

National Conference
On
“Emerging Technologies in Computer Engineering”
(NCETCE-2012)
3rd Nov. 2012



Conference Report

Organized By:



Department of Computer Science & Engineering
(NBA Accredited)
IEEE Computer Society Student Branch Chapter

Swami Keshvanand Institute of Technology,
Management & Gramothan, Jagatpura, Jaipur

In Association with

HCL

Co-Sponsor:



Computer Society Chapter IEEE Delhi Section

Glimpses of NCETCE-2012



NCETCE - 2012

This conference aims to provide a stage for expert technical exchanges and exhibition regarding the advanced technologies, equipments, techniques and innovations applied in field of Computer Engineering.

It has attracted governmental officials, multinational experts, managers, researchers and technicians in relevant field to discuss together their ideas and experiences.

The Organizing Committee of the NCETCE-2012, with its utmost sincerity, intends to invite all the related experts and scholars in the country to attend the Conference.

NCETCE-2012 was held under the Technical co-Sponsorship of Computer Society Chapter IEEE Delhi Section IEEE and in Association with HCL on 3rd Nov. 2012 at SKIT Campus, Jaipur by the Department of Computer Science & Engineering.

NCETCE-2012, the one-day events saw over 48 speakers and over 113 participants including key decision-makers from government, industry leaders, practitioners and academicians from India.

This conference aimed to take stock of the progress made by India in Technologies. The conference had also aimed to deliberate on the enabling infrastructure and policies and challenges of resources, and identify the critical success factors that build and sustain initiatives in Computer Engineering & Information Technology.

The conference included focused panels, discussions and sessions providing an unique opportunity for participants to share knowledge, information, news, views and network with peers and experts from the country.





The main conference agenda was formulated with guidance from the Conference Advisory Board included experts and decision-makers from around the country. The conference included three plenary and three parallel sessions spread over the schedule.

The inaugural session was taken up by the lightening up of the lamp under the bestowed blessing of Swami Keshwanand Ji and Maa Saraswati. Event was graced by

Shri Rakesh Verma, (Chief Guest) (IAS, Principal Secretary, Planning Department, Government of Rajasthan)

Shri. Daman Dev Sood (CIO & Head- Sustainability Practice, IEEE Ambassador, India)

Shri. Ripu Daman (Associate Vice President, HCL Infosystems, Jaipur)

Shri. Vinit Goyal (Manager, Infosys Technologies Ltd.)

Shri Rajesh K. Jeypaul (Technology Executive, IBM Innovation Center, Bangalore, IBM India)

Dr. V. K. Dubey (Retired Chief Scientist, CEERI Pilani)

Prof. (Dr.) V. K. Chaubey (Professor & HOD, BITS Pilani)

IBM Panel Discussion

The IBM Panel Discussion session was on “**Meeting the Industry Demand by Academia**”. Objective of this panel discussion is to explore the possibility of having customized curriculum as per the need of industry. There were various experts from industries IBM, HCL, Infosys, CEERI and from Rajasthan Technical University. This session was chaired by **Prof. R. P. Yadav**, Hon'ble Vice Chancellor, Rajasthan Technical University, Kota. He started his discussion on requirements of industry by academia. He also motivated the participants with special reference to current experiences of industry and expertise of students, an initiative aimed for bridging the gap between academia and industry.

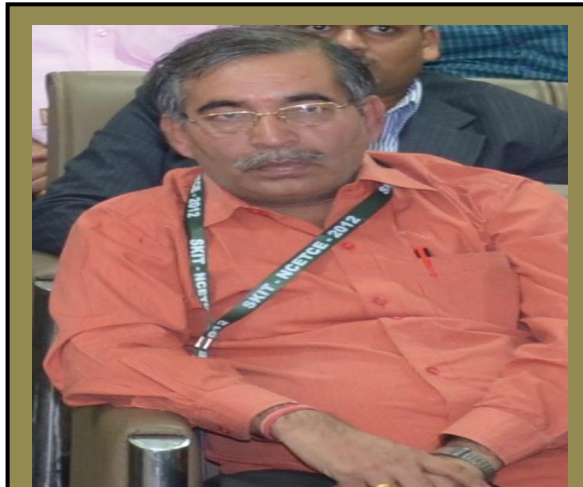
Mr. Rohit Khanna, General Manager IBM - Enterprise Business in Software Group has enlighten the participants from various academic institutions over the nation with expectations of industry demands skills, knowledge and attitude. He said that the industries hire people who must be committed, showing an aptitude and willingness to learn. IBM has collaborated with institutions in order to help create a skilled and competitive IT workforce. IBM provides training on various software applications to students. He discussed about the current need of industry in terms of competent manpower and how academia can help them to bring desired skill set.

Mr. Ripu Daman, Associate Vice President, HCL Infosystems Ltd. in his talk discusses about the various kinds of skills like analytical skill, communication skills and the team work & collaboration.

Shri Vineet Goyal, Manager, Infosys Tecnologies Ltd. speaks about the dedicated, disciplined and motivated attitude of industry people. In industries frequent learning and developing programs always on, so students require to work on skills, attitude apart from knowledge.

Dr. V. K. Dubey, Retired Chief Scientist, CEERI, Pilani explains about industry specific content i.e. constant with practical knowledge. Students focused on only theoretical knowledge and less usage of case methodology. So, frequent industry interaction is required for working on realistic expectations.

Technical Session- I



Prof. (Dr.) V. K. Chaubey

Head of Department, BITS Pilani

His research interest include Wireless & Optical Communication network design and simulation

The first plenary session of the day was on Web Applications and Security, Software product Development. This session was chaired by **Prof. (Dr.) V. K. Chaubey** and delivered talk on Web Applications and Security.

