

**Invited talk Delivered by Dr. Dharm Singh in CSI Annual Convention  
held in Mumbai during 25-27 November 2010**

**Track Chair: Mr. Sunil Mehta and Prof. Pradeep Pendse**

Mr. Pradeep Waychal, Sr. VP - Patni, delivered the keynote address for the track. He shared some of his research related to IT enabled business transformation. He proposed a Maturity framework for IT enabled business transformation indicating the key process areas at each stage. The highest stage is where there is a continuous innovation led by IT - which he refers as the optimized level on the maturity framework.

Mr. Atul Bhandari, VP - SAP - highlighted the fact that many enterprise wide IT projects lack a consciously defined business case. He emphasized the need for a proper business case, which is aligned to the company's business objectives. He also emphasized the fact that enterprise solutions should be viewed as business projects and not IT projects. He also outlined some of the strategies such as On device, On demand etc. and the importance of aligning these to overarching business goals.

Mr. Shalendra Lande from TIBCO explained the challenge of working with heterogeneous technology environments and the crucial role, which TIBCO plays in ensuring seamless integration across multiple platforms. With the help of schematic diagrams he showed how the architecture for Enterprise level applications using TIBCO, can be transformed. This transformation makes it scalable as well as seamless across platforms to help construct more durable, scalable and reliable infrastructure.

Mr. Srikant Patkar, Chief Architect, UST Global, a leading US based software company, spoke on the architecture for software process improvement to a nearly packed room. His talk was interactive, informative and thought provoking. He used the 4+1 views framework usually used for Software architecture to discuss the various views of software improvement leading to an appropriate strategy for software process improvement. He used 3 real life case examples to illustrate his views. One of these was a large retail company, which has a USD 95 million budget for process improvement, and another one is a large retail company. He discussed the pros and cons of big bang versus incremental approach to process changes. He shared detailed experiences for each of the views on process improvement. He finally proposed a way forward.

The final talk during this track was delivered by Dr. Dharam Singh, faculty in Computer Science and the chairman of the CSI SIG on Wireless Networking. He explained his research, which could lead to an optimization of bandwidth and several other benefits on wireless networks making delivery of Video of higher quality at lesser bandwidth. His talk was seen as an infrastructure solution for many of the solution ideas discussed in the previous sessions.

**Track : iSolution**  
Track Chair : Mr. Sunil Mehta, Central Asia, JWT and Prof. Pradeep Pendse, Dean, Computer Science, Welingkar Institute of Management.

**Speakers**

- Mr. Pradeep Waychal  
AD and AM- Head Technology Practices  
Patni Computer Systems  
Topic: IT Enabled Business Transformations
- Mr. Atul Bhandari  
SAP, India  
Topic: "Run Better with SAP"
- Mr. Shalendra Lande  
TIBCO  
Topic: SOA Governance
- Mr. Srikant Patkar  
Chief Architect  
UST Global Inc  
Topic: Architecture for Software Process Improvement in Large Business
- Mr. Pankaj Nathur  
Country Manager  
Manufacturing Industries Practice, HP Enterprise Services, HP India
- Mr. Anurag Gupta  
CEO  
A Lingo World
- Dr. Dharam Singh  
SIG Convener- WWS  
CSI  
Topic: End to End Management System for Video Transmission over IP Network

Track Hosted By

30th - 27th November 2010, Hotel Taj Lands End, Mumbai

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**Track: Research**  
**Track Chair: Dr. Raman K. Bhatia, Hon. Research Director, IIT Bombay**

The track on research was organized with many eminent speakers including key note address by Prof. Soneil Rastoin, president elect, IEEE (CSI). Prof. Rastoin presented review process of evaluating the performance a faculty member for promotion etc based on the three factors (i) content preparation, (ii) delivery system, & (iii) Research activities.

Mr. Ashish Soneil & Neha of Oxygen Services gave a talk on "An integrated approach to mimic human info collation and create intelligence in an automated manner". The thrust of the presentation was use of AI techniques & parallel processing.

Dr. Jaya Parvatharaj of NVIDIA, Pune presented her lecture on "HPC & cloud computing with GPU: A Paradigm Shift". She surveyed the progress in high performance computing (HPC) & super computing with their current performance v/s power utilization. She also highlighted the application of GPU as a new paradigm for parallel processing.

Prof. K.S. Rajan of IIT Hyderabad presented his talk on "Pushing the frontier areas of computer science". Focus of the talk was use of spatial information for agriculture production using high performance computing.

Dr. Raghuram Krishnamoorti of IBM-Research India, gave his talk on "Real Analytics Tools for Customer Insight". For e-governance & other support to the public there is need to carry out analysis of documents. Various tools developed by IBM were presented by him.

Dr. Hemant Dabod of CDAC presented his talk on "Dilemma and scope of research in multilingual implementation in software packages and solutions". It was noted that excellent work done by CDAC in multilingual approach needs protection for universal application in the country.

The interaction & detailed discussion led to the following recommendations by the track group:-

- There is a need to develop a group in parallel computing to promote research on this future discipline. It was decided to propose to CSI Excom to approve a SIG on Parallel Computing with Dr. Jaya Parvatharaj as founder chairperson. She was requested to form a proposal in this regard and send it to CSI.
- CDAC may use CSI communications & other platforms of CSI to popularize their work on multilingual applications.

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