1. **Record Nr.**   UNINA9910324957303321

   Autore   Harrison Sheldon P. <1947->

   Titolo   Mokilese-English dictionary / / Sheldon P. Harrison, Salich Albert

   Pubbl/distr/stampa   Honolulu, Hawaii : , : University Press of Hawaii, , 2019

   ©1977

   ISBN   0-8248-8209-1

   0-8248-8210-5

   Descrizione fisica   1 online resource (xvii, 165 pages)

   Collana   PALI Language Texts. Micronesia

   Disciplina   499.5

   Soggetti   Mokilese language - English

   English language - Mokilese

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

2. Record Nr.	UNINA9911047796103321
Autore	Guo Di
Titolo	Multi-Modal Robotic Intelligence : An Active Perception Approach / / by Di Guo, Huaping Liu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	981-9530-44-X
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (265 pages)
Collana	Artificial Intelligence: Foundations, Theory, and Algorithms, , 2365-306X
Disciplina	629.892
Soggetti	Robotics
	Image processing - Digital techniques
	Computer vision
	Machine learning
	Computer Imaging, Vision, Pattern Recognition and Graphics
	Machine Learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I. Core Concepts and Approaches -- Chapter 1. Introduction to Active Perception -- Chapter 2. Deep Neural Networks Fundamentals -- Chapter 3. Action Learning Fundamentals -- Part II. Active Perception for Robotic Intelligence -- Chapter 4. Active Visual Object Discovery -- Chapter 5. Active Visual Scene Understanding -- Chapter 6. Active Exploration for Robotic Manipulation -- Chapter 7. Active Auditory Recognition -- Part III. Multi-Modal Active Perception for Robotic Intelligence -- Chapter 8. Visual-Guided Active Tactile Recognition -- Chapter 9. Sound-Indicated Active Object Detection -- Chapter 10. Multi-Modal Active Perception for Material Recognition -- Chapter 11. A Multisensory Active Perception Approach for Robotic Manipulation -- Chapter 12. Conclusion.
Sommario/riassunto	Recently, substantial progress has been made in the machine perception, particularly computer vision, largely due to the advancements in deep learning techniques. However, robots often operate in unstructured environments, which differ greatly from the well-defined problems typically addressed in computer vision.

Consequently, many existing computer vision solutions are not directly applicable to robotics. Additionally, modern intelligent robots have access to multi-modal sensory information, rather than relying on a single modality. Therefore, it is essential to explore the specific challenges of multi-modal robotic intelligence. A key requirement for all intelligent robots is the capability of active perception. Active perception is an effective approach to bridge the gap between robotics and machine perception. Intelligence emerges when the robot actively interacts with the environment, embodying a close coupling of perception and action within a continuous feedback loop. Perception guided action, and each movement generate information that informs subsequent movements. With a variety of available multi-modal sensory information, it is crucial for robots to leverage active perception techniques to achieve multi-modal robotic intelligence. This book introduces multi-modal robotic intelligence from the perspective of active perception. Extensive robotic multi-modal active perception problems are formulated and corresponding case studies are described. Specifically, this book is organized in three parts. Part I covers core concepts and approaches for multi-modal robotic intelligence. In Part II, active perception for robotic intelligence is described, which presents several typical active perception tasks. Part III further describes the multi-modal active perception for robotic intelligence. The book is primarily intended for researchers and graduates with a foundational knowledge of machine learning, spanning in a wide range of disciplines, particularly those involved in robotic intelligence and sensor fusion.