## DAY 2, Dec 03

### Session 1A. Development of Technologies to Support Education -1. 10.45 - 11.50am (Lecture Hall 21)
- **A Pilot Study: Introducing HDL Lab Course for Effective Learning of Digital Design**
  - Arati Phadke and Sangeeta Kulkarni
- **A pilot study: The effect of using Virtual laboratory on students’ conceptual understanding in Mobile Communications**
  - Swati Mahajan, Sangeeta Kulkarni and Anita Diwakar
- **Active learning explored in Open elective course: Internet of Things (IoT)**
  - Meenaxi Raikar, Padmashri Desai and Jayalakshmi Naragund

### Session 1B. Pedagogical Strategies and Interventions for Technology-Enhanced Learning -1. 10.45am - 11.50am (Lecture Hall 22)
- **Geometry via Gestures: Learning 3D geometry using gestures**
  - Soumya Narayana, Prajish Prasad, Lakshmi T. G. and Anusha Prakash
- **Kinect based real time gesture recognition tool for air marshalls and traffic policemen**
  - Anusha Prakash, Swathi R., Stuti Kumar, Ashwin T. S. and G. Ram Mohana Reddy

### Session 2A. Development of Technologies to Support Education -2. 11.55am - 1.00pm (Lecture Hall 21)
- **An Experience Report on Teaching Compiler Design Concepts using Case-Based and Project-Based Learning Approaches**
  - Divya Kundra and Ashish Sureka
- **Improving classroom discussions of programming assignments via language choice**
  - Viraj Kumar and Ullas Aparanji
- **Using POGIL to Teach and Learn Design Patterns - A Constructionist Based Incremental, Collaborative Approach**
  - Priya Lotlikar and Ramrao Wagh
- **Visual Specifications for Web-application Programming Assignments**
  - Viraj Kumar, Vidhu Rojit, Sindhu R. Pai and Shruthi Navigal

### Session 2B. Pedagogical Strategies and Interventions for Technology-Enhanced Learning -2. 11.55am - 1.00pm (Lecture Hall 22)
- **Teaching and Learning of Divergent & Convergent Thinking Skills using DCT**
  - Rumana R. Pathan, Ulfia H. Khwaja, Deepthi Reddy and Venkatesh V. Kamat
- **Attendance monitoring in classroom using smartphone & Wi-Fi fingerprinting**
  - S Anand, Kamal Bijlani, Sheeja Suresh and P Praphul
- **Smartphone Based Virtual Reality Systems in Classroom Teaching - a study on the effects of learning outcome**
  - Suman Deb and Ananda Bibek Ray

### Session 3A. Game-based Learning -1. 4.30 - 5.35pm (Lecture Hall 21)
- **Designing a Game-based Learning Environment to Foster Geometric Thinking**
  - Viraj Kumar, Suchi Srinivas, Saurabh Khanna and Jeenath Rahaman
- **Collaborative Game Based Learning of Post-Disaster Management**
  - Sooraj K. Babu, M. L. McLain, Kamal Bijlani, R.
- **Online Educational Games-Based Learning in Disaster Management Education:**
  - Thangagiri Baskaran and Naganathan Rajalingam

### Session 3B. Learning at Scale -1. 4.30 - 5.35pm. (Lecture Hall 22)
- **Assessing the efficacy of a large hands-on silent LATEX workshop**
  - Sohinee Ganguly, Kiran Kumar Eranki and Kannan Mougdalya
- **Decoding Engagement in MOOCs: An Indian Learner Perspective**
  - Anitha Kaveri, Deepak Gupta, Sangeetha Gunasekar and Maheshwar Pratap
- **Automatic Identification of Subject Domain in Engineering Examination Questions**
  - Viraj Kumar, Vandana Rao, Vaishnavi S and Vaishnavi Kannan

### Session 4A. Game-based Learning -2. 5.40 - 6.40pm (Lecture Hall 21)
- **An innovative educational environment based on virtual reality and gamification for learning search algorithms**
  - Foteini Grivokostopoulou, Isidoros Perikos and Ioannis Hatzilygeroudis
- **A Novel Approach for Training Crane Operators**
  - Amal K. George, M. L. McLain, Kamal Bijlani, R. Jayakrishnan and Rao R. Bhavani
- **Evidence Centred Approach to Measuring Learning outcomes amongst Management**
  - Sandeep Rambhatla and Deepak Gupta

