

2012 IEEE International Conference on Engineering Education: Innovative Practices and Future Trends

(AICERA 2012)

**Kottayam, India
19 – 21 July 2012**



**IEEE Catalog Number: CFP1234T-PRT
ISBN: 978-1-4673-2267-6**

Table of Contents

- AICERA 1 Trait and Skills for New Engineers in the Global Market Scenario *****
Monika Sahu and Murtaza Rizvi, NITTTR, Bhopal, India
- AICERA 2 New Paradigm of Engineering Education: A Conceptual Paper Based On Observation *****
Somesh B S and Purnima K, Bengaluru, India
- AICERA 3 A Novel Approach to Carrying Out Mini Project in Computer Science & Engineering *****
Padmashree Desai, G.H. Joshi, Vijayalaskhmi M , Hubli, India
- AICERA 4 The Human Iris Structure and Its Application in Security System of Car *****
Sreekala P and Victor Jose, James Joseph, Shibin Joseph, Kerala, India
- AICERA 5 Skill Acquisition in Engineering Education for Achieving Sustainability *****
Ravi Sankar Chandu and Naga Archana Kancharla, Andra Pradesh, India
- AICERA 6 A New Methodology to Teach Electrical Engineering Using Product Development Projects *****
Ivan C. Monsão, Brazil
- AICERA 7 Outcome based approach to Teaching, Learning and Assessment in Computer Networks: *****
An Experience
Jayalaxmi G.N, Suvarna G. K and Sujatha C . Hubli, India
- AICERA 8 A Review of Raga Based Music Classification and Music Information Retrieval (MIR) ***** +
P. Kirthika and Dr. Rajan Chattamvelli, Thanjavur, India
- AICERA 9 Geo-Spatial Library: A Geo-Spatial educational tool for Knowledge Management and *****
Capacity building
Kiran L.N. Eranki and A. Sivasena Reddy, Bombay, India
- AICERA 10 Effect of magnetic field on the Rayleigh-Bénard convection in a nanofluid layer: *****
rigid boundaries
Dhananjay Yadav, R. Bhargava and G. S. Agrawal , Roorkee, India
- AICERA 11 Competence Possessed by Engineering Professionals in Regard to the Prevailing Trends and *****
Worldwide Attitudes towards Engineering Education
Sandya M, Puducherry, India
- AICERA 12 A New Approach to System Simulation & Modeling Laboratory *****
**Shrinivas D Desai, Sreelatha V K, Chaitra Desai and Neha Tarannum
Hubli, India**

- AICERA 13 A Study towards Pedagogic Renovation and Rejuvenation for Private Engineering Colleges in India
**Subhash Abraham Punnoose, Ranjit Abraham
 Jaimol Thomas, Baselios Thomas I, Kerala, India**
- AICERA 14 Analysis and Implementation of a Current-driven ZCS full- bridge converter with reduced voltage overstress on the switches
Vidya M. Nair and Elizabeth Rajan Kerala, India
- AICERA 15 Employability skills for engineers in the global market
Dr. Prakash P and Dr. Bellappa S, Mysore, India
- AICERA 16 A Novel and Pedagogical Approach to Teach PID Controller with LabVIEW Signal Express
**Prabhu Ramanathan, Hrishikesh Pradhan, Sudha Ramasamy,
 P. Arulmozhivarman and Rao Tatavarti, Vellore, India**
- AICERA 17 Exploring Course Development for Green ICT in Engineering Education: - A Preliminary Study
**Rajeev Kumar Kanth, Harish Kumar, Pasi Liljeberg, Hannu Tenhunen
 Qiang Chen and Li-Rong Zheng, Finland**
- AICERA 18 Computer-Based Laboratory Teaching Tools: An Overview of LabVIEW and MATLAB
Leena N, Member, IEEE
- AICERA 19 Making Best Use of Alumni Resources for Holistic Development of Engineering Institutions
Sivaprasad Kodungallur, Kochi, India
- AICERA 20 A Study to customize the Methodology of Engineering Teaching based on the Intelligence Level of Students for Better Retention
Joshua Arul Kumar Ranjan and Annette Barnabas, Tamil Nadu, India
- AICERA 21 The Effect of Contextual Teaching Learning of Microprocessors on the Achievement of Degree Level Students
**Harmeet Dhindsa, Paramjit Tulsi, Sunil Dutt and Ganesh Dalvi,
 Jalandhar, India**
- AICERA 22 Virtual Laboratory Platform for Enhancing Undergraduate Level Induction Motor Course Using MATLAB/Simulink
Anurag Syal, Kumar Gaurav and Tukaram Moger, Karnataka, India
- AICERA 23 OSA – PR: Optimized Searching Algorithm Based On Page Ranking: Proposed Algorithm
Vedpal Singh, Anshul Chaudhary and Pankaj Punia Dehradun , India

