R & D Showcase 2018
24th - 25th February, 2018

List of Posters/Demos/Models

Research Center Activity Posters - Room Numbers 101 and 102

Industry Oriented Projects Posters - Kohli Research Block Exhibition Hall (KRBEH)

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

Number of Posters/Demos/Models: Total - 259

Data Sciences and Analytics Center (DSAC)

Second Floor - Room Number 303

1. Energy Conscious and Failure Resilient Over-actuated Multi-Agent Payload Transport System - Rahul Tallamraju, Pulkit Verma, Shrey Agrawal, Kamalakar Karlapalem
2. Agent strategies for Hide-and-Seek game - Akshat Tandon, Kamalakar Karlapalem
3. Battery Aware Scheduling for Multi-Robot Payload Transport System - Pulkit Verma, Rahul Tallamraju, Abhay Rawat, Subhasis Chand, Kamalakar Karlapalem
4. AutoLearn-Automated Feature Generation and Selection - Ambika Kaul, Saket, Vikram Pudi
5. Semi supervised Data Driven Word Sense Disambiguation for Resource-poor Languages - Pratibha Rani,Vikram Pudi
6. User Preference modeling for music recommendation - Kartik Gupta, Noveen, Vikram Pudi
7. Controversy Detection using Reactions on Social Media - Sri Teja, Prakhar, Vikram Pudi
8. Injecting Word Embeddings with Another Language's Resource : An application of Bilingual Embeddings - Prakhar Pandey, Vikram Pudi
9. Concept of Diverse Frequent Patterns - Kumara Swamy, P Krishna Reddy
10. Improving Diversity Performance of Association Rule based Recommender Systems - Kumara Swamy, P.Krishna Reddy
11. Association Rule Based Approach to Improve Diversity of Query Recommendations - Kumara Swamy, P.Krishna Reddy
12. A Framework to Improve Reuse in Weather-based DSS – Mamatha, P.Krishna Reddy
13. A Framework to Improve Reuse in Weather-based DSS based on Coupling Weather conditions. – Mamatha, P.Krishna Reddy
14.Memory Efficient Mining of Periodic Frequent Patterns in Transactional Databases – Anirudh, Amulya, P.Krishna Reddy
15.A Novel Compression Technique to Discover Recurring Patterns in Transactional Databases - Anirudh, Amulya, P.Krishna Reddy
16. Discovering Periodic-Frequent Patterns in Transactional Databases using All-Confidence and Periodic-All-Confidence - J. N. Venkatesh, Yashwanth Reddy, P.Krishna Reddy
17. Discovering Partial Periodic-Frequent Patterns in a Transactional Database - J. N. Venkatesh, Yashwanth Reddy, P.Krishna Reddy
18. An Approach to allocate advertisement slots for banner advertisement – Kavya, P.Krishna Reddy
19. An Improved Search Engine Adverising to Exploit Adslots of Long Tail Keywords – Amar, Lakshmi Gangumalla, P.Krishna Reddy
20. Improving Ad-words with Coverage Patterns – Amar, Lakshmi Gangumalla, P.Krishna Reddy

IT for Agriculture Research Center

Second Floor - Room Number 303

1. Village level eSagu - Vyshnavi Gutta, P.Krishna Reddy
2. eSagu Sample advisories English - Shadaab Siddique, P.Krishna Reddy
3. eSagu Sample advisories Telugu - Revanth Rathan Parvathaneni, P.Krishna Reddy
4. eSagu-BEL-CSR Project Summary – Savithri, Seetha K V, P.Krishna Reddy

5 eAgromet: ICT-enabled Integrated Agro-Meteorological Advisory System – Chinmay, P.Krishna Reddy

6. The Architecture of eAgromet - Akhil Ralla, P.Krishna Reddy
7. Virtual crop labs - Sai Karthik Maddela, P.Krishna Reddy
8. Farmer Question Support Systems - U Narendra, P.Krishna Reddy,

Center for Visual Information Technology (CVIT)

Ground Floor - Room Number 103

1 Indian News Video Analysis Based on Identification of Celebrities - Saurabh Ravindranath, Megh Parikh, Aditya Bharti, Prof. C. V. Jawahar

