Message from the *General Chairs*

Most challenging issues in the new emergent domains, including cyber physical systems, cloud computing or the smart grid, are brought in by their distributed nature. Their development under the assumptions of predictable execution platforms does not allow to build usable solutions in the practical domain. Therefore, those characteristics of the networks, distribution and software technologies that constitute a source of unpredictability must be taken into consideration to derive the actual systems.

Given the complexity and scale of the current and upcoming applications, from its first edition REACTION seeks for solutions to enable the design and practical development of next geration systems that are intensive in the use of distribution technologies and that require predictable behavior.

The germ of the first edition of the REACTION workshop back in 2012 was the idea of providing a forum for presenting novel contributions that would merge real-time with the new computing paradigms and emerging applications, focusing on their distributed properties and enabling technologies. In the second edition, REACTION 2013 persisted in the aim of bringing together researchers from the real-time and the distributed systems communities to cross fertilize and provide fresh and novel approaches to deliver new and efficient solutions.

In the present edition, the 3rd REACTION 2014 workshop continues with its exploratory approach compiling a number of contributions with a combination of practice and theory on various aspects that enable the integration of real-time support in the new computation paradigms and emerging applications.

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