rama Kalia, Rohit Modee, Saket Maheswary, Sanchari Sircar, Shailesh Panday, Tejas Shah, Vikram Pudi and Vamshi Krishna Reddy

## **Cetner for Security Theory and Algorithms (CSTAR)**

### **Second Floor - Room Number 304**

1. Provably secure biometric-based user authentication and key agreement scheme in cloud computing - Mohammad Wazid
2. A three-factor authentication and key agreement scheme for session initiation protocol - Sravani Challa
3. A Fast GPU Algorithm for Biconnected Components - Mihir Wadwekar
4. Graph Decomposition for parallel computing applications - Mahak Gambhir
5. Parallel Algorithm for Finding Connected Components of 3D Points - Dharma Teja

## **Center for VLSI and Embedded Systems Technology (CVEST)**

**Second Floor - Room Number 304**

1. RF biosensor for detection of virus - Pratik Porwal
2. Design of low power VLSI architecture and ASIC implementation of Fuzzy logic based automatic car parking system - Pratik Porwal
3. Ultrafast ADC for RF applications - Apuroop Kumar Reddy
4. Nutrient value identifier for food products - Nikita Chaturvedi

## **Signal Processing and Communication Research Center (SPCRC)**

**Second Floor - Room Number 304**

1. Maximally Recoverable Codes: Correctable Erasure Patterns for Product Topologies - D. Shivakrishna, Lalitha Vadlamani
2. Filter Bank Multi-Carrier (FBMC) for 5G - Keesara Upender Reddy
3. Index Coding: A means for efficient broadcasting - Vijaya Kumar, Prasad Krishnan
4. Coded Caching - Ishani chugh, Hari hara suthan, Prasad Krishnan
5. Cooperative Energy Detection using Dempster-Shafer Theory under Noise Uncertainties - Prakash Bopatra

# Structural and Earthquake Engineering Research Center (EERC)

## First Floor - Room Number 203

### Posters

1. Interactions and seismicity of Indian Tectonic Plate with its neighboring plates: An overview - P. V. Dilip Kumar, R. Pradeep Kumar, Abhilash
2. Numerical study of spatial variation of ground motion by modeling dip slip surface faults - Md. Ahmed Hussain, R. Pradeep Kumar, Izaj Ahmed
3. Determination of Geophysical parameters for Himalayan Region - C. Rajaram, P.V.S. Neelima, R. Pradeep Kumar, Jayasri
4. SSI analysis of framed structures supported on Pile foundations: with and without interface elements - Pulikanti Sushma, R. Pradeep Kumar, Ketan
5. Absorbing Boundary Conditions for Visco-Elastic Wave Propagation in Unbounded Domains - Ravishankar Badri, R. Pradeep Kumar, Naveen
6. Modeling of combined behavior of brick masonry infill and Reinforced Concrete frame - P.V.S. Neelima, R. Pradeep Kumar, Raghuvveer
7. Effect of weak and soft story on seismic performance of reinforced concrete frames with unreinforced brick infills - P.V.S. Neelima, R. Pradeep Kumar, Shailaja
8. Rationalizing response reduction factor (R) for better performance of reinforced concrete framed buildings - Swajit Singh Goud, R. Pradeep Kumar, Santosh
9. Strengthening and repair of 5 storey Rc ductile detailed structure with open ground storey - Swajit Singh Goud, R. Pradeep Kumar, Srikanth
10. Affect of size of wall openings in upper storeys on earthquake response of RC structures - Swajit Singh Goud, R. Pradeep Kumar, Supriya
11. 3D Modeling of pounding between adjacent buildings - C. Rajaram, R. Pradeep Kumar, U. Suresh
12. Expended energy based damage assessment of RC bare frame using nonlinear pushover analysis, A. Vimala, R. Pradeep Kumar, Varundeep
13. Numerical study on concrete gravity dam subjected to fault motion - Jagan Mohan, R. Pradeep Kumar, Usama Khan
14. Determining Vulnerability score modifiers for parameters that affect the Rapid Visual Survey (RVS) score: A numerical study - Aniket B., R. Pradeep Kumar, Md. Arbaaz
15. Earthquake behavior of reinforced concrete framed buildings on hill slopes - S Ajay Kumar, R. Pradeep Kumar, Prathima
16. Seismic safety of joints in precast buildings: A state of the art literature review - Ch. Ravikanth, R. Pradeep Kumar, Sana
17. Micro-tremor response of buildings in high seismic area: A case study on RC framed buildings in Chandigarh, India - B. Narender, D. Hima Chandan, R. Pradeep Kumar, T. Ito, K. Takano, Theja
18. Evaluation of Empirical expression for fundamental period of RC moment resisting frames and RC shear wall buildings in India - Pulkit D. Velani, R. Pradeep Kumar, Tarun
19. Effect of Openings and Aspect Ratio on Overall Performance of RC Framed Brick Infilled Buildings - Archana Dongre, R. Pradeep Kumar, Sheela