2 Eye Gaze Gaming - Isha Dua, Deepanshu Jain, Prof. C. V. Jawahar

3 Indian Digital Heritage Project - Sahil Chelaramani, Vamisidhar Muthireddy, Samyaksh Yadav, Prof. C. V. Jawahar

4 Leaf project (Leaf recognition, Leaf Database) - Vamsidhar Muthireddy, Nikhil Sharma Rayaprolua, Prof. C. V. Jawahar

5 Sports Analytics Using Computer Vision - Anurag Ghosh, Prof. C. V. Jawahar

6 Intelligent Wheelchair Platform - Vishnu Sashank Dorbala, Prof. C. V. Jawahar

7 Handwritten Document Analysis - Kartik Dutta, Vijay Rowtula and Praveen Krishnan, Prof. C. V. Jawahar

8 Cityscale Road Audit System using Deep Learning - Sudhir Kumar,, Girish Varma, C. V. Jawahar

9 Autonomous navigation in Indian setting - Sudhir Kumar, Ashutosh, Girish Varma, C. V. Jawahar

10 Deeplearning on Mobiles - Sudhir Kumar, Sriharsh, Dr. Girish Varma and Prof. C. V. Jawahar

11 Hindi Commentary on Cricket videos - Jerin, Prof. C. V. Jawahar

12 Image forgery detection - Yeshas Annadani, Prof. C. V. Jawahar

13 OCR - Mineesh Methew, Prof. C. V. Jawahar

14 Optimization on Machine Learning - Pritish Mohapatra, Prof. C. V. Jawahar

15 Automatic Calibration of molecular force fields using ML - Tarun Kalluri, Prof. C. V. Jawahar

16 Summarization the MIP group research - Arunava Chakravarty, Prof. Jayanthi Sivaswamy

17 Fundus image enhancement - Sukesh Adiga V & Anurag Deshmukh, Prof. Jayanthi Sivaswamy

18 OCT layer segmentation - Arunava Chakravarty, Prof. Jayanthi Sivaswamy

19 Online fundus annotation tool for cup & disk - Divyajyothi Gaddipati, Prof. Jayanthi Sivaswamy

20 Depth from Focus on iPhone - Parikshit, Aakash Ajit, Prof. P. J. Narayanan

21 Colour Consistent Sky Search and Replacement - Rajvi, Saumya, Siddharth, Prof. P. J. Narayanan

22 Human shape capture and tracking - Gaurav, Saurabh, Prof. P. J. Narayanan

23 Binary Neural Networks for Sketch Classification - Ameya Prabhu, Vishal Batchu, Aurobindo Munagala, Rohit Gajawada, Prof. Anoop M. Namboodiri

24 Shadow Removal in Document Images - Vatsal Shah, Dr. Vineet Gandhi

25 Document Image Quality Assessment - Pranjal Kumar Rai, Dr. Vineet Gandhi

26 Computational Cinematography - Moneish Kumar, Kranthi Kumar Rachavarapu, Dr. Vineet Gandhi

27 Soccer top view projection - Bharat Bhat, Dr. Vineet Gandhi

28 Unsupervised visual grounding of phrases - Ashar Javed, Dr. Vineet Gandhi

29 Small obstacle discovery for autonomous vehicles - Ashar Javed, Dr. Vineet Gandhi

30 Non-Rigid Shape Aquisition - Jinka Sagar, Dr. Avinsah Sharma

31 Multiple Kernel Learning Model for Relating Structural and Functional Connectivity in the Brain - Govinda Sumarpudi, Joyneel Misra, Dr. Avinsah Sharma

32 Temporal Multiple Kernel Learning (t-MKL) model for predicting resting state FC via characterizing fMRI connectivity dynamics - Govinda Sumarpudi, Joyneel Misra, Dr. Avinsah Sharma

Robotics Research Center (RRC)

