Message from the MDC Chairs

With the advances in mobile wireless communication technology, research in distributed computing is beginning to extend its scope to address problems relevant to mobile environments. The mobility of users together with their personal/wearable computing devices across network environments has led to an increasing need for developing system structures and mechanisms that facilitate ubiquitous access to computing resources. With emerging technologies for low powered wearable computing devices that can transparently interact with embedded devices in a building structure, "smart" and pervasive computing environments are emerging. Mobile distributed computing has emerged as a discipline of distributed systems research and practice toward support for mobility. It is concerned with creating solutions using mobile communication networks and mobile computing devices to enable the sharing of distributed resources/services and to facilitate remote collaborations while people work away from the fixed, wired facilities. Mobile distributed computing encompasses a wide-range of research areas such as wireless and ad hoc networking, distributed data and transaction management in mobile environments, security, and mobile code/agent technologies.

The special characteristics of mobile environments, such as highly variable connectivity, disconnection, location-dependency, and energy and resource sensitivity, and the diversity and flexibility introduced by mobile systems bring new challenges for research in distributed computing. Distributed computing thus needs to evolve in answer to new environments and requirements. Existing solutions, tailored primarily for wired distributed environments, need to be extended, and new solutions need to be created. The principal theme of this workshop is the development of distributed algorithms, system level mechanisms, and applications for mobile computing environments.

In response to the call-for-participation, we received 28 papers covering a range to different topics related to mobile distributed computing. Each paper was reviewed by at least three members of the Program Committee. The final program includes 12 regular papers and 6 short papers. The organizing committee wants to thank the Program Committee members for their in-depth and timely reviews of the papers. Without their help and advice this program would not be possible. Thanks to Hong-Va Leong for serving as the Publicity Chair. We also want to thank Prof. Jie Wu, ICDCS Workshop Chair, for his help and guidance in workshop organization.

MDC 2003 General Co-Chairs:
Jiannong Cao, Hong Kong Polytechnic University
Sajal K. Das, University of Texas at Arlington

MDC 2003 Program Chair:
Anand Tripathi, University of Minnesota

MDC 2003 Program Co-Chairs:
Guohong Cao, Pennsylvania State University
Weijia Jia, City University of Hong Kong