

1. Record Nr.	UNINA9910208952003321
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Titolo	Cognitive computing and big data analytics // Judith Hurwitz, Marcia Kaufman, Adrian Bowles
Pubbl/distr/stampa	Indianapolis, Indiana : , : Wiley, , 2015 ©2015
ISBN	1-118-89678-5 1-119-18364-2 1-118-89663-7
Edizione	[1st edition]
Descrizione fisica	1 online resource (256 p.)
Disciplina	006.33
Soggetti	Expert systems (Computer science) Big data Artificial intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	The foundation of cognitive computing -- Design principles for cognitive systems -- Natural language processing in support of a cognitive system -- The relationship between big data and cognitive computing -- Representing knowledge in taxonomies and ontologies -- Applying advanced analytics to cognitive computing -- The role of cloud and distributed computing in cognitive computing -- The business implications of cognitive computing -- IBM's Watson as a cognitive system -- The process of building a cognitive application -- Building a cognitive healthcare application -- Smarter cities : cognitive computing in government -- Emerging cognitive computing areas -- Future applications for cognitive computing.
Sommario/riassunto	A comprehensive guide to learning technologies that unlock the value in big data Cognitive Computing provides detailed guidance toward building a new class of systems that learn from experience and derive insights to unlock the value of big data. This book helps technologists understand cognitive computing's underlying technologies, from knowledge representation techniques and natural language processing algorithms to dynamic learning approaches based on accumulated

evidence, rather than reprogramming. Detailed case examples from the financial, healthcare, and manufacturing walk readers step-by-step through the design and testing of cognitive systems, and expert perspectives from organizations such as Cleveland Clinic, Memorial Sloan-Kettering, as well as commercial vendors that are creating solutions. These organizations provide insight into the real-world implementation of cognitive computing systems. The IBM Watson cognitive computing platform is described in a detailed chapter because of its significance in helping to define this emerging market. In addition, the book includes implementations of emerging projects from Qualcomm, Hitachi, Google and Amazon. Today's cognitive computing solutions build on established concepts from artificial intelligence, natural language processing, ontologies, and leverage advances in big data management and analytics. They foreshadow an intelligent infrastructure that enables a new generation of customer and context-aware smart applications in all industries. Cognitive Computing is a comprehensive guide to the subject, providing both the theoretical and practical guidance technologists need. Discover how cognitive computing evolved from promise to reality Learn the elements that make up a cognitive computing system Understand the groundbreaking hardware and software technologies behind cognitive computing Learn to evaluate your own application portfolio to find the best candidates for pilot projects Leverage cognitive computing capabilities to transform the organization Cognitive systems are rightly being hailed as the new era of computing. Learn how these technologies enable emerging firms to compete with entrenched giants, and forward-thinking established firms to disrupt their industries. Professionals who currently work with big data and analytics will see how cognitive computing builds on their foundation, and creates new opportunities. Cognitive Computing provides complete guidance to this new level o...

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