Ground Floor - Room Number 104

Demos

1. Modular pipe climbing robot - Enna Sachdeva, Akash Singh, Vinay Rodrigues, Hanisha, Kartik, Abhishek Sarkar, K. Madhava Krishna
2. Pick and Place of small object using drone - Gourav Kumar, Pravin Mali, Ashwin Kuruttukulam, K. Madhava Krishna
3. Autonomous visual parts inspection using drone - Harit Pandya, Ayush Gaud, K. Madhava Krishna
4. Autonomous Car - Siddharth Singh, Adarsh Modh, Sai Bhargav, Karnik Ram, K. Madhava Krishna
5. Obstacle Avoidance with Drone - Danish Sodhi, PSSN Jyotish, K. Madhava Krishna

Posters

6. Parking Assistant Drone - Gourav Kumar, Ayush Gaud, Saket Saurav, K. Madhava Krishna
7. Visual Parts inspection Using Drone - Ayush Gaud, Harit Pandya, K. Madhava Krishna
8. Autonomous Car - Siddharth Singh , Adarsh Modh , Sai Bhargav, Karnik Ram, K. Madhava Krishna
9. Obstacle Avoidance with Drone and Trajectory tracking control - Jyotish, Danish Sodhi, K. Madhava Krishna
10. Monocular Reconstruction and Tracking of Vehicles: Junaid Ahmad Ansari, Sarthak Sharma, Gokul B. Nair, K. Madhava Krishna
11. Pipe Climber, Reconfigurable Robot: Enna Sachdeva, Akash Singh, Vinay Rodrigues , Hanisha , Kartik Suryavanshi, Abhishek Sarkar, K. Madhava Krishna
12. Deep RL for Humanoid: - Singamaneni Phani Teja, Parijaat Devangan, Abhishek Sarkar, K. Madhava Krishna
13. Object SLAM - Jayaganesh, Aniket Pokle, parvparkhiya , Rishabh Khawad, Nayan Joshi, Yogesh Sharma, K. Madhava Krishna
14. Part Based Segmentation - Krishna Sumanth, Badri, K. Madhava Krishna
15. A Planning Approach for Robot Navigation in Minefield - Tushar Vaidya (Robotics Research Center), Ms Mohini Pande (Emerson Innovation Center), Dr Praveen Prachuri (Machine Learning Lab), Dr K Madhava Krishna (Robotics Research Center), Dr Christopher Amato (Northeastern University),

Undergraduate Students Work

16. ABU Robocon competition - Pravin Mali, Aditya Aggarwal, Unni Krishnan, Abhishek Sarkar K. Madhava Krishna

Language Technologies Research Center (LTRC): Natural Language Processing (NLP)/Machine Translation (MT) and Anusaraka Lab

First Floor - Room Number 204

1. Deep Neural Network based system for solving Arithmetic Word problems - Vinayak Athavale, Pruthwik Mishra, Purvanshi Mehta, Manish Shrivastava, Dipti Misra Sharma
2. Multilingual Sentiment Analysis of Brands and Trends - Nurendra Choudhary, Rajat Singh, Dr. Manish Shrivastava
3. Resource Creation Towards Automated Sentiment Analysis in Telugu (a low resource language) and Integrating Multiple Domain Sources to Enhance Sentiment Prediction - Rama Rohit Reddy Gangula and Radhika Mamidi
4. Joining hands: Exploiting monolingual treebanks for parsing of code-mixing data - Irshad Ahmad Bhat, Riyaz Ahmad Bhat, Manish Shrivastava, Dipti Misra Sharma
5. Anusharaka - English - Hindi MT System - Vineet Chaitanya, Soma Paul, Priyank Gupta
6. Sampark - IL-IL MT Systems - Rashid Ahmed, Priyank Gupta, Dipti Misra Sharma
7. Creating a Telugu Chatbot - Suma Reddy Duggenpudi, Perada Vivek Chandra, Regatte Yashwanth Reddy, Radhika Mamidi
8. Mirror on the wall: Finding Similar Questions with Deep Structured Topic Models - Arpita Das, Harish Yenala, Manish Shrivastava, Manoj Chinnakotla

LTRC: Information Retrieval and Extraction Lab (IREL)

First Floor - Room Number 204

Demos

1. A workbench for rapid generation of Cross Lingual Summaries - Nisarg Jhaveri
2. Hate Speech detection in Social Media - Pinkesh Badjatiya
3. Recurrent Attention Recommendation Engine for News - Vaibhav Kumar
4. Believe it or Not! Identifying Bizarre News in Online News Media - Vijaysarthi Indurthi
5. Persona Classification in Medical Social Media - Nikhil Priyatam
6. Cross Lingual Information Access - Nikhil Priyatam