## **Structural and Earthquake Engineering Research Center (EERC) (Contd...)**

### **First Floor - Room Number 203**

20. Earthquake resistant design guidelines for structural members - --
21. Web Application for Generation of Shake Map: A Case Study on Vijayawada City, India - Anchal Pandey, R. Pradeep Kumar, Anchal Pandey
22. Web Application for Post Earthquake Occupancy Assessment and Earthquake Vulnerability Assessment of Buildings - Anuj Agrawal, R. Pradeep Kumar, Anuj Agrawal
23. Performance Based Seismic Design of a Signature Structure Partly Resting on a 'Y' Shape Column - Niranjana Godage, R. Pradeep Kumar, Niranjana Godage
24. Comparison of RC Structures with and without Brick Infills - Akhil Lambade, R. Pradeep Kumar, Akhil Lambade
25. Numerical Study for Finding Fundamental Period of Buildings Resting on Hill Slopes - Srinath Gundoji, R. Pradeep Kumar, Srinath Gundoji
26. Understanding Secondary Damages due to Non-Structural Elements in High-Rise Buildings - Ramya Gullapalli, R. Pradeep Kumar, Ramya Gullapalli
27. Web Application for Linear Analysis and Monitoring of Rectangular Glass Panels Subjected to Wind and Seismic Loads - Ayan Srivastava, R. Pradeep Kumar, Ayan Srivastava
28. Seismic Performance of RC Frames with Conventional Bricks and AAC(Autoclaved Aerated Concrete Blocks) as Infill - Ankita Degaonkar, R. Pradeep Kumar, Ankita Degaonkar
29. Seismic Performance of RC Framed Structure with URM and SIM Infill Panels - Mangesh Shendkar, R. Pradeep Kumar, Mangesh Shendkar
30. Effect of Discontinuous Diaphragm under Seismic Loading - Chilambarasan T., R. Pradeep Kumar, Chilambarasan T.
31. Performance of RC Building with Partial Frames Designed for Earthquake Resistance - Mohammed Yousuf, R. Pradeep Kumar, Mohammed Yousuf
32. Comparative study on Sloshing Frequencies of Water Tank System - Abhijeet Babar, R. Pradeep Kumar, Abhijeet Babar
33. Aerodynamics Profiling of Terminal Building using Computational Fluid Dynamics approach - Vidhya S., R. Pradeep Kumar, Vidhya S.

### **PROJECT POSTERS**

34. Structural health monitoring of building using IITK sensor due to seismic disturbances in Chandigarh, India - Pulkit D Velani
35. Risk assessment of existing building in Nanded city - Aniket B.
36. Seismic Analysis and Design Recommendations for Uran-Chakan-Shikrapur LPG Pipeline - P. Neelima
37. Vulnerability Assessment of Heritage structure (Ramappa Temple) due to Blast Induced Ground motions - Keerthana
38. Assessment of vulnerability of installation near Gujarat coast Vis-à-vis seismic disturbances - Thushara P.
39. Hazard, Vulnerability & Risk Assessment of Himachal Pradesh - Masheshwar N.

