Preface

As data and knowledge volume keep increasing while global means for information dissemination continue to diversify, new methods, modeling paradigms, and structures are needed to efficiently mount scalability requirements. In the recent years, we have seen the proliferation of the use of heterogeneous distributed systems, ranging from simple Networks of Workstations, to highly complex grid computing environments. Such computational paradigms have been preferred due to their reduced costs and inherent scalability, which pose many challenges to scalable systems and applications in terms of information access, storage, and retrieval. Grid computing, P2P technology, data and knowledge bases, distributed information retrieval technology, and networking technology should all converge to address the scalability concern. Furthermore, with the advent of emerging computing architectures (e.g., SMTs, GPUs, and Multicores) the importance of designing techniques explicitly targeting these systems is becoming more and more important. The 5th International Conference on Scalable Information Systems will focus on a wide array of scalability issues and investigate new approaches to tackle problems arising from the ever-growing size and complexity of information of all kinds.

Particularly, in the era of big data, the scalability of information systems has been the most important issue. The aim of this conference is to provide an internationally respected forum for scientific research in the computer-based methods of collective intelligence and their applications in (but not limited to) such fields as Scalable Processing (and Architecture) for Big Data and Scalable Systems and Conceptual Modeling.

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