Posters

7. Unity in Diversity: Learning Distributed Heterogeneous Sentence Representation for Extractive Summarization - Abhishek Kumar Singh
8. Hybrid MemNet for Extractive Summarization - Abhishek Kumar Singh
9. Multi Task Learning for Extraction of Adverse Drug Reaction Mentions from Tweets - Shashank Gupta and Nitin Ramrakhiyani

Work in Progress

10. Q-Net: A deep dependency learning architecture for duplicate question-pair detection - Bakhtiyar Syed
11. Mobile Usability Evaluation - Vachaspathi Ramakrishnan (Demo)

LTRC: Speech Processing Laboratory (SPL)

First Floor - Room Number 204

1. Language Identification - V. Ravikumar (Demo)
2. Speech Recognition Demo - KNRK Raju (Demo)
3. Residual Neural Networks for Speech Recognition - Hari Krishna Vydana (Poster)

Lab for Spatial Informatics (LSI)

First Floor - Room Number 201

1. Modeling LULC dynamics and its impact on socio-economics and climatic changes over last decade (2005-2015) in Krishna river basin region of India. – Yeshu Sharma, Dr. K.S.Rajan
2. Visualisation of forest transition through Historical growth analysis. – Bharath Setturu, Dr.K.S.Rajan
3. Water contamination dynamics in large water bodies .- K. Tarun Teja, Dr.K.S.Rajan
4. Using No-sql databases in Spatial Context. - Sarthak Agarwal, Dr.K.S.Rajan
5. Land Use Modelling of Barak Valley – Jyoti Misra, Dr.K.S.Rajan
6. MAARG: Development of a Smart-City Road Monitoring System – Bhavana Gannu, Dr.K.S.Rajan
7. A Graph Generalization Approach for Fast and Efficient Path Computation on Road Networks – Rohith Reddy, Dr.K.S.Rajan
8. A semantic model to define Indoor Space in context of Emergency Evacuation – Nishith, Dr.K.S.Rajan
9. Validation of Kriging of Temperature Profile during volcanic eruptions – Malini Krishnan, Dr.K.S.Rajan
10. LSI-STAT – Neha Pande, Dr.K.S.Rajan
11. Generating Spatial Information Model from 2-D CAD drawings to aid Evacuation Modeling for Disaster Management – Srishti Srivastava , Dr.K.S.Rajan
12. Semi-Automatic Data Generation from 2-D CAD drawings for Indoor GIS. – Srishti Srivastava, Dr.K.S.Rajan
13. Automated Individual Tree Identification & Description using Terrestrial LiDAR – R.Suraj Reddy, Dr.K.S.Rajan
14. Assessing the impact of land use and land cover changes on the remnant patches of Kondapalli reserve forest of the Eastern Ghats, Andhra Pradesh, India – N.N.Salghuna, Dr. P.Rama Chandra Prasad
15. Mapping Mangrove Species Using Hyperspectral Data: A Case Study of Pichavaram Mangrove Ecosystem, Tamil Nadu - N.N.Salghuna, Dr. P.Rama Chandra Prasad.
16. Spectral characterization of Artocarpus heterophyllus in relation to their biochemical properties - A case study from Attappadi forest, Kerala - N.N.Salghuna, Dr. P.Rama Chandra Prasad.
17. Statistical Noise Removal (SNR) – A Novel Approach Of Removing Noise From The Full Range Field Collected Spectra - N.N.Salghuna, Dr. P.Rama Chandra Prasad.
18. Development of spectral stress indices tool for the detection of Rhizophora apiculata, a mangrove species of south Andaman, India - N.N.Salghuna, Dr. P.Rama Chandra Prasad.
19. Spatio - temporal variation in spectral pattern Vis-a - Vis biochemical parameters of selected species of Araku forest, Eastern Ghats - N.N.Salghuna, Dr. P.Rama Chandra Prasad.
20. Preliminary analysis of LULC variation of Vijayawada over time – M.Vani, Dr.P.Rama Chandra Prasad
21. Filling data gaps in Landsat 7 Images using Neighborhood similar pixel threshold based Local Binary Pattern approach – M.Srinivas, Dr. P.Rama Chandra Prasad.
22. Geospatial modelling approach to develop Forest Fire Danger Index using satellite datasets – K.V.Suresh Babu, Dr. P.Rama Chandra Prasad
23. Prediction of vegetation dynamics using NDVI time series data and LSTM – D. Sushma Reddy, Dr. P.Rama Chandra Prasad
24. Estimating the regional drought index considering climate variations in Krishna river basin using IMD station data – Sireesha Galla, Dr. Shaik Rehana
25. Assessment of River water temperature using Air temperature and stream flow – Aadhi Naresh, Dr.Shaik Rehana.
26. Development of Building Segmentation Approaches from a given LIDAR scene – Gaurav Parida, Dr.K.S.Rajan

