

International Workshop on Distributed Systems

27 – 28th November 2010

The Department of Computer Science and Engineering, IIT Kanpur, hosted the second International Workshop on Distributed Systems to bring together researchers, students and practitioners in the area of distributed systems.

Eleven papers were selected from a total of 37 submissions. These papers were organized into four work-in-progress sessions spread over two days. The sessions also included six invited talks and a tutorial. The list of invited speakers was drawn up from Industry and Academia.

The inaugural talk on Architecture at Internet Scale was delivered by Mr. Hari Vasudev, Vice President, Yahoo! India, Software Development Pvt. Ltd. The talk provided the audience with a comprehensive walk-through on the use of the cloud platform within the Yahoo technology stack. It was followed by talks by Dr. Montresor and Dr. Picco.

Dr. Albert Montresor of the University of Trento, Italy, spoke on how P2P architecture can be leveraged to reduce the cost of sharing contents available through cloud while Dr. Gian Pietro Picco of the University of Trent, Italy, spoke on how research on wireless sensor network at the University of Trento led to the deployment of WSNs in a few real world applications in Italy. It provided a good practical overview of interesting applications where WSN deployment can be important both in terms of efficiency and cost-effectiveness. The tutorial on Hadoop by Mr. Sriguruthnath Chakravarthi, Senior Manager, Yahoo! India, generated a lot of inquisitive queries especially from the students in the audience.

Two work-in-progress sessions were also scheduled on the first day, each having 3 student papers. The first work-in-progress session was for distributed systems and the second was devoted to WSN.

The second day of the workshop began with the invited talk by Dr. Mainak Chaudhuri from the Department. He highlighted the use of flexible address remapping in improving performance and scalability of both caching and communication in Mid-range ccNUMA clusters.

The second talk of the day was delivered by Prof. Rajat Moona. He focused on an enterprise level encrypting file system with distributed access. It was followed by a talk

by Prof. D. Janakiram of the Department of CSE, IIT Madras, on hardening of linux kernel. The last talk of the day was delivered by Prof. R. K. Shyamasundar of TIFR who spoke on concurrent and parallel programming.

Two work-in-progress sessions were also scheduled on this day. Two student papers were on security and protocols and three on concurrent programming. All the presentations were managed by the student delegates. There were many insightful suggestions and comments from the expert delegates present in the audience. The workshop had an impressive 100% attendance of delegates.