

## Preface

NASA/IEEE MSST2006, the Fourteenth NASA Goddard / Twenty-Third IEEE Conference on Mass Storage Systems and Technologies has as its theme "The Global Storage Grid: High-Speed, Secure Access to Data on Open, Global Networks." MSST2006 builds on previous conferences, and research and developments in access, scalability, inter-operability, and long-term stewardship of globally distributed storage, to investigate the concept of the Global Storage Grid. The Global Storage Grid will provide high-speed secure access to data on open global networks, with access and performance characteristics of local data, while also providing redundancy, backup, and reliability. The Global Storage Grid will emerge from developments in storage technologies, high-speed global networks, and data management and access software. Thirty-five papers dealing with various facets of the theme are included in this volume.

This series of NASA conferences began in July 1991, when the NSSDC Conference on Mass Storage Systems and Technologies for Space and Earth Science Applications was held at the Goddard Space Flight Center, in Greenbelt MD. This was followed by the NASA Goddard Conference on Mass Storage Systems and Technologies in September 1992, also held in Greenbelt, MD. The Third Conference was held in October 1993, then the Fourth Conference in March 1995, and the Fifth Conference in September 1996.

In March 1998, the Sixth NASA Goddard Conference was then held in cooperation with the Fifteenth IEEE Symposium on Mass Storage Systems, a series of conferences that had been ongoing since 1974 when the First IEEE Mass Storage Workshop was held in Washington DC. Since then, NASA and IEEE have cooperated in holding the conferences on a yearly basis.

Our thanks go to the IEEE Computer Society for many years of friendly and fruitful interactions, and to NASA for making these conferences possible. In particular we thank the Earth Science Data Information Systems Project (ESDIS) for many years of support, including support for the publication of these proceedings, and the National Space Science Data Center (NSSDC) for initiating these series of conferences in 1991, and for providing support for MSST2006. The support of Dr. Ed Grayzeck of the NSSDC is gratefully acknowledged.

Our thanks also go to the researchers, authors, and Program Committee members for their zeal and energy in putting together an interesting agenda.

Ben Kobler  
NASA Goddard Space Flight Center  
Conference and Program Committee Chair

P C Hariharan  
Stem International, Inc  
Publications Chair