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Nota di contenuto	Big and Smart Data -- A Parallel Approach for Decision Trees Learning from Big Data Streams -- Industry 4.0 - Potentials for Creating Smart Products: Empirical Research Results -- Evaluating New Approaches of Big Data Analytics Frameworks -- Automated Equation Formulation for Causal Loop Diagrams -- An Empirical Study on Spreadsheet Shortcomings from an Information Systems Perspective -- A Mark Based-Temporal Conceptual Graphs for Enhancing Big Data Management and Attack Scenario Reconstruction -- Semantic Technologies -- Ontology-Based Creation of 3D Content in a Service-Oriented Environment -- Modeling and Querying Sensor Services Using Ontologies -- Validation and Calibration of Dietary Intake in Chronic

Kidney Disease: An Ontological Approach -- Content Retrieval and Filtering -- Evaluation of the Dynamic Construct Competition Miner for an eHealth System -- Dynamic Reconfiguration of Composite Convergent Services Supported by Multimodal Search -- On Extracting Information from Semi-structured Deep Web Documents -- A Novel Approach to Web Information Extraction -- Business Process Management and Mining -- Mining Multi-variant Process Models from Low-Level Logs -- On Improving the Maintainability of Compliance Rules for Business Processes -- Evolutionary Computation Based Discovery of Hierarchical Business Process Models -- Collaboration -- Empowering End-Users to Collaboratively Structure Processes for Knowledge Work -- Social Collaboration Solutions as a Catalyst of Consumer Trust in Service Management Platforms - A Research Study -- The Relative Advantage of Collaborative Virtual Environments and Two-Dimensional Websites in Multichannel Retail -- Enterprise Architecture and Business-IT-Alignment -- Combining Business Processes and Cloud Services: A Marketplace for Processlets -- The Nature and a Process for Development of Enterprise Architecture Principles -- Interrelations Between Enterprise Modeling Focal Areas and Business and IT Alignment Domains -- Specific BIS Applications -- Multi-dimensional Performance Measurement in Complex Networks – Model and Integration for Logistics Chain Management -- Engaging Facebook Users in Brand Pages: Different Posts of Marketing-Mix Information -- Context Variation for Service Self-contextualization in Cyber-Physical Systems -- EPOs, an Early Warning System for Post-merger IS Integration -- Open Data for BIS -- The Adoption of Open Data and Open API Telecommunication Functions by Software Developers -- The Use of Open API in Travel Planning Application – Tap&Plan Use Case.

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#### Sommario/riassunto

This book contains the refereed proceedings of the 18th International Conference on Business Information Systems, BIS 2015, held in Pozna, Poland, in June 2015. The BIS conference series follows trends in academic and business research; thus, the theme of the BIS 2015 conference was "Making Big Data Smarter." Big data is now a fairly mature concept, recognized and widely used by professionals in both research and industry. Together, they work on developing more adequate and efficient tools for data processing and analyzing, thus turning "big data" into "smart data." The 26 revised full papers were carefully reviewed and selected from 70 submissions. In addition, two invited papers are included in this book. They are grouped into sections on big and smart data, semantic technologies, content retrieval and filtering, business process management and mining, collaboration, enterprise architecture and businessIT alignment, specific BIS applications, and open data for BIS.

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