2016 International Conference on Advances in Human Machine Interaction (HMI 2016)

Bangalore, India
3-5 March 2016

IEEE Catalog Number: CFP16E44-POD
ISBN: 978-1-4673-8811-5

Copyright © 2016 by the Institute of Electrical and Electronic Engineers, Inc
All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number: CFP16E44-POD
ISBN (Print-On-Demand): 978-1-4673-8811-5
ISBN (Online): 978-1-4673-8810-8

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CMS 2016 Table of Contents

Opening Remarks

S. No.	Paper ID	Title	Authors	Page No.
1.	5	**Shiva Subhedar,** *Cognizant Technology Solution, Pune, India,* **Abhishek Jain**, *TATA Consultancy Services, Pune, India*	Reduction of servicing and maintenance time of car – a future need	1-6
2.	6	**Ankur S Mahajan,** *Dept. of Instrumentation Technology, Basaveshwar Engg College, Bagalkot, Karnataka, India.* **Rajashekhar Y Pattar,** *Dept. of Instrumentation Technology, Basaveshwar Engg College, Bagalkot, Karnataka, India.* **Rahul Khamitkar,** *Dept. of Instrumentation Technology, Basaveshwar Engg College, Bagalkot, Karnataka, India.* **Manjunath Akalawadi,** *Dept. of Instrumentation Technology, Basaveshwar Engg College, Bagalkot, Karnataka, India.*	Doctor's innovative clinic: An application of artificial intelligence and physiological sensors	7-10

		Krishnamurthy Bhat, *Dept. of Instrumentation Technology, Basaveshwar Engg College, Bagalkot, Karnataka, India.*		
3.	9	**Vibhore Bhatnagar,** *Dept. of Electronics & Telecommunication, NIT, Raipur-India* **Nikhil Yede,** *Dept. of Electronics & Telecommunication, NIT, Raipur-India* **Rahul Singh Keram,** *Dept. of Electronics & Telecommunication, NIT, Raipur-India* **R. K. Chaurasiya,** *Dept. of Electronics & Telecommunication, NIT, Raipur-India*	A Modified Approach to Ensemble of SVM for P300 based Brain-Computer Interface	12-15
4.	11	**CH. Pavan kumar,** *KITS, Warangal, Telangana, India* **Dr.K.Sivani,** *KITS, Warangal, Telangana, India*	A Tunnel field effect transistor is a substitute for ultra- low power applications	16-19
5.	12	**Naveen Kumar,** *Instrument Design & Development Centre, IIT Delhi* **Varun Maheshwari,** *Instrument Design & Development Centre, IIT Delhi*	A Comparative Study of User Experience in Online Social Media Branding Web Pages Using Eye Tracker	20-27

		Jyoti Kumar, *Instrument Design & Development Centre, IIT Delhi*		
6.	15	**G. Neelima,** *Assistant Professor, Computer Science & Engineering, GMRIT Engineering College, Rajam, Srikakulam(Dt), India* **Dr. Sireesha Rodda,** *Associate Professor, Computer Science & Engineering, GITAM Engineering College, Visakhapatnam,India*	Predicting user behavior through Sessions using the Web log mining	28-32
7.	18	**NAVEEN KUMAR**, *Instrument Design & Development Centre, IIT DELHI , NEW DELHI, INDIA* **JYOTI KUMAR,** *Instrument Design & Development Centre, IIT DELHI , NEW DELHI, INDIA*	Measurement of Efficiency of Auditory vs Visual Communication in HMI : A Cognitive Load Approach	33-39
8.	19	**K.Thiyagarajan,** *M.Tech Control&Automation, SELECT School, VIT University,Vellore-14* **Meenakshi.R**, *M.Tech Control&Automation, SELECT School, VIT University,Vellore-14* **Suganya.P**, *M.Tech Control&Automation, SELECT School, VIT University,Vellore-14*	Vision based Bottle classification and Automatic Bottle Filling System	40-42
9.	20	**Akshara Ravi,** *Dept. of CSE, College of Engg., Kallooppara, Pathanamthitta,Kerala,India*	A Method for Carving Fragmented Document and Image Files	43-47

