

Preface

The 19th edition of the International Conference on Business Information Systems was held in Leipzig, Germany. Since its first edition in 1997, the BIS conference has become a well-respected event and has gathered a wide and active community of researchers and business practitioners.

The BIS conference follows trends in academic and business research. Since there is much interest in Big and Smart Data research, we decided to further discuss this topic. Thus the theme of the BIS 2016 conference was “Smart Business Ecosystems.” This recognizes that no business is an island and competition is increasingly taking place between business networks and no longer between individual companies. Information technology has been an important enabler with systems for enterprise resource planning, business intelligence, or business process management. Driven by new Internet-based technologies, such as cloud, mobile, social, and ubiquitous computing as well as analytics and big data, so-called smart infrastructures are emerging. From the business side, they are conducive to new, more dynamic relationships between companies, suppliers, and customers, which are referred to as ecosystems. Resources are crowd-sourced as services via platforms that yield new business knowledge and business processes. A variety of aspects are relevant for designing and understanding smart business ecosystems. They span from new business models, value chains, and processes to all aspects of analytical, social, and enterprise applications and platforms as well as cyber-physical infrastructures.

The first part of the BIS 2016 proceedings is dedicated to ecosystems research. It is closely related to the next two chapters: “Smart Infrastructure” and “Big/Smart Data.” However, during the conference other research directions were also discussed, including process management, business and enterprise modeling, service science, social media as well as applications of the newest research trends in various domains.

The Program Committee consisted of 110 members who carefully evaluated all the submitted papers. Based on their extensive reviews, a set of 34 papers were selected.

We would like to thank everyone who has helped build an active community around BIS. First of all, the reviewers for their time, effort, and insightful comments. We wish to thank all the keynote speakers, who delivered enlightening and interesting speeches. Last but not least, we would like to thank all the authors who submitted their papers.

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