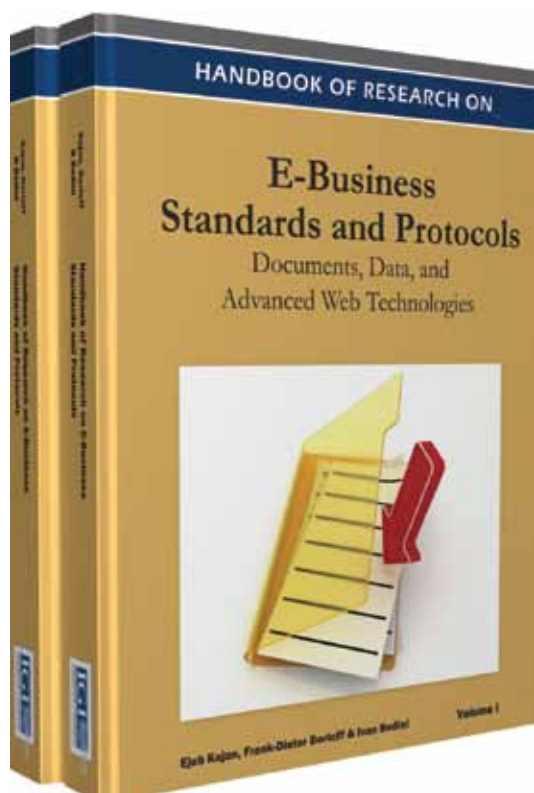


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Released: February 2012

## Handbook of Research on E-Business Standards and Protocols: Documents, Data and Advanced Web Technologies



Ejub Kajan (State University of Novi Pazar, Serbia),  
Frank-Dieter Dorloff (University of Duisburg-Essen, Germany)  
and Ivan Bedini (Alcatel Lucent, Bell Labs, Ireland)

Electronic business is a major force shaping the digital world. Yet, despite of years of research and standardization efforts, many problems persist that prevent e-business from achieving its full potential. Problems arise from different data vocabularies, classification schemas, document names, structures, exchange formats and their varying roles in business processes. Non-standardized business terminology, lack of common acceptable and understandable processes (grammar), and lack of common dialog rules (protocols) create barriers to improving electronic business processes.

**Handbook of Research on E-Business Standards and Protocols: Documents, Data and Advanced Web Technologies** contains an overview of new achievements in the field of e-business standards and protocols, offers in-depth analysis of and research on the development and deployment of cutting-edge applications, and provides insight into future trends. This book unites new research that promotes harmony and agreement in business processes and attempts to choreograph business protocols and orchestrate semantic alignment between their vocabularies and grammar. Additionally, this Handbook of Research discusses new approaches to improving standards and protocols, which include the use of intelligent agents and Semantic Web technology.

### Topics Covered:

- Competitive Advantage
- Data Mashups
- Enterprise Interoperability
- Integrated Enterprises
- Interoperability of E-Business Documents
- Quality of Electronic Services
- Semantic Alignment of E-Business Standards
- Semantic Graphs
- Semantic Verification of Process Models
- Semantic Web Technologies

ISBN: 9781466601468; © 2012; 1184 pp.

Print: US \$470.00 | Perpetual: US \$705.00 | Print + Perpetual: US \$940.00

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**Ejub Kajan** teaches at the State University of Novi Pazar and at the Faculty of Electronic Engineering in Niš, Serbia. He holds a PhD and MSc in Computer Science from University of Niš, Serbia, and diploma degree in Electronic Engineering from University of Split, Croatia. His current research focuses on e-commerce in general, e-commerce architectures, semantic interoperability, computer networks, and open systems. He has authored over seventy papers, four research books, three chapters in edited books, and four textbooks. He has published in various outlets, including CACM, JGITM, IGI Global books, ACM SIGEcom Exchanges, International Review on Computers and Software, Automatika, etc. He is a Senior Member of the ACM, and a member of IEEE, IADIS, and ISOC. Dr. Kajan is involved in a series of international conferences as a program committee member including, but not limited to prestigious DEXA, WSKS, and IADIS conferences. He also serves on the editorial boards of *International Journal of Distributed Systems and Technologies (IJ DST)* and *Journal of Information, Information Technology and Organization (JIITO)*. In the past, he worked as a software engineer and general manager in the computer industry.



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