



Cloud computing is believed to be the new wave which will dominate the computing world. While Cloud Computing offers lot of advantages, there are still a number of challenges before it gets wider acceptance and public clouds gain widespread use.

Considering the importance of Cloud Computing in the days to come, Bangalore Chapter of Computer Society of India, in association with CSI Division 1 and Division 4 launched the conference series on **Advances in Cloud Computing (ACC 2012) on 27th July, 2012** to provide an international forum for researchers, professionals, and industrial practitioners to share their knowledge in the rapidly growing area of Cloud Computing. The Conference held in Hotel Lalit Ashok, Bangalore during July 26-28, 2012 received very good response from the industry and academia with several professional organizations supporting this event, which included IEEE-Bangalore Section, The Institution of Engineers(India), IETE, IET, ISACA Bangalore Chapter, FKCCI, ISTE, OMG and others. The conference was supported by leading organizations, which included Department of Science and Technology (Government of India), STPI, ISRO, Tally Solutions, VMware, EMC, CDAC, MindTree, NIIT, Dell, Huawei, Accenture, SAIL among others.

Sri. M.N Vidyashankar, Principal Secretary, Industries and Commerce, Government of Karnataka, was the Chief Guest in the Inaugural function of ACC 2012. Prof. S Sadagopan, Director, IIITB and Sri. J Parthasarathy, Director, STPI Bangalore and Chennai were the Guests of Honor. Sri. Vishwas Bondade, Chairman of Computer Society of India-Bangalore Chapter, welcomed the august gathering and Prof. (Dr.) Anirban Basu, Past Chairman of CSI Bangalore Chapter and Event Chair of ACC 2012 gave an overview of the program.

The conference started on 27th July and was preceded by 4 Tutorials held on 26th July on topics of great interest and relevance. The Tutorials included:

- Cloud Computing and Aneka Platform by Prof. Raj Buyya, University of Melbourne, Australia
- Cloud Resource Orchestration by Dr. Rajiv Ranjan, CSIRO, Australia
- Open Platforms for HPC and Scientific Cloud by CDAC team led by Dr. Prahlaad Rao
- Using Cloud for (improving) software testing by Dr. Prakash Mutalik

The Tutorials were very well attended and provided a good forum for interactions and learning.

The conference ACC 2012 had a very interesting program with a good mix of Theory and Practice. Call for Papers was released last year and received a good response. All papers were reviewed by an International Team of Reviewers under the leadership of Prof. Raj Buyya (Hony Conf. Chair) and Dr. Rajiv Ranjan (Program Chair).

The Conference had invited speakers from academia and industry to help professionals learn about challenges in Cloud Computing. A number of renowned experts from all over the world participated and delivered Invited Talks and shared their expertise.

Prof. (Dr.) Raj Kumar Buyya, Professor and Director, University of Melbourne, Australia delivered a Talk on "Market-Oriented Cloud Computing: Challenges and Opportunities". Dr. Dimitrios Georgakopoulos, Director, CSIRO, Australia delivered an Invited Talk on "Media Wise - Designing a Smart Media Cloud", Prof. (Dr.) Sikharesh Majumdar, Professor and Director, Carleton University, Canada spoke on "Resource Management on Clouds: the Multifaceted Problem and Solutions", Prof. (Dr.) Chen Khong Tham, Associate Professor, National University of Singapore delivered a Talk on "People-centred Cloud Service Aggregation and Exchange". Prof. (Dr.) Sanjay Madria, Missouri University of Science and Technology, US shared his expertise on "Trust in Cloud Infrastructure and Security in Sensor Cloud Computing", Dr. Arkady Zaslavsky, CSIRO, Australia delivered Talk on "Sensing-as-a-service and big data".

Technical leaders from the industry who shared their expertise included:

- Tarun Sareen, Sr. Director, EMC Corporation who delivered an Invited Talk on "Winning The Business With Cloud & Big Data"
- Dr. Sudhir Dixit, Director, HP Labs India shared his thoughts on "Peering Into the Future of Cloud Computing and Services"
- Rajesh Nair, VMware delivered a Talk on "Software Defined Datacenters"
- Sunil Gupta, of Tally Solutions spoke on "The Golden Hammer - What it will take to make the Cloud a Swiss Knife"
- P Sundar Varadaraj, Director, Technology and Innovation Center, Dell delivered an Invited Talk on "The Art and Science of making the Cloud work"

- Vishal Sharma, Director, Deloitte Consulting India shared his views on "Business benefits of cloud computing - Looking beyond technology"
- Vamsicharan Mudiam, Country Executive - Cloud Computing, IBM delivered an Invited Talk on "SmartCloud: Rethink IT. Rethink Business"
- Raja Bavani, Chief Architect, MindTree shared his thoughts on "Think Agile to Succeed in Cloud Computing Projects"
- Hari Vasudev, Vice President, Yahoo spoke on "The Intersection of Cloud Computing and Big Data"
- Bimal Shah, Head-Architecture, iON, TCS delivered a Talk on "Future of inventions in cloud computing"
- (Dr.) Sarat Chandra Babu, Executive Director, CDAC spoke on "Cloud Security"
- Bijoy Das, NIIT enlightened on their work on Cloud Computing Education
- Yathish L N, Chief Architect, Huawei Technologies shared his expertise on "How to enable operators to take full advantage of Telecom Cloud"
- Nilesh Naker, Associate Director, Ernst and Young delivered a Talk on "Cloud Computing Adoption in India - A Practitioner's View"
- Sanjeev Mehta, VP, SAP delivered an Invited Talk on "SAP Business ByDesign - next Generation Cloud Suite for Medium Enterprises"
- Pamela Kumar, Member of IEEE SA Board of Governors shared her views on "Intercloud Interoperability"
- Raghavan Subramanian of Infosys delivered a Talk on "Can Cloud Computing disrupt incumbent IT"

There was a Panel Discussion moderated by Past CSI President Lalit Sawhney on Challenges to Cloud Adoption. The panelists included reputed CXOs: Sayeed Anjum (Greytip), Rakesh Kumar (Unilever), Antra Bhargava (Grant Thornton, Ireland), M G Raghuraman (Mphasis), Ravi Eppaturi (Mphasis), and V V Padmanabhan (Britannia).

The Conference concluded with a Valedictory Session chaired by Padma Bhusan Prof. V Rajaraman, former President of CSI and Ex Chairman of SERC, IISc, and considered Father of Indian Computing.

Papers selected after careful scrutiny and the talks were compiled by the Editors: Rajiv Ranjan, Raj Buyya, and Anirban Basu and brought out in the form of proceedings published by Universities Press. ACC 2012 brought the best possible combination of knowledge from the industry and academics and participants felt that the deliberations of ACC 2012 will help in enhancing the expertise of both IT professionals and academics in the area of Cloud Computing and shaping Indian software prowess in this emerging field. In his valedictory address Prof. (Dr.) Anirban Basu thanked all the speakers and sponsors for making this a memorable event and setting a benchmark in organizing International Conferences. ■