3rd National Conference

On

"Emerging Technologies in Computer Engineering" (NCETCE-2013)

30th Nov. 2013
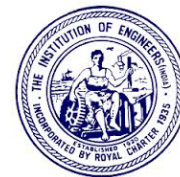
Conference Report

Organized By:

Department of Computer Science & Engineering (NBA Accredited)

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

in Association with

HCL

Sponsored By:

The Institution of Engineers (India), Rajasthan State Centre, Jaipur

http://www.skit.ac.in/ncetce2013.html

Glimpses of NCETCE-2013

NCETCE - 2013

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-2013, with its utmost sincerity, intends to invite all the related experts and scholars in the country to attend the Conference.

Third National Conference on "Emerging Technologies in Computer Engineering" (NCETCE-2013) was held in Association with HCL, Sponsored by The Institution of Engineers (India) on 30th Nov. 2013 at SKIT Campus, Jaipur by the Department of Computer Science & Engineering.

NCETCE-2013, the one- day event saw over 48 speakers and over 124 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 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 Sarswati. Event was graced by **Shri Sanjay Malhotra, (Chief Guest)** (IAS, Secretary to Government & Commissioner, Department of Information Technology & Communication, DoIT&C, Rajasthan), **Ms. Malathi Srinivasan** (Country Manager, Project Praviin & Academic Initiative, IBM India Pvt. Ltd.), **Prof. Daman Dev Sood** (CIO & Head- Sustainability Practice, IEEE Ambassador, India), **Shri. Ripu Daman** (Associate Vice President, HCL Infosystems, Jaipur), **Shri. Amit Limba** (Senior Project Manager, Infosys Technologies Ltd.), **Shri Ashotush M. Deshpandey** (Technical Director, Department of Information Technology & Communication, DoIT&C, Rajasthan).

Mr. Amit Limba, 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. He also discussed about Jaipur, Development Center and how it is forecasted as one of the most relevant DC in India. **Prof. Daman Dev Sood** emphasized on **"Green IT cases of successful completion"**. **Shri Ashotush M. Deshpandey** discussed about the technical education in Rajasthan and how E-Governance is affecting the current academic scenario.

After the lamp lighting ceremony, **Shri Sanjay Malhotra** inaugurated **National Facilities in Engineering & Technology with Industry Collaboration (NAFETIC)** Portal, Sponsored by AICTE under Research & Institutional Development Bureau and HCL. He spoke the relevance and opportunities that E-governance prevails in the field of both Industry and Academia. **Mr. Ripu Daman**, gave the introductory conference note and discloses the conference agenda and conference themes. In his talk discusses about the various kinds of skills like analytical skill, communication skills and the team work & collaboration.

Mobile Technologies: IBM

The first expert talk was on "**Mobile Technologies on IBM Platform"**. Objective of this discussion was to explore the possibility of having customized curriculum as per the need of industry. This session was chaired by **Ms. Malathi Srinivasan**, Country Manager, Project Praviin & Academic Initiative, IBM India Pvt. Ltd. She started her discussion on requirements of industry by academia. She 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.

She 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. She discussed about the current need of industry in terms of competent manpower and how academia can help them to bring desired skill set.

Emerging Technologies: TCS

This was the second expert talk and initiated by **Mr. Rajit Sikka**, TCS. He briefed that collaboration between industry and academics enhances the quality of both education and research in both domains. The talk was followed by an expert session from **Mr. Akshay Bhargava**, TCS. Mr. Bhargava displayed the life changing affects of emerging technologies. He forecasted that in near future computers will be replaced by pens with inbuilt projectors and Bluetooth keyboards. He also discussed the futuristic aspects of smart phones, holograms, smart homes, domed cities, robotics etc. The session ended with some amazing motivational videos of emerging technologies in future.

Technical Session- I

Dr. Mamta Rani

Associate Professor & Head, Department of Computer Science, Central University of Rajasthan.
Her Research interest include Fractal Graphics & Chaos.

There were two parallel sessions. The first plenary session of the day was on **Web Applications and Security, Data Mining and Database Systems, AI & Fuzzy Logic**. This session was chaired by **Dr. Mamta Rani (Associate Professor & Head, Central University of Rajasthan),** who delivered a talk on **"Fractals & Chaos"**.

The parallel session was on **Software Product Development, Image Processing, Network Security & Miscellaneous**. The session was chaired by **Dr. Nagaraju Aitha (Assistant Professor, Central University of Rajasthan),** who delivered a talk on **"Research Work towards Sustainability"**.

Total 22 papers were presented in this session on the above themes.