### Session 4B. Learning at Scale -2. 5.40 - 6.40pm. (Lecture Hall 22)
- **Determinants of Acceptance of Massive Open Online Courses**
  - Shrikant Mulik, Nilay Yajnik and Manish Godse
- **Estimating attention and understanding level of students in a large classroom environment**
  - Md Shakeel Iqbal Saikia, Pankaj Kumar, Samit Bhattacharya and Venkatesh Tamarapalli
- **Peer Assessment of Oral Presentation: An investigative study of using Clickers in First-year Civil Engineering Class of a reputed Engineering Institution**
  - Tamil Selvi and G. Chandramohan
- **Role of Virtual Biology laboratories in Online and Remote learning**
  - Padmavati Manchikanti, B. Ramesh Kumar and Vinay Kumar Singh
A Score Recommendation System Towards Automating Assessment in Professional Courses
Anirudh Kashi, Sachin Shastri, Akshay R. Deshpande, Jawahar Doreswamy and Gowri Srinivasa

Are we asking the right questions to grade our students in a knowledge-state space analysis?
Rania Aboalela and Javed Khan

Automatic Generation of Question Paper from User Entered Specifications using a Semantically Tagged Question Repository
Gauri Nalawade and Rekha Ramesh

Designing Item Banks in Alignment with Course Outcomes for Engineering Courses
Shilpi Banerjee, N. J. Rao and Chandrashekar Ramanathan

Development of a Reading Skill Test to Measure Basic Language Skills
Akira Fujita, Naoya Todo, Shingo Sugawara, Kyo Kageura and Noriko H. Arai

Teaching Computer Programming using MOOCs in multiple campuses: Challenges and Solutions
Tathagata Ray, Aruna Malapati and Bhanu Murthy

Geneticus investigatio: An agent-based modeling system for teaching-learning Hypothetico-Deductive Reasoning in Mendelian genetics
Anurag Deep, Sahana Murthy and Paike Jayadeva Bhat

Architecture for User Experience Tracking and Analytics in National Digital Library (NDL)
Poonam Anthony, Kushagra Aggarwal and Plaban Kumar Bhowmick

Sequel Based Learning Environment for Development of Multiple Representations (MR) skills
Archana Deshpande and Madhuri Mavinkurve

Stereoscopic Three-Dimensional Visualization for Immersive and Intuitive Anatomy Learning
Kup-Sze Choi, Shu-Ting Chan, Colman Ho-Man Leung and Yim-Pan Chui

Dynamic Learning Path Prediction – A Learning Analytics Solution
Kannan Govindarajan, Vivekanandan Suresh Kumar and Kinshuk

Learning Analytics to Identify Students at-risk in MOOCs
M. Srilekshmi, S. Sindhumol, Shiffon Chatterjee and Kamal Bijlani

Ad hoc vs. Organised Orchestration: A Comparative Analysis of Technology-driven Orchestration Approaches
Lighton Phiri, Christoph Meinel and Hussein Suleman

Auto-Tagging for Massive Online Selection Tests: Machine Learning to the Rescue
Saraswathi Krithivasan, Shubham Gupta, Saurav Shandilya, Krishna Lala and Kavi Arya

Tracing Phonological Processing Skill in Early Childhood Through iSAT
Man Ching Law, Rwitajit Majumdar and Khe Foon Hew

An Experience Report on Teaching Programming and Computational Thinking to Elementary Level Children using Lego Robotics Education Kit
Vidushi Chaudhary, Vishnu Agrawal, Pragya Sureka and Ashish Sureka

Developing Key Performance Indicators framework for evaluating performance of engineering faculty
Sangeeta Joshi, Shrabani Bhattacharjee, Vishwas Deshpande and Milind Tadwalkar

Experience Report: Guiding Faculty & Students to Participate in Humanitarian FOSS Communities
Clifton Kussmaul

Stringing Subtitles in Sign Language
Tejas Dharamsi, Rituparna Jawahar, Kavi Mahesh and Gowri Srinivasa

Availability, Access and Utilization of E-Resources among Pre-Service Teacher Trainees by Distance
Sunday O Olaniran, M A N Duma, D R Nzima