## Structural and Earthquake Engineering Research Center (EERC) (Contd...)

### First Floor - Room Number 203

#### MODELS/DEMOS

40. Strong column weak beam, RC detailing - Saurabh A.
41. Fault with and without topography - Manoj
42. Base Isolation - Chaitanya R. Y.
43. Soft storey effect brick infill - Ravali
44. Soft storey effect braced frame - Jubin
45. Building vibration sensors - Raju S.
46. Indian housing - Shiva Rama K.
47. Mola structural tool kit - Anshu Singh
48. Detailing - Krishna Babu
49. Period of vibration - Mounika
50. Seismograph - Karthik P.
51. Torsion Effect - Harshwardhan Patil

## **Geotechnical Engineering Laboratory (GTEL)**

### **First Floor - Room Number 202**

1. SOIL MECHANICS COURSE DEVELOPED UNDER PEDAGOGY PROJECT (MHRD) - Neelima Satyam D
2. VIRTUALIZATION OF GEOTECHNICAL LABORATORY - M.Sai Vivek
3. DEVELOPMENT OF LIQUEFACTION ASSESSMENT TOOL - M.Sai Vivek
4. GROUND RESPONSE ANALYSIS OF VISAKHAPATNAM CITY, INDIA - P. Swathi Priyadarsini
5. SEISMIC ANALYSIS OF SHALLOW FOUNDATION ON LAYERED SOIL DEPOSITS - M.V. Ravi Kishore Reddy
6. COMPARATIVE STUDY OF DYNAMIC RESPONSE ANALYSIS OF SHALLOW FOUNDATION ON LAYERED SOILS - M.V. Ravi Kishore Reddy
7. NUMERICAL ANALYSIS OF FOUNDATION RESTING ON REINFORCED SOIL DEPOSIT - M.V. Ravi Kishore Reddy
8. NUMERICAL ANALYSIS OF PILES IN THE LIQUEFIABLE SLOPING GROUND - V. Durga Prasad
9. ANALYSIS OF BURIED PIPELINE SUBJECTED TO STATIC LOADING - V. Durga Prasad
10. RISK ASSESSMENT OF BURIED PIPELINES - V. Durga Prasad
11. SEISMIC ANALYSIS OF BURIED PIPELINE - V. Durga Prasad
12. CHALLENGES IN TUNNELING THROUGH MIXED HIMALAYAN GEOLOGY - Ambika Srivastava
13. NUMERICAL MODELING OF JOINTED ROCK SLOPE - I.V.Sarma
14. DYNAMIC ANALYSIS OF SLOPES IN SIKKIM, INDIA - G. Neharika Rao
15. DESIGN OF BATTER PILES FOR INDUSTRIAL BUILDINGS - M.K.M.V.Ratnam & Sheela N
16. MATHEMATICAL MODELS FOR EARLY WARNING OF LANDSLIDES INDUCED BY RAINFALL - Abhirup Dikshit
17. RAINFALL THRESHOLDS FOR THE POSSIBLE OCCURRENCES OF LANDSLIDES - Abhirup Dikshit
18. A COMPARISON BETWEEN LINEAR AND NONLINEAR SEISMIC BEHAVIOR OF EARTH DAM ON LAYERED SOIL - Ambarakonda Pooja
19. SEISMIC BEHAVIOR OF STONE COLUMN ON A SLOPING LAYERED SOIL - Chamala Surendrareddy
20. SMART WATER MANAGEMENT SYSTEM (AQUASENSE) - Shaik Asjad Ali
21. DEVELOPMENT OF EFFECTIVE WIRELESS SENSOR NETWORK FOR WATER QUANTITY MONITORING (AQUASENSE) - Shaik Asjad Ali
22. SHAKE TABLE SIMULATOR MODEL - ARDUINO MATLAB INTERFACE. ('PS: MODEL IS AVAILABLE ') - Pathan Muzaffar Ali Khan
23. DYNAMIC STABILITY ANALYSIS OF STRUCTURES ON HILLY SLOPES: A STUDY FOR AIZAWL CITY - Shambhavi Dube
24. STATE OF ART: DESIGN AND PRACTICE OF PILED RAFT FOUNDATIONS FOR VARIOUS STRUCTURES - Akhil Lamdade
25. SEISMIC HAZARD ASSESMENT OF KOLKATA CITY - Prathima Reddy
26. 2D AND 3D GROUND RESPONSE ANALYSIS OF POND ASH DEPOSIT - Jubin Kumar Soni
27. EFFECT OF BLAST LOADS ON UNDERGROUND TUNNEL - Jallepalli Krishna Jagadeesh
28. 1D GROUND RESPONSE ANALYSIS OF BHUBANESWAR SOIL IN INDIA - Sahith Rachamalla