- **"Java Speech API Based Voice Browser":** Shubhi Agarwal[1], Dollma Kalsi[2], Richa Varshney[3], Sarabjeet Kaur[4], **SRMSWCET, Bareilly**

- **"Analyzing of System Errors by Using Web Server Logs in Web Usage Mining":** Arvind K Sharma[1], P.C. Gupta[2], **University of Kota, Kota**

- **" Hadoop MapReduce and Top Challenges for Hadoop Map Reduce in Enterprise":** Anil Kumar Prajapati[1], Sandip Darwade[2], **MNIT, Jaipur**

- **"Impact of Mobile Application in Learning Methodology":** Vikram Gupta[1], Sumegha Chaudhary[2], Satya Prakash Thadani[3], KavitaChoudhary[4], **ITM University, Gurgaon**

- **"Comparison of Automated Testing Tools and their Impact on Software Testing":** Abha Jain[1], Manish Jain[2], Sunil Dhankhar[3], **MITRC, Alwar**

Big Data Research: TCS

The post lunch session was started with the expert talk by **Mr. Navneet Agarwal**, TCS. He focused his discussion on Big Data. He explained that Big Data is not just about the volume of data but also includes data variety and value. He interacted with the audience through some questionnaires and made the discussion interactive.

Technical Session- II

In this session, Chairperson **Dr. Sumit Srivastava**, Associate Professor, Department of Computer Science & Engineering , Manipal University, Jaipur speaks on **"Security over Encounter Based Mobile Networks: Social Application Architecture"**.

In this session various participants present 26 papers on **Web Applications and Security, Data Mining and Database Systems, AI & Fuzzy Logic**.

- **Artifacts Removal from Brain CT images:** Bhavna Sharma[1], Prof K. Venugopalan[2,] **MLSU, Udaipur**

- **Analysis of Image Based Authentication and Image Recognition Captchas to Secure Password:** Payal Desai[1], Neha Parmar[2], Tanvi Varma[3], **Gujarat University**

- **Mobile Ad-hoc's Reliable Data Security for Multipath Multimedia Streaming:** Sunil Kumar K N[1], Ramaprasad S S[2], Rajendra Prasad P[3], **SVCE, Bangalore**

- **Frame and Burst Acquisition in TDMA Satellite Communication Networks:** Ramprasad S S[1], Sunil Kumar K N[2], Rajendra Prasad P[3], Ayushi Bidsar[4], **SVCE, Bangalore**

- **The Modeling and Simulation of Wind Energy Based Power System using MATLAB:** Chandra Kant Jaga[1]**, Mewar University, Chittorgarh**

Dr. Sumit Srivastava

Associate Professor, Department of Computer Science & Engineering, Manipal University & Secretary IEEE Computer Society IC.

Dr. Sumit Srivastava has a Ph.D. degree in Data Mining & Warehousing from University of Rajasthan, Jaipur. His area of expertise includes Cloud Computing, Grid Computing, Cluster Computing, High Availability, High Performance Computing, Virtualization and Performance Tuning.

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, Head, Department of Information Technology 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 3rd National Conference on "Emerging Technologies in Computer Engineering" in association with HCL Sponsored by The Institution of Engineers (India). 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 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, **Prof. S. L. Surana**, Director (Academics), 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 Sanjay Malhotra** (IAS), Secretary, DoIT&C, Government of Rajasthan gives his hearties congratulation for this 3rd 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.

- **Prof. Daman Dev Sood** (Guest of Honor), IEEE Ambassador, India spoke at length, from his heart about his association with 3rd National Conference.

- Objective of first expert talk was to explore the possibility of having customized curriculum as per the need of industry. This session was chaired by **Ms. Malathi Srinivasan**, Country Manager, Project Praviin & Academic Initiative, IBM India Pvt. Ltd.

- Second expert talk was initiated by **Mr. Rajit Sikka**, TCS. He briefed that collaboration between industry and academics enhances the quality of both education and research in both domains. The talk was followed by an expert session from **Mr. Akshay Bhargava**, TCS. Mr. Bhargava displayed the life changing affects of emerging technologies.

- In **Technical Session - I** Chairperson **Dr. Mamta Rani**, Associate Professor & Head, Department of Computer Science, Central University of Rajasthan delivered an expert talk on **"Fractals & Chaos"**. Second invited talk was delivered by Dr. A. Nagaraju, Assistant Professor, Department of Computer Science from Central University of Rajasthan. The topic of his talk was "Research Work towards Sustainability". A total 22 papers were presented in Ist Technical Session.

- In **Technical Session - II** Chairperson was **Dr. Sumit Srivastava**, Associate Professor, Department of Computer Science & Engineering, Manipal University. The topic of his expert talk was **"Security over Encounter Based Mobile Networks: Social Application Architecture"**. In this session various participants present 26 papers.

- The conference witnessed around 48 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-2013 & Head, Department of Computer Science & Engineering, SKIT

"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

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