

3GE COLLECTION ON COMPUTER SCIENCE



Intelligent Information Management



3G E-LEARNING

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INTELLIGENT INFORMATION MANAGEMENT



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Intelligent Information Management

Effective customer engagement, business operations, and compliance all rely on one thing: effective information management. Intelligent Information Management means that new world is all about Data AND Content, not Data OR Content. If this dichotomy ever made sense, it makes less and less as time goes on. The kinds of customer-centric problems that must be solved require competencies and technologies from BOTH the data management and content management worlds. Information management involves all areas of business and it's essential that marketers, IT people and other stakeholders understand it. Intelligent information management and a better alignment of business – including the CMO and CIO in a digital transformation context – with a focus on consistency, availability, intelligence and the customer experience, is where the real work needs to be done, beyond and through the silos. This is the age of digital business, connected in all possible ways and with new ways of using, capturing and managing information as the contextual differentiator.

The book focuses on new trends in intelligent information and database systems and discusses topics addressed to the foundations and principles of data, information, and knowledge models, methodologies for intelligent information.

The development of Information Systems has arisen as one of the most important areas in computing systems. Since their very beginning in the middle of the twentieth century, computers have been mainly used to store, manage, and retrieve data and they have become priceless tools for this task. However, when the amount of data managed by information systems becomes huge, the use of semantic techniques to ease the access of people to big amounts of data is mandatory. Implementing such intelligent information systems involves numerous problems, a lot of which have already been solved in principle or exemplary for selected tasks. However, the corresponding solutions are mostly developed by different research communities that only have a restricted exchange/communication with one another. Nevertheless, past experience has proven that achieving major progress for fields like the implementation of intelligent information systems requires integrating methods and techniques from different disciplines.

This book explores various aspects of design and development of intelligent technologies by bringing together the latest developments in the fields of information systems, intelligent agents, collaborative works and much more. The book discusses the theories required to help and provide solutions to difficult problems in the construction of intelligent systems.



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