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Nota di contenuto	Ontology-Based Context-Aware Indexing and Retrieval for Cognitive Sys-tems using SOEKS and DDNA -- Designing Information Integrating Systems Based on Co-Shared Ontologies -- The Meaning of Solution Space Modelling and Knowledge-Based Product Configurators for Smart Service Systems -- Architecture for Distributed Explorable HMD-based Virtual Reality Environ-ments -- Evolutionary approach based on the Ising model to analyze changes in the structure of the IT networks -- Models and Method for Estimate the Information-Time Characteristics of Real-Time Control System -- A Large-scale Customer-Facility Network Model for Customer Service Centre Location Applications.
Sommario/riassunto	This three-volume book highlights significant advances in the development of new information systems technologies and architectures. Further, it helps readers solve specific research and analytical problems and glean useful knowledge and business value

from data. Each chapter provides an analysis of a specific technical problem, followed by a numerical analysis, simulation, and implementation of the solution to the real-world problem. Managing an organization, especially in today's rapidly changing environment, is a highly complex process. Increased competition in the marketplace, especially as a result of the massive and successful entry of foreign businesses into domestic markets, changes in consumer behaviour, and broader access to new technologies and information, calls for organisational restructuring and the introduction and modification of management methods using the latest scientific advances. This situation has prompted various decision-making bodies to introduce computer modelling of organization management systems. This book presents the peer-reviewed proceedings of the 40th Anniversary International Conference "Information Systems Architecture and Technology" (ISAT), held on September 15–17, 2019, in Wrocaw, Poland. The conference was organised by the Computer Science Department, Faculty of Computer Science and Management, Wroclaw University of Sciences and Technology, and University of Applied Sciences in Nysa, Poland. The papers have been grouped into three major sections: Part I—discusses topics including, but not limited to, artificial intelligence methods, knowledge discovery and data mining, big data, knowledge-based management, Internet of Things, cloud computing and high-performance computing, distributed computer systems, content delivery networks, and service-oriented computing. Part II—addresses various topics, such as system modelling for control, recognition and decision support, mathematical modelling in computer system design, service-oriented systems, and cloud computing, and complex process modelling. Part III—focuses on a number of themes, like knowledge-based management, modelling of financial and investment decisions, modelling of managerial decisions, production systems management, and maintenance, risk management, small business management, and theories and models of innovation.
