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Autore	Norris Donald J
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Descrizione fisica	1 online resource (369 pages) : illustrations
Collana	Technology In Action
Disciplina	006.3
Soggetti	Artificial intelligence Computer hardware Python (Computer program language) Artificial Intelligence Computer Hardware Python
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Chapter 1: Introduction to Artificial Intelligence (AI) -- Chapter 2: Basic AI Concepts -- Chapter 3: Expert System Demonstrations -- Chapter 4: Games -- Chapter 5: Fuzzy Logic Systems -- Chapter 6: Machine Learning -- Chapter 7: Machine Learning - Artificial Neural Networks -- Chapter 8: Machine Learning - Deep Learning -- Chapter 9: Machine learning - Practical ANN Demonstration -- Chapter 10: Evolutionary Computing -- Chapter 11: Behavior-Based Robotics -- Appendix A: Build Instructions for the Alfie Robot Car.
Sommario/riassunto	Gain a gentle introduction to the world of Artificial Intelligence (AI) using the Raspberry Pi as the computing platform. Most of the major AI topics will be explored, including expert systems, machine learning both shallow and deep, fuzzy logic control, and more! AI in action will be demonstrated using the Python language on the Raspberry Pi. The Prolog language will also be introduced and used to demonstrate fundamental AI concepts. In addition, the Wolfram language will be used as part of the deep machine learning demonstrations. A series of projects will walk you through how to implement AI concepts with the Raspberry Pi. Minimal expense is needed for the projects as only a few

sensors and actuators will be required. Beginners and hobbyists can jump right in to creating AI projects with the Raspberry PI using this book.