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Titolo	Designing Smart Homes [[electronic resource]] : The Role of Artificial Intelligence // edited by Juan Carlos Augusto, Chris D. Nugent
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Collana	Lecture Notes in Artificial Intelligence ; ; 4008
Disciplina	006.3 643.6
Soggetti	Artificial intelligence Application software Information storage and retrieval Computers and civilization Management information systems Computer science Artificial Intelligence Information Systems Applications (incl. Internet) Information Storage and Retrieval Computer Appl. in Social and Behavioral Sciences Computers and Society Management of Computing and Information Systems
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Smart Homes Can Be Smarter -- Spatiotemporal Reasoning for Smart Homes -- Temporal Constraints with Multiple Granularities in Smart Homes -- Causal Reasoning for Alert Generation in Smart Homes -- Plans and Planning in Smart Homes -- Temporal Data Mining for Smart Homes -- Cases, Context, and Comfort: Opportunities for Case-Based Reasoning in Smart Homes -- Application of Decision Trees to Smart Homes -- Artificial Neural Networks in Smart Homes -- A Multi-agent Approach to Controlling a Smart Environment.
Sommario/riassunto	The area of smart homes is fast developing as an emergent area which

attracts the synergy of several areas of science. This volume offers a collection of contributions addressing how artificial intelligence (AI), one of the core areas of computer science, can bring the growing area of smart homes to a higher level of functionality where homes can truly realize the long standing dream of proactively helping their inhabitants in an intelligent way. After an introductory section to describe a smart home scenario and to provide some basic terminology, the following 9 sections turn special attention to a particular exemplar application scenario (provision of healthcare and safety related services to increase the quality of life) exploring the application of specific areas of AI to this scenario.