Center for Computational Natural Sciences and Bioinformatics (CCNSB)

Second Floor - Room Number 301

1. Integrative network analysis of young, ageing and Alzheimer's disease - Vinay Lanke, S.T.R. Moolamalla, P.K. Vinod
2. Modeling mammalian cell cycle transitions - Nishtha Pandey, Dr. Vinod P. K.
3. StRiPs: Database of Structural Repeats in Proteins - Broto Chakrabarty, Nita Parekh
4. iCopyDAV: Integrated Patform for Copy Number Variations – Detection, Annotation and Visualization :- Prashanthi Dharanipragada, Nita Parekh
5. High-throughput data analysis in Plants - Sanchari Sircar
6. DNA Mismatch Recognition Mechanism by RAD4 - Kartheek.P, Marimuthu Krishnan
7. A Molecular Dynamic study of pressure effects on Protein - Hemanth Vemuri
8. Conformational Analysis of Proteins - Madhur Aggarwal
9. Role of cations in the adsorption of supercritical co2 at smectite-mineral water interfacesl - Mohan Maruthi, M.Krishnan
10. Molecular features of ligand recognition in Tetrahydrofolate riboswitch - Preethi S.P, Abhijit Mitra
11. Novel splice variation based approach towards mining putative riboSNitches in alternatively spliced genes - Ramya G and Abhijit Mitra
12. An insight into structural consequnces of incremental multiformacetal subsitutions on the DNA:RNA hybrids - Tanashree Jaganade
13. Automatic calibration of molecular force fields using machine learning - Punyashlok Pattnaik
14. Stacking In Nucleobases - Sagar Gaur, Deva Priyakumar
15. Understanding the structural stability, dynamics and functions of proteins using biomolecular simulations - Sheena Singh, Ankita Srivastava, Marimuthu Krishnan

Cetner for Security Theory and Algorithms (CSTAR)

Second Floor - Room Number 302

1. Aggregation based algebraic multi-grid - Pawan Kumar
2. GPU Scheduler - Shaleen Garg

Center for VLSI and Embedded Systems Technology (CVEST)

Second Floor - Room Number 302

Demos

1. Multi channel Incoherent Laser Beam Combination for Directed Energy Systems - Suman Basak, Dr. Syed Azeemuddin
2. Affordable water flow monitoring device - Deepak Awasthi, Dr. Syed Azeemuddin

Posters

3. Low Power Analog Integrated circuit for Medical & IoT application - Arpan Jain, Dr. Zia Abbas.
4. Performance Optimization in low power VLSI circuits - Prateek Gupta, Dr. Zia Abbas.
5. Voltage tunable dielectric resonator oscillator - Sai Charan Karnati, Dr. Syed Azeemuddin
6. Modelling a Hybrid Car with a novel Power Transfer System - Seshadri Reddy, Dr. Syed Azeemuddin
7. Efficient hardware implementation of FFT - Harsha Keerthan, Dr. Syed Azeemuddin, Dr. Qadeer Haqbei, Dr. Zafar Ali Khan
8. RF Bio-sensing for detection of bio molecules - Annesha Mazumder, Dr. Syed Azeemuddin, Dr. Tapan Kr. Sau, Dr. Prabhakar Bhimalapuram

Signal Processing and Communication Research Center (SPCRC)