Total 15 papers were presented in this session on Web Applications and Security & Software Product Development.

Query Caching Approach for Dynamic Content Web Sites

In this paper author presents how to improve the performance of query caching for dynamic content web sites.

Red Hat Cloud Forms: Extended Services for open cloud by Red Hat.

It allows organization to build a hybrid cloud that encompasses their heterogeneous infrastructure. Cloud forms are an open hybrid infrastructure-as-a-Service (IaaS) software product that can manage heterogeneous It resources, both on premise and in public cloud.



Technical Session- II

In this session, Chairperson **Shri Rajesh K. Jeyapaul**-Technology Executive, IBM Innovation Center, IBM India speaks on “Cloud Computing: Energy consideration in cloud”. He saw various speakers from different colleges across the country. Another invited talk given by **Shri Ajeet Mishra**, Database Trainer from Oracle on the topic “Oracle Database Architecture”.

In this session various participants present 12 papers on Data Mining and Database Systems, Artificial Intelligence & Fuzzy logic.

Performance of Median and Fuzzy Filter in Image De-noising

It is one of the most popular methods in fuzzy filter. In these work Gaussian noise used and image De-noising performed by median and fuzzy filter

Swarm Intelligence for Robot Navigation

This paper investigates the applications of ACO for robot path planning.



Shri Rajesh K . Jeyapaul

Technology Executive, IBM Innovation Center, Bangalore, IBM India,

Rajesh K. Jeyapaul has a Masters degree in Software Systems and Business Administration. He leads an AIX development support team in Bangalore, India, and has authored IBM Redbooks. His area of expertise includes AIX problem determination, High Availability, Virtualization and Performance.

Technical Session- III

Prof. (Dr.) Anil Kumar Dahiya

HOD, CSE, Manipal University

Prof. (Dr.) Dahiya in his session he enlightened participants with his presentation on Cryptology. It covers both cryptography and cryptanalysis, including information theoretic and complexity theoretic perspectives. He also discusses implementation, application, and standards issues includes such topics as public key and conventional algorithms and their implementations.



In Technical Session – III Chairperson **Dr. Anil Kumar Dahiya**, Prof. & HOD, CSE, Manipal University, Jaipur delivered expert talk on “Cryptology”

It is followed by presentation session which includes theme on Image Processing, Network Security and on various other issues. Papers presented in this session:-

A Survey on the Wormhole Attack Detection Techniques in the Wireless Routing Protocols

Authentication Deletion in a Versioning File System

A Study on Graph Connectivity for Unsupervised Word Sense Disambiguation

Improved Meta Data Model for Efficient Content Based Image Search

User Authorization Considerations in 3G IMS Presence Server

There were around 33 papers presented in this session.

Wrap-Up and Valedictory Session

In the valedictory session key persons, practitioners and chair members share their experiences of the conference.

Prof. (Dr.) Anil Chaudhary also pointed out that the discussions and the deliberation in conference has shown new light and faith in the strength of partnerships and collaborations for development at a broader level.

Summary: On the occasion of the 2nd National Conference on “Emerging Technologies in Computer Engineering” in association with HCL under technical co-sponsorship of IEEE Computer Society. Today we had the privilege of listening of perceptive and insightful speeches on varied facets of critical issues facing the researchers and practitioners in the field of Computer Technology. Eminent speakers have enlightened us today with their thought-provoking presentations; let me do a brief recap of the important issues that they have flagged.

- The inaugural session was taken up by the lightening up of the lamp under the bestowed blessing of Swami Keshwanand Ji and Maa Sarswati. After offering prayer, Shri Surja Ram Ji Meeel, Chairman of SKIT, welcome the present delegates, high esteemed guests, faculty members and students. There were invited talks from the honored guests from all over the country.
- The Chief Guest was Shri Rakesh Verma, IAS, Principal Secretary, Planning Department, Government of Rajasthan gives his hearties congratulation for this 2nd National Conference.
- Mr. Ripudaman, Associate Vice President, HCL Infosystems, Jaipur, in his inaugural address highlighted the relevance and importance of this conference towards Emerging trends in Computer Technology.
- Mr. Daman Dev Sood (Guest of Honour), IEEE Ambassador, spoke at length, from his heart about his association with 2nd National Conference.
- In Technical Session - I Chairperson Prof. (Dr.) V. K. Chaubey HOD, BITS, Pilani delivered an expert talk in the themes of Web Applications and Security, Software Product Development. Second invited talk delivered by Shri Ajeet Mishra from Oracle India discussed important facts of Databases. And total 15 papers were presented on Software Development and Web applications.

- In Technical Session - II Chairperson Shri Rajesh K. Jeyapaul from IBM India, Bangalore delivered an expert talk on “Cloud Computing: Energy consideration in cloud”. In this session various participants present 12 papers on Data Mining and Database Systems, Artificial Intelligence & Fuzzy logic.
- In Technical Session - III Chairperson Prof. (Dr.) Anil Kumar Dahiya, HOD, CSE, Manipal University delivered an expert talk on the Cryptology. It is followed by presentation session which includes theme on Image Processing, Network Security and on various other issues.
- The conference witnessed around 91 technical papers from all over the country.
- To conclude, this day-long interface has undoubtedly thrown up challenges, illuminating ideas, fresh insights and alternative ways of thinking about the competitive yet cooperative combat that the world of computing is readying itself for. How best this knowledge can and should be used by you all, it is for all of us to pause and ponder.

Prof. (Dr.) C. M. Choudhary
Convener, NCETCE-2012



"Most successful men have not achieved their distinction by having some new talent or opportunity presented to them. They have developed the opportunity that was at hand."

--Bruce Barton

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