		Raj Kumar T, *Dept. of CSE, College of Engg., Kallooppara, Pathanamthitta, Kerala, India* **Angelo Renju Mathew**, *Dept. of CSE,College of Engg., Kallooppara, Pathanamthitta, Kerala, India*		
10.	21	**Chinnaiah M C,** *Dept. of ECE, BVRIT Narsapur, Medak (Dist), Telangana, India* **Sanjay Dubey,** *Dept. of ECE, BVRIT Narsapur, Medak (Dist), Telangana, India* **Vineela L,** *Dept. of ECE, BVRIT Narsapur, Medak (Dist), Telangana, India* **Bindu K,** *Dept. of ECE, BVRIT Narsapur, Medak (Dist), Telangana, India* **Bharath Babu.E,** *Dept. of ECE, BVRIT Narsapur, Medak (Dist), Telangana, India*	An Unveiling path planning algorithm with minimal sensing using Embedded based robots	48-52
11.	25	**Ashwin Srinivas Badrinath,** *Dept. of Electronics and Instrumentation,* *R.V. College of Engineering, Bangalore, India* **Pathi Balaji Vinay,** *Dept. of Electronics and Instrumentation,* *R.V. College of Engineering, Bangalore, India*	Robotic Vision Based Mimicry of a Human Arm in 2-Dimensions	53-58

		Pradyoth Hegde, *Dept. of Electronics and Instrumentation,* *R.V. College of Engineering, Bangalore, India*		
12.	28	**D.Lakshmi,** *Research Scholar, Dept. of Computer Science and Engineering, Satyabama University, Chennai, Tamilnadu, India.* **Dr. R. Ponnusamy,** *Principal, Rajiv Gandhi College of Engineering, Sriperumpudur- 602 105, Tamilnadu, India.*	A Review Study of Human-Affection Knowledge on Usability Engineering	59-68
13.	32	**Gulbakshee Dharmale,** *Research Scholar, SGB Amravati University, Amravati, INDIA* **Dr.VilasThakare,** *SGB Amravati University, Amravati, INDIA* **Dr. Dipti D. Pati,** *MKSSS's CCOEW, Savitribaiphule, Pune University, Pune, INDIA*	Intelligent Hands Free Speech based SMS System on Android	69-73
14.	41	**Ajay U. Surwade,** *School of Computer Sciences, North Maharashtra University, Jalgaon, INDIA* **M.P.Patil,** *School of Computer Sciences, North Maharashtra University, Jalgaon, INDIA* **S.R. Kolhe,** *School of Computer Sciences, North Maharashtra University, Jalgaon, INDIA*	Effective and Adaptive Technological Solution to block Spam E-mails	74-82

15.	42	**Sreelakshmi Gopal,** *Computer Science & Engg., Ilahia College of Engineering and Technology, Muvattupuzha,Ernakulam,Kerala,India* **Rosna P Haroon,** *Computer Science & Engg., Ilahia College of Engineering and Technology, Muvattupuzha,Ernakulam,Kerala,India*	Malayalam Word Sense Disambiguation Using Naive Bayes Classifier	83-86
16.	46	**K.Srividya,** *Computer Science and Engineering, GMR Institute of Technology, Rajam, India* **A.Mary Sowjanya,** *Computer Science and Engineering, Andhra University, Visakapatnam, India*	BEHAVIORAL ANALYSIS OF INTERNET MESSAGING AND MALICIOUS ACTIVITY DETECTION	87-91
17.	51	**Nandakishor Sirdeshpande,** *Dept. of Electronics and Communication,* *Karnatak Law Society's Gogte Institute of Technology, Belgaum ,India* **Vishwanath Udupi,** *Dept. of Electronics and Communication,* *Karnatak Law Society's Gogte Institute of Technology, Belgaum ,India*	Radio Range Mapping in Wireless Sensor Networks	92-96
18.	53	**Faradina Haingonirina Andrianarimanana**, *Chongqing University, College of Public Administration, Chongqing, China* **Feno Heriniaina Rabevohitra,** *Chongqing University, College of Public Administration, Chongqing, China*	Mpianatra, a mobile phone application to improve the quality of college education	97-106