Second Floor - Room Number 302

1. Spectrum Sensing for FBMC - Upender and Dr. Sachin
2. Cooperative Sensing with Heterogeneous Sensors - Akhil, Prakash, and Dr. Sachin
3. Room occupancy detection using multivariate sensors - Adarsh, Vivek, and Dr. Sachin
4. Deletion Errors in DNA Storage - Charan, Aishwarya and Dr. Prasad Krishnan
5. Trasceiver Design for Relay assisted Full-Duplex wireless communications - Nachiket, Dr. Ubaidulla
6. Leakage based precoder design for mmWave system - Deepa, Dr. Ubaidulla
7. Maximally Recovable codes for Product Topologies - Shivakrishna and Dr. Lalitha vadlamani
8. Low complexity spectrum sensing using Beamforming - M. Madhuri Latha,Prakash and Dr. Sachin
9. Self Organizing Software Defned Edge Controller in IoT Infrastructure - Jitender, Rhishi, Dr. Rama Murthy
10. Combinatorics, Communications, Coding Theory - Prasad Krishnan

Earthquake Engineering Research Center (EERC)

First Floor - Room Number 203

Posters

1. SSI Analysis of Framed Structures Supported on Pile Foundations: with and without Interface Elements - Kalvala Sai Vineela
2. Absorbing Boundary Conditions for Visco-Elastic Wave Propagation in Unbounded Domains - Ravishankar Badary, B. Akshay Kumar
3. Modeling of Combined Behavior of Brick Masonry Infill and Reinforced Concrete Frame - G Niketh Reddy
4. Rationalizing Response Reduction Factor (R) for Better Performance of Reinforced Concrete Framed Buildings - Haritha Bendapudi
5. Strengthening and Repair of 5-Storey RCDuctile Detailed Structure with Open Ground Storey - Swapnil Nayan
6. Affect of Size of Wall Openings in Upper Storeys on Earthquake Response of RC Structures - Nagella Manohar
7. Expended Energy-Based Damage Assessment of RC Bare Frame Using Nonlinear Pushover Analysis - Usama Nayeem
8. Numerical Study on Concrete Gravity Dam Subjected to Fault Motion - Siripalli Sravani
9. Determining Vulnerability Score Modifiers for Parameters that Affect the Rapid Visual Survey (RVS) Score: A Numerical Study - Indrale Mahesh Shivaji
10. Earthquake Behavior of Reinforced Concrete Framed Buildings on Hill Slopes - Rahul Vishwakarma
11. Seismic Safety of Joints in Precast Buildings: A State-of-the-Art Literature Review - Billigraham M Kurian
12. Micro-Tremor Response of Buildings in High Seismic Area: A Case Study on RC Framed Buildings in Chandigarh, India - Pilli Gowtham
13. Evaluation of Empirical Expression for Fundamental Period of RC Moment Resisting Frames and RC Shear Wall Buildings in India - Pathan Khadeer Ahmed Khan
14. Earthquake Resistant Design Guidelines for Structural Members - Priyanka Mishra
15. Numerical Study for Finding Fundamental Period of Buildings Resting on Hill Slopes? - Apaar Agrawal
16. Understanding Secondary Damages due to Non-Structural Elements in High-Rise Buildings - Ramya G.
17. Web Application for Linear Analysis and Monitoring of Rectangular Glass Panels Subjected to Wind and Seismic Loads - Ayan Srivastav
18. Understanding The Behaviour of Flat Slab by Linear and Nonlinear Finite Element Analysis - Saurabh A.
19. Nonlinear Soil Structure Interaction Analysis of Rigid Tower Subjected to Earthquake Ground Motion - Anshu Singh
20. Performance Assessment of Buildings Designed with and without SSI - E. Keerthana
21. Software Tool for Earthquake Safety Assessment of Buildings - D Vijaya Sai Keerthana
22. Web tool for Accessing Post-Disaster Queries Based on Geolocations - Jubin Kumar Soni
23. Upholding the Earthquake Resistant Design Philosophy through Design - Sunitha Palissery

Earthquake Engineering Research Center (EERC) (Contd...)