## **Center for Exact Humanities (CEH)**

### **Second Floor - Room Number 301**

1. Mission statement
2. Ontology of Parliamentary Debates - Sakala Venkata Krishna Rohit
3. Analysis on Harmful Speech on Internet - Sanjana Sharma
4. Improvised sequence Generation in North indian Classical Music - Kartavya Gupta
5. Human curiosity - Lasya Venneti
6. Legal theory and analysing the problem of Land Acquisition in India - Sreekavitha Parupalli
7. Sarcasm Detection – Taradheesh Bali
8. Poetry Analyzer - Amitha G.
9. Understanding Bias in Media - Sneha Nanavati
10. Social Audit - Dhruv Sapra
11. Lexical Psychology - Isha Mangurkar
12. A legal MediaWiki - Arjit Srivastava
13. Analysis of International Conflicts - Venumadhav Kattagoni
14. Qualificatory Property - Shantanu Prabhat
15. Formal analysis of sports - Sravya Gurram
16. Methods for collaboration in curation platforms - Priyanka Suresh
17. Ontology and grammar of dance - Sonal Nimbkar
18. Revitalizing Diversity: A formal study of traditional Jajmani - Harsh Satya
19. Blending of Sound and Vision: Study of Ragamala paintings in relation with Hindustani music - Banatanwi Dasmahapatra
20. Formal Ontology of painting: Spandana of events on 2D - Pooja Kaul
21. Generative Ontology of Vaisheshika - Rajesh Tavva
22. Limories: Capturing the sense of past of localities - Lakshmi Valsalakumari
23. Folk forms of music - Saroja T. K.
24. Styles and Icons: Formal study of Indian folk paintings - Sunil Lohar
25. Theory of photography as arts and aesthetics - Naini Arora
26. Causality of Movements - S. Jayachandran

## **Cognitive Science Laboratory (COGSCI) - Posters**

### **Second Floor - Room Number 304**

#### **Posters**

1. A Unifying Theoretical Framework for Cognitive Sequencing - Tejas Savalia, Anuj Shukla, Raju S. Bapi
2. Effect of Caffeine on Human Time Perception - Remya Sankar, Anuj Shukla, Raju S. Bapi
3. Effects of Variable Response-Stimulus Interval on Sequencing Learning - Sneha Kummetha, Anuj Shukla, Raju S. Bapi
4. Spatial Location and Time Judgement - Anuj Shukla, Raju S. Bapi, Priyanka Srivastava.
5. A biologically inspired neuronal model of reward prediction error computation - Pramod Kaushik, Raju S. Bapi
6. Deep Representation of Aesthetic Attributes - Gautam Malu, Raju S. Bapi, Bipin Indurkha.
7. How the Excitation-Inhibition (E/I balance) mechanism can be used for optimizing tDCS protocol: A computational investigation - Snigdha Dagar, Shubhajit Roy chowdhury, Raju S. Bapi, Dipanjan Roy
8. Metastability of resting brain in healthy aging - Shruti Naik, Oota Subbareddy, Dipanjan Roy, Raju S. Bapi
9. Empathy and social attitudes towards woman rape victims - a behavioral and neural correlate study - Mohit Goel, Nikita Sharma, Kavita Vemuri
10. Face Color Perception - Nikita Sharma, Kavita Vemuri
11. Building Game for Pattern Recognition Intelligence - Nithiya Shree, Jahanvi Nukkireddy, Kavita Vemuri

## **Cognitive Science Laboratory (COGSCI) - Demos**

### **(Vindhya A4, Ground Floor, Room Number B5 102A, Cognitive Science Lab Area)**

#### **Demos**

1. Augmented sand table - Srinivas & Sravya, Ravi Ganta:
2. (a) Compelled Body Weight Shift exercise post stroke by way of an integrated system of hardware/game software.  
(b) Game induced constraint arm movement post stroke or other motor deficiency conditions.  
(c) Muscle strength recovery post stroke or injury by game controlled exercise.  
- Rajat and Mayank
3. Amptlopia - diagnostics and intervention game application - Kanishk

