

**IHCI 2016**  
**8th International Conference on Intelligent Human Computer Interaction**  
**Pilani, Rajasthan, India**  
*December 12-13, 2016*

Organised by CSIR-CEERI Pilani, BITS Pilani and IIIT-Allahabad

**Programme Schedule**

**Day 1 : December 12, 2016**

(All technical events at BITS Pilani will be held at Lecture Theatre Complex, **Room no. 5103**. Events to be held at CSIR-CEERI, Pilani are mentioned in the schedule separately)

1. 9:15 – 10:15 AM : Inauguration, BITS

Introducing the theme of the Conference by Prof. Anupam Basu  
Address by the Director, CSIR-CEERI, Prof. Santanu Chaudhary  
Address by the Vice Chancellor, Prof. Souvik Bhattacharyya  
Address by the Chief Guest, Dr. Manas Mandal  
Vote of Thanks by the co-convener, Dr. Yashvardhan Sharma

2. 10:15 – 10:45 AM : Tea, BITS
3. 10:45 - 11:45 AM : **Plenary Talk I**, BITS

**Session Chair** : Prof. Santanu Chaudhury, Director, CSIR-CEERI Pilani

**Speaker**: Prof. Thomas Ertl, Head of the Visualization Research Center, University of Stuttgart, Germany

**Title of the talk**: *Interactive Visualization – A Key Discipline for Big Data Analysis*

4. 11:45 AM – 1:15 PM : **Technical Session I ( Intelligent Interfaces)**, BITS  
**Session Chair**: Prof. Sukhendu Das, Dept. of CSE, IIT Madras, Chennai

Session I		
S.No	Authors	Paper Title
1	<b>Sharath Chandra Akkaladevi*</b> , Matthias Plasch, Christian Eitzinger, Bernhard Rinner	Towards Learning to Handle Deviations using User Preferences in a Human Robot Collaboration Scenario
2	<b>Laxmidhar Behera*</b> , Radhe Shyam Sharma, Venkat Subramaniam, Atulya Shree	Position Based Visual Control of the Hovering Quadcopter
3	<b>Suryakanta Panda*</b> , Samrat Mondal	SG-PASS: A Safe Graphical Password Scheme to Resist Shoulder Surfing and Spyware Attack
4	<b>Rupam Bhattacharyya*</b> , Zubin Bhuyan, Shyamanta Hazarika	O-PrO: An Ontology for Object Affordance Reasoning
5	<b>Prathyusha Sane*</b> , Suja Palaniswami, Shikha Tripathi, Louis Rapet	Emotion Recognition from Facial Expressions of 4D Videos using Curves and Surface Normals

5. 1:30 – 2:30 PM : Lunch Break (Venue: Institute Cafeteria), BITS

6. 2:45 - 3:45 PM : **Plenary talk II**, BITS

**Session Chair** : Prof. P.C. Pandey, Dept. of Electrical Engineering, IIT Bombay

**Speaker**: Dr. Manas Mandal, Ex Director General, Life Sciences, DRDO

**Title of the Talk** : *Cognitive Sciences: Tomorrow's Perspective*

7. 3:45 – 4:00 PM : Tea, BITS

8. 4:30 – 7:00 PM : **Special Session : Evolving Landscape of Intelligent Interfaces**, CSIR-CEERI, Old Auditorium

**Participants :**

1. Dr. Arpan Pal, TCS Research & Innovation
2. Dr. Amit Nanavati, IBM Research
3. Prof. Anupam Basu, CSE, IIT Kharagpur
4. Prof. Anirudha Joshi, Industrial Design Center, IIT Bombay
5. Dr. Tapan Gandhi, IIT Delhi
6. Sohan Maheshwar, Gupshup.com

**Session Coordinator** : Dr. Lipika Dey, Research & Innovation

9. 7:15 – 8:30 PM : Cultural Program by **ALANKAR** Group, Jaipur - CSIR-CEERI, New Auditorium

10. 8:30 – 9:30 PM : Dinner, CSIR-CEERI, CEERI Lawn

**Day 2: December 13, 2016**

(All technical events at BITS Pilani will be held at Lecture Theatre Complex, **Room no. 5103.**)

1. 09:15 – 10:15 AM : **Plenary talk III**, BITS

**Session Chair** : Prof. Anupam Basu, Dept. of CSE, IIT Kharagpur

**Speaker**: Prof. Sudeep Sarkar, Associate Vice-President for Research & Innovation , University of Southern Florida, USA

**Title of the talk**: *Video Event Understanding with Pattern Theory*

2. 10:15-10:45 AM : Tea, BITS

3. 10:45 AM – 12:15 PM : **Technical Session II (HCI Applications and Technology)**, BITS

