

**Report of the National Conference on Computational Mathematics and
Soft Computing held on the 24th and 25th of July 2009.**

Organised by the Departments of Mathematics and Computer Science

Women's Christian College, Chennai

The Conference was inaugurated by Hon. Dr. Poongothai Aladi Aruna, Minister of Information Technology, Government of Tamil Nadu. She briefed on history of Mathematics, activity based learning and convergence of Mathematics and Science for inventions. She also gave us an insight on the importance of higher education and creating job opportunities.

The Special address was delivered by Mr. R. Ramkumar, Vice President, Corporate Communications, Cognizant Technology Solutions. He gave an overview of the increasing relevance of computational Mathematics and Soft Computing in IT industry. He also emphasized on creative thinking in the field of computational Mathematics and Soft Computing.

Dr. Rani Siromoney, Adjunct Professor, Chennai Mathematical Institute, spoke about the existence of DNA Computing and storage media for genetic information. She also elaborated on the biological notions of DNA Computing, in addition to which the basics of complexity of problems and related algorithms were presented.

Dr. Mohan K Kadalbajoo, Professor, Department Of Mathematics, IIT Kanpur, drew our attention to some of the Challenges of Computational Mathematics. He shared his extensive knowledge of Numerical Computing and its related aspects. His interaction with the audience not only kept us attentive but also clarified complex issues.

Dr. P. Sivakumar, Deputy Director, SERC introduced the delegates to some of the vital Computational Techniques and Methodologies of Soft Computing. He also gave his views and dealt with the intricacies of Genetic Algorithms with wide-spread examples.

On 25th July two sessions were held at the Conference Hall and the Audio Visual Room from 8.30 am to 10.30 am simultaneously.

Dr. Sonajaharia Minz, Professor, School of Computers and Systems Sciences, Jawaharlal Nehru University, New Delhi, conducted a workshop which brought out the basic concepts of Rough Set Theory and Granular Computing with examples and hands on exercise. Her expertise in the field delivered valuable information about various topics related to Granular Computing, its applications and concepts of Data Mining.

Dr. S. Thamarai Selvi, Head of IT Department, MIT, Chennai, emphasized on the importance of Grid Computing, Soft Computing and Cloud Computing. In view of the same, she also threw light on the development of technology and the present status of IT industry.

Later, Dr. John Ebenezer Augustine, Scientist, Tata Consultancy Services, Pune, gave a briefing on the Graph Theory and Approximation Algorithms. Dr. G.V. Uma, Professor Computer Science and Engineering, Anna University, Chennai has given an introduction to data mining and its applications.

There were 43 colleges from different States of India with 149 participants. 27 Papers were presented by research scholars and 6 Poster Presentations were done by the final year students of our college.

The feedback was obtained from the participants regarding the Relevance of the theme, Quality of the lead lectures, Quality of papers presented, Structure of the Conference, and Arrangements at the venue. The hospitality and arrangements made were much appreciated. The general response was that in all the aspects Conference was good. Some of the comments were:

- the collaboration of Mathematics and Computer Science was very good
- the cooperation and team work of staff and students was excellent
- the topics covered are useful for further research work

**Ms. V. Narmadha,
Organizing Secretary**