After the successful Sixth edition in 2011, the seventh edition of the Enterprise Integration, Interoperability and Networking workshop (EI2N2012) has been organised as part of the OTM2012 Federated Conferences and is co-sponsored by the IFAC Technical Committee 5.3 Enterprise Integration and Networking, the IFIP TC 8 WG 8.1 Design and Evaluation of Information Systems, the SIG INTEROP Grande-Region on Enterprise Systems Interoperability, the SIG INTEROP-VLab.IT on Enterprise Interoperability and the French CNRS National Research Group GDR MACS.

Collaboration is necessary for enterprises to prosper in the current extreme dynamic and heterogeneous business environment. Enterprise integration, interoperability and networking are the major disciplines that have studied how to do companies to collaborate and communicate in the most effective way. These disciplines are well-established and are supported by international conferences, initiatives, groups, task forces and governmental projects all over the world where different domains of knowledge have been considered from different points of views and a variety of objectives (e.g., technological or managerial). Enterprise Integration involves breaking down organizational barriers to improve synergy within the enterprise so that business goals are achieved in a more productive and efficient way. The past decade of enterprise integration research and industrial implementation has seen the emergence of important new areas, such as research into interoperability and networking, which involve breaking down organizational barriers to improve synergy within the enterprise and among enterprises. The ambition to achieve dynamic, efficient and effective cooperation of enterprises within networks of companies, or in an entire industry sector, requires the improvement of existing, or the development of new theories and technologies. Enterprise Modelling, Architectures, and Semantic Interoperability principles are the some of the essential pillars supporting the achievement of Enterprise Integration and Interoperability. The Internet of Things and Cloud Computing now present new opportunities for realising inter-enterprise and intra-enterprise integration. For these reasons, the workshops objective was to foster discussions among researchers active in these related disciplines with a view towards exploring new research paths within the enterprise integration community. After rigorous peer reviews, 8 papers have been accepted out of a total of 19 submissions to this workshop.

This year, our discussions focused around the themes of ”Enterprise Interoperability and Sustainability and on the future for Internet-of-Things and Enterprise Sensing as it applies to emerging engineering practices. The outcomes of these respective discussions are reported during a plenary session jointly organized with the CoopIS2012 and the OTM Industry Case Studies Program 2012, in order to share the vision for future research with other conference attendees. The papers published in this volume of proceedings present samples of current research in the enterprise modelling, systems interoperability, services...
management, cloud integration and, more globally, systems engineering and enterprise architecture domains. Recent frameworks, architectures and principles that have gained currency in the recent past include semantic frameworks, service oriented architectures, virtual engineering and cloud computing principles; they hold the potential to play a vital role in the realization of interoperable, networked and collaborative enterprises.

It has been a great pleasure to work with the members of the international programme committee who played a valuable role in reviewing the submitted papers. We thank them for their dedication and interest.

We would like to take this opportunity to thank all authors for their contributions to the workshop objectives and discussions.

July 2012

Herv Panetto
Lawrence Whitman
Michele Dassisti
J. Cecil
Jinwoo Park