- AICERA 24 EXTROVERT: Improving Comprehension to Innovate Across Disciplines
Narayanan Komerath, U.S.A
- AICERA 25 Need of Promoting Entrepreneurship at Institution Level for Engineering students in India
T Senthil Siva Subramanian, Pallavi Dubey and Anupam Singh Mathura 22, India
- AICERA 26 Annotation Based Personal Knowledge Management of Research Scholars
Archana Shukla and B.D. Chaudhary, Allahabad, India
- AICERA 27 E-Assessment for E-learning
Lakshmi Sunil Prakash, Dinesh Kumar Saini , Sohar University, Oman
- AICERA 28 Advancement in Nanotechnology and its Major Issues
Nikhil R S, Coimbatore, India
- AICERA 29 Application Of Neural Network in Speed Control of Brushless DC Motor using
Soft Switching Inverter
Sreekala P and Victor Jose , Kerala, India
- AICERA 30 Role of Mobile Augmentation in Mobile Application Development
Mr. Sohil Gadhiya, Dr. Kalpesh Wandra, Prof. Vimal Vaghela ,Gujarat, India
- AICERA 31 Power Conservation VLSI Circuit
Subhashrahul Shekhar and Pradeep S Kumar, KCG COLLEGE OF TECHNOLOGY
- AICERA 32 Development and Formulation of Effective Microbial (EM) Technology for Dairy Industrial
Effluent Treatment
Savitha S.Desai, Vijendra S.Sangam, Laxmi Joshi, Smita K , Asma Namazi and Swetha G, Hubli, India
- AICERA 33 A Qualified Analysis of Traditional and Technology Assisted Learning – An IT Industry Outlook
Ramesh Rajini and Raghavendra N , Bangalore, India
- AICERA 34 An overview of advanced oxidation process as an effective and visionary environmental
Engineering procedure to treat dye effluents from textile industries
Sukanchan Palit, Calcutta, India
- AICERA 35 New Energy Sources and their Sustainability
Susarla Ananta Rama Sastry and Ponnada Sreenu

- AICERA 36 Framework For Effective Utilization Of e-Content in Engineering Education *****
B Seetha Ramanjaneyulu and E Gopinathan, Guntur, India
- AICERA 37 Automated Evaluation of Programming Assignments ***
Rishabh Kaushal, New Delhi, India
- AICERA 38 Smart Grid as a Desideratum in the Energy Landscape: Key Aspects and Challenges *****
Valsamma Kochuparackal, Kerala,India
- AICERA 39 Influence of culture on the design process of online learning environments *****
Debayan Dhar and Pradeep Yammiyavar, Guwahati, India
- AICERA 40 CFD – A Virtual Platform for Teaching Concepts in Non-ideal Chemical Reactors *****
**Shilpa Mahamulkar, Anurag Kumar, Abhinav Achreja and Preeti Aghalayam
Chennai , India**
- AICERA 41 Contingency Assessment of Indian Utility 62 Bus System *****
Krishnakumar and Arthi R, Puducherry, India
- AICERA 42 A Comparative Study on Different Types of Hybrid Active Power Filters *****
Payal Patel and Mahmadasraf Mulla, Surat, India
- AICERA 43 Use Case Extractor: XML Parser for Automated Extraction and Storage of Use – Case Diagram *****
Vinay Vachharajani and Jyoti Pareek, Gujarat, India
- AICERA 44 Detecting Misbehavior Nodes and Trust Levels in Manets *****
**Varun Manchikalapudi, Sandeep Yelisetti, Ravi Kishan Surapaneni
Vijayawada, India**
- AICERA 45 A framework for hosting web services in cloud computing environment with high availability *****
Dilbag Singh, Punjab, India.
- AICERA 46 A Middle-Tier Approach for Scheduling the Work Log of Employees Using Location Based *****
Services
Lakshmi Prasanna Yeluri, Neelima Sarabu, Padmavathi Macherla
- AICERA 47 e-Learning in Web 2.0 World: A Case Study *****
M. Tariq Banday, Srinagar, India
- AICERA 48 Applications of Nanotechnology in the Field of Environment *****

