

**National University of Singapore
School of Computing
Summer School on Research Frontiers in Computing**



School of Computing



Computing has emerged as a mature discipline in its own right. Indeed, many functionalities in our daily lives are today software controlled. Beyond the classical areas in theoretical computer science and computer systems, today's computing research aims to study new computing paradigms like cloud computing, novel applications of computing in graphics/ media as well as social and economic issues in adopting computing technologies. Today's frontiers in computing research thus involve study of classical computing areas as well as study of newer areas such as bioinformatics, computational linguistics, electronic commerce and service systems. In the classical areas, the research focus is on morphing existing concepts and notions with respect to emerging science / technology trends (such as the widespread growth of multi-cores, or the emergence of cloud computing, or radically new paradigms like quantum computing). In the newer areas, there exist many research opportunities such as analysis of gene sequences, developing reliable software for critical application domains like avionics or medical instruments, and the science behind software outsourcing / IT services.

At National University of Singapore's School of Computing, we are conducting research in various classical and emerging topics of computing. This one week school provides us an opportunity to discuss our ideas with faculty members and students from the Indian sub-continent. Indian universities have made strong contributions in terms of computing research and education over the years. Indeed, this is evidenced by India's entrepreneurial leadership in software services. This event will provide a fertile ground for research discussions, collaborations and thought sharing among young as well as mature researchers from NUS and Indian universities.

Applications are invited for this summer school. All full time students who have completed at least three years of their Bachelor's degree are welcome to apply. We particularly welcome applications from students who are pursuing a Master's degree. Very limited scholarships for total / partial funding are available to students, so anybody interested is encouraged to apply as soon as possible.

Application deadline: 15 March 2011

Notification to students: 1 April 2011

Date of Summer School: 6 June - 10 June 2011

Application form can be downloaded from <http://www.comp.nus.edu.sg/graduates/sumsch.html>. Please send the completed form to sumsch@comp.nus.edu.sg.

For any queries regarding the summer school, please send your mail to sumsch@comp.nus.edu.sg.

Programme Outline

Day 1

Morning: Welcome / Opening Remarks / Plenary talk

Afternoon: Ice breaking session,
followed by Special session on NUS-India
collaborations

Evening: Social Event

Day 2

Software & Systems Research

Day 3

Data Analytics

Day 4

Graphics and Media Technologies

Day 5

Information Systems

School of Computing
National University of Singapore
Computing 1
13 Computing Drive
Singapore 117417
www.comp.nus.edu.sg/graduates/