

Preface

This book provides an interdisciplinary collaboration in which scientists and professionals can share their research results. It brings also new challenges of insights into the fields of Modern Information Engineering Concepts and Communication Systems.

The selected papers involve great efforts to develop efficient techniques and tools for emerging areas related to Modern Information Engineering and Communication Systems. It also report new solutions for deployment, manipulation and exploitation of the advanced systems in Information Technology.

This book brings together the investigation result of researchers and practitioners from academia and industry to share novel ideas, results, experiences and work-in-process for establishing new collaborations in these areas.

It can be categorized by the involvement of five domains of treatment and management of information technology:

Advances in Software Engineering. The objective of this part is to communicate recent and projected advances in computer-based engineering techniques. This part cover the development and maintenance of software engineering to satisfy customer requirements on reliably and efficiently.

Advances in Web Technologies, Semantics, and Future Internet. This includes semantic Web and big data, semantic Web and conceptual knowledge representation, Web semantics and conceptual modeling, ontology engineering, learning and ontology evolution, semantic Web, information extraction, automatic, and semiautomatic generation of metadata, semantics for ubiquitous and cloud computing.

Advances Networking and Sensor Networks. This part is intended to discuss recent advances in the broad and quickly evolving fields of communication networks, and to highlight key issues and develop visions for networks of the future comprising sensors, actuators, mobile systems, and communicating objects.

Cloud, Parallel, Distributed, and High-Performance Computing. This part presents the latest fundamental advanced research result of cloud computing and identifies the emerging research topics related to distributed system and high-performance computing.

IR, Big Data, Business Intelligence, and Knowledge Management. This includes domain-driven data mining, postprocessing rules for actions, domain-driven customer analytics, big data, information retrieval, roles of human intelligence in AKD, maximal pattern-based cluster, and ontology mining.

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