Susarla Ananta Rama Sastry and Ponnada Sreenu

- AICERA 49 Energy Production from Neutron-rich Uranium and Thorium Isotopes
R. N. Panda, M. Bhuyan, S. K. Patra, Bhubaneswar,India
- AICERA 50 Activity Based Teaching Learning in Formal Languages and Automata Theory–
An Experience
Vijayalaskhmi M, Karibasappa K.G Hubli-India
- AICERA 51 Systems Engineering: A New Approach to Engineering Education in India
T.S.S.Subramanian1, Mukundlal, Prempyari, Pallavi Dubey, Mathura 22, India
- AICERA 52 Engineering The Twenty First Century Educational Architecture
Dr Valsamma K M, Kerala,India.
- AICERA 53 Transformation Process in Engineering Education: A Holistic Approach
Vipin, B., Vinay V. Panicker, R. Sridharan, Kerala, India
- AICERA 54 Use of Geosynthetic Material for Reinforced Earthwall Construction-A Review
C.Vignesh kumar, Tamil Nadu, India
- AICERA 55 A New Quad Tree Based Feature Set For Recognition of Handwritten Bangla Numerals.....
**Abhinaba Roy, Navonil Mazumder, Nibaran Das, Ram Sarkar,
Subhadip Basu, Mita Nasipuri**
- AICERA 56 Re- Engineering of ICT Engineering Education
Asha Ali1, Liyamol Aliyar ,Kerala, India
- AICERA 57 Activity Based Teaching Learning in software Engineering –An Experience
Padmashree Desai, G.H. Joshi , Hubli- India
- AICERA 58 Virtual Classroom For Deaf People
Debabrata Chowdhuri, Narendra Parel, Amrita Maity, Vellore-India
- AICERA 59 Difficulty Index of a Question Paper: A New Perspective
**Chinmayi Dixit, Gopalkrishna Joshi, Narasimha H Ayachit, Ashok Shettar,
Hubli,India**
- AICERA 60 DIVERSITY AND CHALLENGES IN ENGINEERING AND TECHNICAL EDUCATION
Dr. P. Prakash, Dr. Bellappa.S, Mysore,India.
- AICERA 61 An Innovative Approach Carried out in Data Structures and Algorithms Lab

Sujatha C, Jayalaxmi G. N, Suvarna G.K , Hubli , India.

- AICERA 62 Assessment of Overall Satisfaction Level of Students in a Technical Institution ****
Anilkumar K.K, Sagi T.M, Kerala, India
- AICERA 63 An Innovative Idea to Improve The Undergraduate Teaching Teams in India ****
Chakradhar Bezawada, Naveen Babu Valluri, Nithin Srihari Shahamir, Warangal , India
- AICERA 64 Trust Based Communication in Unstructured P2P Networks using Reputation Management and Self Certification Mechanism ****
M.Sasitharagai1, A.Renuga, A.Padmashree and T.Rajendran, Tamilnadu,
- AICERA 65 An Innovative Approach to Problem Identification and Design for Capstone Projects *****
Vijayalakshmi M, Padmashree D. Desai, G.H.Joshi, Hubli, India
- AICERA 66 PCLA: A New Public-Key Cryptosystem Based on Logarithmic Approach *****
Archana Raghuvamshi, P. Venkateswara Rao
- AICERA 67 Remote Experimentation of “No-Load Tests on a Transformer” in Electrical Engineering *****
P Raghavendra Pradyumna, Tarun CKS2, Dr. Surekha Bhanot, Rajasthan,India
- AICERA 68 Need of Promoting Entrepreneurship at Institution Level for Engineering Students in *****
India
Pallavi Dubey, T.S.S.Subramanian, Anupam Singh, Mathura 22, India
- AICERA 69 Securing Public Places using Intelligent Motion Detection *****5: 8
Arvind Rajpurohit, Ankit Agarwal, Mayur Gaikwad, Kapil Garg, Vahid Inamdar, Maharashtra, India
- AICERA 70 XML Based Lucid Web Operating System *****
Kapil Garg, Ankit Agarwal, Mayur Gaikwad, Vahid Inamdar, Arvind Rajpurohit, Maharashtra, India
- AICERA 71 Real Time Video Denoising *****
Dr. N. P. Kavya, Reeja S. R, Bangalore, India
- AICERA 72 SYBIL-A Tricky facsimile ****
Kapil Garg, Ankit Agarwal, Mayur Gaikwad, Shruti Nanwani, Vahid Inamdar, Maharashtra, India

- AICERA 73 Robust Approach for Palm (ROI) Extraction in Palmprint Recognition System ****
Subhashrahul Shekhar , BV Sravan Kumar , S Ramesh, Chennai, India.
- AICERA 74 Emerging Information Technology and Contemporary Challenging R & D Problems in the Area of Learning: An Artificial Intelligence Approach ****
Dinesh Kumar Saini , Lakshmi Sunil Prakash , and Mukta Goyal, Oman
- AICERA 75 Fuzzy Logic Based Performance Improvement of Induction Motor ****
M.Venkatachalam, Dr.S.Thangavel, Tiruchengode.
- AICERA 76 Implementation of an Efficient AC-DC Converter for Low Voltage Energy Harvesting ****
Anupriya Sriramulu, Madhu.B, Alamelu Nachiappan, Puducherry,India
- AICERA 77 Implementation of Recursive DFT Algorithm for Phasor Measurement Unit (PMU) ****
Megha G Krishnan, S Ashok Calicut, Kerala