## **Center for Innovation & Entrepreneurship (CIE)**

### **Second Floor - Room Number 303**

1. 3D Printed Smart Surgical Kits - Anil Kumar Upadhyay, Chitrallekha Upadhyay, Vilasagram Ravi, Rohit, Arun Chandra, T R Avinash, Vani - Five Fingers Innovative Solutions @ IIITH-Foundation
2. eBhasha Setu: Providing Technology Assisted Human Translation (Tech@Hut) service in India Languages - Rashid Ahmad, Sanket Kumar Pathak, Priyank Gupta
3. Froogal (a student startup) - Jeevan Chowdary, Harshit Harchani, Harshit Goel - IIITH-Foundation
4. GoLive Gaming Solutions - Ravi Kiran
5. Universal Multifunction Accelerator - Bhaskar, Aditya, Anil - Manjeera Digital Systems Pvt. Ltd.



## Software Engineering Research Center (SERC) and Virtual Labs

### Second Floor - Room Number 302

1. Model based approach to study defect dependency in Large Scale Integrated Software Products - Sai Anirudh Karre, Y. Raghu Reddy
2. Quality Control in Crowdsourcing - Lalit Sanagavarapu
3. Mitigating Browser-based DDoS attack using CORP - Akash Agrawall, Krishna Chaitanya Telikicherla, Arnav Kumar Agrawal and Venkatesh Choppella
4. Credibility - Shriyansh Agrawal
5. Block chain - Sai Krishna
6. Distributed Safety Verification - Adhish Singla, Adhish Singla, Krishnaji Desai, Suresh Purini and Venkatesh Choppella
7. UMETRIX - Usability Evaluation Framework for Mobile Apps - Sai Anirudh Karre, Y. Raghu Reddy, Neeraj Mathur
8. Accurus: A Fast Convergence Technique for Accuracy Configurable Approximate Adder Circuits - Vinamra Benara, Vinamra Benara and Suresh Purini
9. A DSL Compiler for Accelerating Image Processing Pipelines on FPGAs - Nitin Chugh, Vinay Vasista, Suresh Purini, Uday Bondhugula
10. An Inter-Cloud Marketplace Model with Multiple Brokers for IaaS Layer and Generalized Stable Matching - Shrenik Jain
11. Fast Algorithms for Optimal Coalition Formation in Federated Clouds - Yash Khandelwal, Suresh Purini, Puduru V. Reddy
12. Gamification in Software Engineering: Why and How? - Shivam Khandelwal, Sai Krishna Sripada, and Y. Raghu Reddy
13. Lock-free Hopscotch Hash Tables for Multi-cores - Ziaul Haque Choudhury, Suresh Purini
14. Design of Educational Technologies for Billion Learners - A Software Engineering Approach - Sridhar Chimalakonda
15. Migration of Flash files to HTML5 & JS - Yogesh maheshwari
16. Unsupervised Learning Based Approach for Plagiarism Detection in Programming Assignments - Yasaswi Bharadwaj, Sri Kailash, Anil, Suresh Purini, CV Jawahar
17. Virtual Labs : Making Engineering Education Engaging, Enjoyable, Immersive and Online - VLEAD Center
18. Heterogenous CPU+GPU Working-set Structure - Ziaul Haque Choudhury, Suresh Purini
19. About Virtual Labs - VLEAD
20. Virtual Labs Off-line - The College Cloud - VLEAD
21. Virtual Labs Systems and Network Topology - VLEAD
22. Virtual Labs Usage Architecture - VLEAD
23. Virtual Labs on Open edX Platform - VLEAD
24. Generalized Dining Philosophers as Feedback Control - Arjun Sanjeev
25. Requirements Specification for Reactive Systems: A Problem Solving Approach - Arjun Sanjeev
26. Design of a Programming Paradigm for Billion Users Programs, Proofs & Indian Languages - Prof. Keshav V Nori

## **Machine Learning Laboratory (MLL)**

### **First Floor - Room Number 201**

1. Priority based traffic management system during emergency evacuation - Gaurav & Sreeja
2. Scalable algorithm for solving event based multi agent mdps using probabilistic inference - Tarun Gupta
3. Improving Surveillance using Cooperative Target Observation - Rashi & Sai Krishna
4. Automated Negotiation - Aditya Srinivas
5. Mechanism Design For Modern AI and Web Applications - Sujit Gujar and Susobhan Gosh