Welcome to the 11th IEEE International Symposium on Network Computing and Applications (IEEE NCA12) to be held in Boston MA, August 23-25, 2012 under the auspices of the IEEE Computer Society sponsorship. The IEEE Technical Committee on Distributed Processing is responsible for initiating and steering this series of conferences.

It is a pleasure to welcome all of the attendees, authors, invited speakers, and guests. I hope that you will have a memorable and stimulating time at this conference in the excellent facilities of Hotel Marlowe and the universities of the Cambridge area.

Cloud computing is considered by many to be a fundamental transformational processing technology of the 21st century. Cloud computing is impacting societies, governments, and organizations with unparalleled processing and data storage technology needs to support a wide variety of applications that could not be envisioned just a short few years ago. As cloud computing technology advances from traditional processing and data storage service, we are seeing new and unique applications for cloud computing and networking emerge in many domains. These include transportation, wireless and mobile computing, real time sensor networks, and “green” or energy aware computing. Although clouds were initially developed by the IT industry, they clearly have important implications for the computer science research community. Clouds are already providing a massively distributed computing paradigm for a variety of challenging scientific problems, and papers in this meeting cover studies of which applications are suitable. As the cloud computing model becomes more entrenched in our society, significant challenges in security, real time computing, language, energy aware computing and architecture topics will need to addressed at both the cloud level and for clouds as part of a sustainable economy.

This conference is focused on applications of cloud computing and networks from preeminent researchers in the fields of distributed processing and networks. The large number and excellent quality of the submitted papers testify to the vitality of the cloud computing research area. NCA12 accepted 23 full papers out of 78 full papers for an acceptance rate 29%.

The success of an international conference, like this one, requires the dedications and contributions of many volunteers and staff support. We would like to take this opportunity to express our deep appreciation of the efforts of the program committee who provided the technical reviews and necessary discussions for the submitted papers. We would also like to gratefully acknowledge the IEEE Computer Society as our conference sponsor and its staff for their strong support.
We trust that you will enjoy this unique and attractive program. We look forward to seeing you at the IEEE NCA12 in Boston.

_Sincerely and Best Wishes_

Dimiter Avresky  
_NCA Steering Committee Chair_

Carl Elks  
_Program Chair of NCA12_

Hermann Hellwagner  
_Program Co-Chair of NCA12_

Sean Geoghegan  
_General and Financial Chair of NCA12_

Paolo Gasti  
_Publications Chair of NCA12_