First Floor - Room Number 203

24. Web Application For Generation Of Shake Map: A Case Study On Vijayawada City, India - Anchal Pandey
25. Praposal of Retrofittings Options for Low-rise RC Buildings - Jagdish Chowdhari
26. Earthquake Disaster Risk Index: Monitoring Disaster Mitigation Efforts in India - Aniket B.
27. Development of Risk Index Maps of Lucknow and Dehradun Areas in India - Sandeep
28. Structural HealthMonitoring of Building using IITK Sensor due to Seismic Disturbances in Chandigarh, India - Niharika Talayan
29. Risk Assessment of Existing Building in Nanded City - Pulkit Velani
30. Seismic Analysis and Design Recommendations for Uran-Chakan-Shikrapur LPG Pipeline - Vyas P.
31. Vulnerability Assessment of Heritage Structure (Ramappa Temple) due to Blast Induced Ground Motions - Naresh C.
32. Assessment of Vulnerability of Installation near Gujarat Coast Vis-?-vis Seismic Disturbances - P. Neelima
33. Hazard, Vulnerability & Risk Assessment of Himachal Pradesh - Abhijeet

Models

34. Strong Column-Weak Beam, RC Detailing - Gollu Venkata Rishi
35. Fault with and without Topography - Buruguraja Varun
36. Base Isolation - B Kanaka Durga Sri Surya Harika
37. Soft StoreyEffect-Brick Infill-Braced Frame - Sarthak Shrivastava, Quazi Asrar
38. Building Vibration Sensors - Abhay Gupta
39. Indian Housing - Grandisila Lokesh, Gurram Mounika
40. Mola Structural Tool Kit - Krishna Babu
41. Detailing - Madhur, Rounak, Harshwardhan, Santosh, Sarath
42. Period of Vibration - B Adithya
43. Seismograph - Aishwarya Gupta
44. Concept of Resonance - Vinayak Mishra
45. Evaluation of Liquefaction Potential (GUI) - Tarnpreet, Aswatha Sai, Syed Yousuf
46. Portable Sensor Raju S
47. Standalone Application for Seismic Analysis of Symmetrical Buildings (GUI) - Suresh, Santosh, Jagdeesh, Raghuveer

Center for Exact Humanities (CEH)

Second Floor - Room Number 304

1. Scaling Classroom IT Skill Tutoring - Meghna Joshi, Tanmay Joshi and Nimmi Rangaswamy
2. Socio-Technical System Of Quality Testing in India - Meghna Joshi, Tanmay Joshi and Nimmi Rangaswamy
3. Reasoning in Natural Language - Akhil Batra and Prof. Navjyoti Singh
4. Poetry Analyzer - Amitha G and Prof. Navjyoti Singh
5. Analysis of Indian Parliamentary debates - Sakala Venkata Krishna Rohit and Prof. Navjyoti Singh
6. Analysis of Hate and Harmful Speech Online - Sanjana Sharma and Prof. Navjyoti Singh
7. OntoSenseNet: A Verb-Centric Ontological Resource for Regional Languages - Sreekavitha Parupalli and Prof. Navjyoti Singh
8. Analysis of actor interactions in International Relations - VenuMadhav Kattagoni and Prof. Navjyoti Singh
9. Fibre,Fabricator and Fabric A Study of Time,Space and Form in Arts - Banatanwi Dasmahapatra
10. Generative Ontology of Vaisesika - Rajesh Tavva and Prof. Navjyoti Singh
11. Styles and Icons: Formal Study of Indian Traditional Paintings - Sunil Lohar and Prof. Navjyoti Singh
12. Aspects of Tandava: a formal study - S. Jayachandran, Prof. Navjyoti Singh
13. Improvised sequence Generation in North indian Classical Music - Radha Manisha and TK Saroja
14. Sarcasm Detection – Taradheesh Bali and Prof. Navjyoti Singh
15. A legal MediaWiki - Arjit Srivastava and Prof. Navjyoti Singh
16. Methods for collaboration in curation platforms - Priyanka Suresh and Prof. Navjyoti Singh
17. Folk forms of music - Saroja T. K and Prof. Navjyoti
18. Limories: Capturing the sense of past of localities - Lakshmi Valsalakumari and Prof. Navjyoti
19. Formal Ontology of painting: Spandana of events on 2D - Pooja Kaul
20. Ontology and grammar of dance - Sonal Nimbkar