**Session Chair**: Prof. Chandrashekhar, Sr. Professor Emeritus, Dept. of EEE, BITS Pilani

Session II		
S.No	Authors	Paper Title
1	Lalitha K S*, Sukhendu Das, Arun Menon, Koshy Varghese	Graph-based Clustering for Apictorial Jigsaw Puzzles of Hand Shredded Content-less Pages
2	Jayshree Pansare*, Maya Ingle	2D Hand Gesture for Numeric Devnagari Sign Language Analyzer based on Two Cameras
3	Arpan Sen*, Debottam Kundu, Debleena Sarkar, Jaya Sil	Study of Engineered Features and Learning Features in Machine Learning - A Case Study in Document Classification
4	Saketh Sharma, Nitya Tiwari, Prem C Pandey*	Implementation of a Digital Hearing Aid with User-Settable Frequency Response and Sliding-Band

		Dynamic Range Compression as a Smartphone Ap
5	<b>Ankita Singh</b> , Richa Tibrewal, Chandrima Bhattacharya, Malay Bhattacharyya*	Hands up! To Assess Your Sustained Fitness
6	<b>Sonia Sharma*</b> , Manish Singh, Rashmi Duttabaruah , Shivashankar Nair	A Voting-Based Sensor Fusion Approach for Human Presence Detection

4. 12:15 - 1:30 PM : **Technical Session III (Brain Machine Interaction)**, BITS

**Session Chair:** Prof. U S Tiwary, Professor of the Dept. of Information Technology, IIT Allahabad

Session III		
S.No	Authors	Paper Title
1	<b>Shubhangi Sharma*</b> , US Tiwary	Classification of Indian Classical Dance
2	<b>Sreeja SR*</b> , Vaidic Joshi, Shabnam Samima, Anushri Saha, Joytirmoy Rabha, Baljeet Singh cheema, Debasis Samanta, Pabitra Mitra	BCI Augmented Text Entry Mechanism for People with Special Needs
3	Sneha Saharawat*, Nandini Saini, <b>Abhishek Mahata</b> , Ritu Tiwari	Intelligent Movie Recommender System using Machine Learning
4	<b>Asok Bandyopadhyay*</b> , Abhisek Hazra	A Comparative Study of Classifier Performance on Spatial and Temporal Features of Handwritten Behavioural Data
5	<b>Upasana Talukdar*</b> , Shyamanta Hazarika	Estimation of Mental Fatigue During EEG- based Motor Imagery.

5. 1:30– 2:30 PM : Lunch, BITS (Venue: Institute Cafeteria)

6. 3:00 - 4:30 PM : **Technical Session IV (Interface & Systems)**, BITS

**Session Chair:** Prof. TSB Sudarshan, Dept. of CSE, Amrita University

Session IV		
S.No	Authors	Paper Title
1	Pankaj Doke, <b>Sylvan Lobo*</b> , Anirudha Joshi, Nupur Aggarwal, Vivek Josheph, Varun Mevada , Abhijith KR	A User Study about Security Practices of Less- Literate Smartphone Users
2	Gaurav Kumawat*, <b>Jayashri Vajpayai</b>	Fuzzy Sliding Mode Controller for Dynamic Nonlinear Systems
3	<b>Kalpna Sagar*</b> , Anju Saha	Enhancing Usability Inspection through Data- Mining Techniques: AnAutomated Approach for Detecting Usability Problem Patterns of Academic Websites
4	<b>Alka Singhal*</b> , Rajni Jindal	Personalized E-library: A Recommender system based on Learner's Feedback Model
5	<b>Meera Khanna*</b> , Mounmita	Behavioral Study of Defocus Cue Preserving Image

	Bhowmick, Santanu Chaudhury, Brejesh Lall, Amrita Basu	Compression Algorithm for Depth Perception
6	<b>Djoko Budiyanto Setyohadi*</b> , Luciana Triani Dewi, bening Parwitasukci	M-Learning Interface Design Based On Emotional Aspect Analysis

7. 4:30 – 4:45 PM : Tea, BITS

8. 4:45 – 5:30 PM :

Initial remarks by the convener

Summary of the conference proceedings by the Program Chair

**Panel Discussion:** *Human - Machine Interaction in Education & Research: Present Status and Future Scope*

Panelist:

1. Prof. Anupam Basu, Dept. of CSE, IIT Kharagpur
2. Prof. Santanu Chaudhury, Director, CSIR-CEERI Pilani
3. Dr. Manas Mandal, Ex DGLS, DRDO
4. Prof. Sudeep Sarkar, Univ. of Southern Florida, USA

**Session Coordinator:** Prof. U.S. Tiwary, Dept. of Information Technology, IIIT Allahabad

Valedictory Address by Prof. A.K. Sarkar, Director, BITS, Pilani-Pilani Campus

Distribution of Certificates by Prof. A.K. Sarkar

Vote of thanks by the Co-convener

Note: Each author presentation will be of 12 minutes and 3 minutes for Q & A session.