19.	54	**Shashi Sahu,** *M. Tech. Scholar Department of Electronics & Telecommunication Engineering, BIT, Durg (C.G), India* **Amar Kumar Dey,** *Assistant Professor , Department of Electronics & Telecommunication Engineering, BIT, Durg (C.G), India*	Automated Profile Cutting Machine using PLC	107-109
20.	55	**Cynthia Jayapal,** *Department of Information Technology, Kumaraguru College of Technology, Coimbatore 641 049, India* **Sujith Roy. S,** *Department of Information Technology, Kumaraguru College of Technology, Coimbatore 641 049, India*	ROAD TRAFFIC CONGESTION MANAGEMENT USING VANET	110-116
21.	56	**M.Trupthi**, *Research Scholar, Computer Science Department, JNTUH, Hyderabad, Telangana State, India.* **Suresh Pabboju**, *Information Technology Department, CBIT, Hyderabad, Telangana State, India.* **G.Narasimha**, *Computer sciencience Department, JNTUH, Jagital, Telangana State, India.*	Improved Feature Extraction and Classification - Sentiment Analysis	117-122
22.	58	**Sharvari Nadkarni,** *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India* **Parth Panchmatia**, *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India*	Semi Natural Language to Programming Language Interpreter	123-126

		Tejas Karwa, *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India* **Prof. Swapnali Kurhade**, *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India*		
23.	59	**Akshay Bhatia**, *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India* **Amit Bharadia,** *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India* **Kunal Sawant,** *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India* **Swapnali Kurhade,** *I.T. Department, Sardar Patel Institute of Technology, Mumbai, India*	Predictive and Corrective Text Input for desktop editor using n-grams and suffix trees	127-134
24.	60	**Saranya R.,** *Department of Electronics and Communication Engineering, Sona College of Technology (An Autonomous Institution), Salem - 636005, Tamil Nadu, INDIA* **Kashwan K. R.,** *Department of Electronics and Communication Engineering, Sona College of Technology (An Autonomous Institution), Salem - 636005, Tamil Nadu, INDIA*	Octapod Spider-Gait-Walking Robot Implementation Using Nano Processor	131-134

25.	61	**Sugamya katta,** *Research Scholar, JNTUH , Hyderabad, INDIA* **Suresh Pabboju,** *Dept. of IT, CBIT, Hyderabad, INDIA* **Vinaya Babu. A,** *Dept. of CSE, JNTUH, Hyderabad, INDIA*	A CBIR CLASSIFICATION USING SUPPORT VECTOR MACHINES	135-140
26.	62	**Sumeet Singh Bhatia,** *Yadawindra College of Engg., Guru Kashi Campus, Punjabi University,* *Talwandi Sabo, Bathinda, Punjab, India* **Jagtar Singh Sivia,** *Yadawindra College of Engg., Guru Kashi Campus, Punjabi University,* *Talwandi Sabo, Bathinda, Punjab, India*	A Novel Design of Wearable Fractal Antenna for Wideband Applications	141-143
27.	63	**Monica R. Mundada,** *Associate Professor, Dept.of CSE ,MSRIT, India* **Pranav B. Desai,** *M.Tech, PG Student, Dept.of CSE ,MSRIT, India* **Meeradevi,** *Assistant Professor, Dept.of CSE ,MSRIT, India*	A Survey of Congestion in Wireless Sensor Networks	144-148
28.	64	**Vilaskumar M.Patil,** *Department of E&CE, Appa Institute of Engg & Technology, Kalaburgi, Karnataka,India* **Siddarama R Patil,** *Department of E&CE, Appa College of Engineering, Kalaburgi, Karnataka,India*	A Survey on Spectrum Sensing algorithms for Cognitive Radio	149-153

29.	65	**A.Kannammal** *Department of Computer Applications, Coimbatore Institute of Technology* *Coimbatore 641 014, TamilNadu, INDIA* **S.Sujith Roy** *Department of Information Technology, Kumaraguru College of Technology* *Coimbatore 641 049, TamilNadu, INDIA*	Survey on Secure Routing in Mobile Ad-hoc Networks	154-160
30.	66	**S.SATHAPPAN,** *Research Scholar, Sathyabama University, Chennai, India* **Dr.D.C.TOMAR,** *Professor (IT), Jerusalem College of Engineering, Chennai - 600100, India*	A Method for handling 10clustering of uncertain data	161-165
31.	67	**Jitesh Kumar Khatri,** *Indian Institute of Technology, Delhi, India* **Naveen Kumar,** *Indian Institute of Technology, Delhi, India* **Jyoti Kumar,** *Indian Institute of Technology, Delhi, India*	Product form design suggestion using soft computing	166-170
32.	69	**Mohammad Shafivulla** *Associate Professor, Department of Electronics and Communication Engineering, KLU, Vijayawada-534007, A.P.India.* *Email : shafivullah@kluniversity.in*	SEMG based Human Computer Interface for Physically Challenged Patients	171-174