Cognitive Science Laboratory (COGSCI)

Second Floor - Room Number 304

Demos

1. 360-degree display designs for building spatial knowledge in military reconnaissance environment - Palash Vijay, Ambika Shahu and Priyanka Srivastava

Posters

2. 360-degree Spatial Knowledge: A Comparative Assessment of VR (FOVE) and Desktop 360-Degree IVD authored by Palash Vijay, Priyanka Srivastava and Niket Agarwal.
3. 360° vision interfaces while performing spatial task under timed condition authored by Anirudh Ravipati, Ambika Shahu and Priyanka Srivastava.
4. Mining Musicality using Multimodal Fusion - Dipankar Niranjan, Vinoo Alluri
5. Reliability of emerging functional networks during continuous music listening - Arihant Jain, Vinoo Alluri
6. Linking Music Usage and Depressive Tendencies - Sarath Subramanian, Anant Mittal, Vinoo Alluri
7. Dynamic Processing of Emotion during continuous music listening - Rohan Gandhi, Vinoo Alluri
8. A dual process account for sequentual decision making anf skill learning - Tejas Savalia, Bapi Raju
9. Speed of Presentation and its effect on Sequence Learning Rate - Sneha Kummetha, Bapi Raju

Cognitive Science Laboratory (COGSCI)

Ground Floor - Kohli Research Block Exhibition Hall (KRBEH)

Industry Oriented Demos

1. Navigation in a Virtual World - Palash Vijay and Priyanka Srivastava
2. VR feel project - Priyanka Srivastava and Palash Vijay

Center for Innovation & Entrepreneurship (CIE)

First Floor - Room Number 202

1. IoT edge analytics gateway - Maruthi (Videcentum)
2. Watt AI energy intelligence - Ravi Tekumudi, Anand (Indriyn)
3. Autonomous Industrial Automation using Deep Reinforcement Learning - Sidharta Varma, Chaitanya S, Sriraj M (Ntwist)
4. Drone and their applications - Pradeep (Thanos)
5. Omni-channel Messaging Stack for Chatbots - Tarun Jain, Sunil Mohan, Pushpendra, Rajendar (Autochat)
6. Cricket and Dragon games - Ravi (Golive)

Software Engineering Research Center (SERC) and Virtual Labs

First Floor - Room Number 202

1. Development of Virtual Labs - Priya Raman, Ravi Kiran
2. Renarration - Sai Gollapudi
3. Domain specific search engine - Lalit Mohan
4. Mobile usability testing - Sai Anirudh
5. Development of Virtual Labs - Priya Raman
6. Virtual Labs Demos - Priya Raman, Ravi Kiran (Demo)
7. Renarration - Sai Gollapudi, Sadhana, Soumya (Demo)
8. Search engine – Lalit (Demo)
9. Usability - Sai Anirudh (Demo)

Computer Systems Group (CSG)

First Floor - Room Number 202

1. A DSL Compiler for Accelerating Image Processing Pipelines on FPGAs - Nitin Chugh, Ziaul Choudhury, Vinamra Benara, Prof. Suresh Purini, Prof. Uday Bondhugula (IISc) (Both Poster and Demo)

Machine Learning (ML) Laboratory

First Floor - Room Number 202

1. Sparse and Robust Reject Option Classifier - Kulin Shah, Naresh Manwani
2. Machine Learning meets Game Theory - Manisha Padala, Kumar Abhishek, Sujit Prakash Gujar
3. Economics of Privacy, Blockchain and Trust - Moin Hussain Moti, Sankarshan Damle, Sujit Prakash Gujar
4. fMRI Semantic Category Decoding using Linguistic Encoding of Word2Vec - Subba Reddy Oota, Naresh Manwani, Bapi Raju S
5. Improving Surveillance using Cooperative Target Observation - Rashi Aswani, Sai Krishna Munnangi, Praveen Paruchuri
6. Planning and Learning For Decentralized MDPs With Event Driven Rewards - Tarun Gupta, Akshat Kumar, Praveen Paruchuri