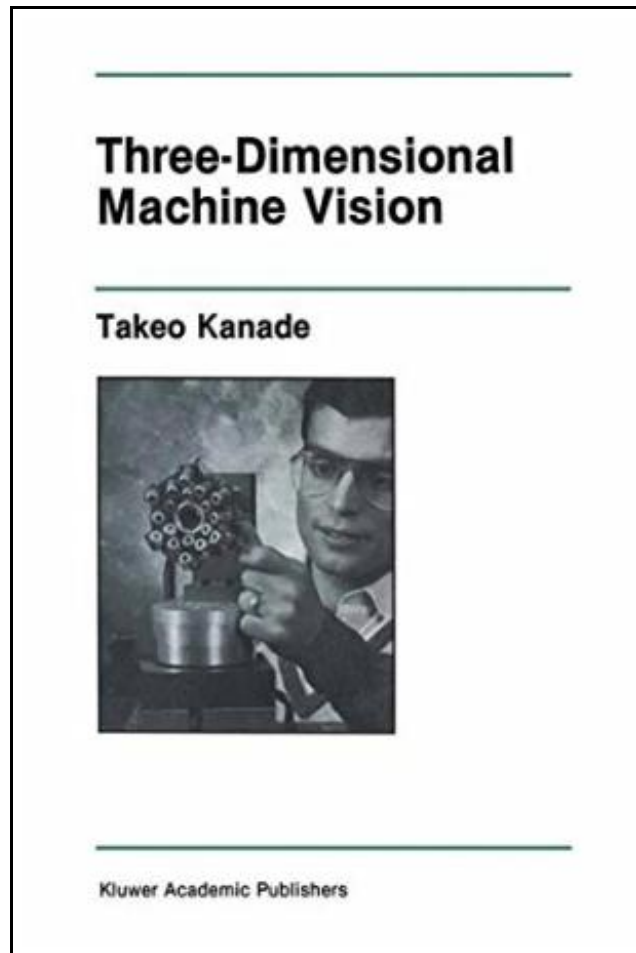


Three-dimensional Machine Vision (Hardback)



Filesize: 6.79 MB

Reviews

Definitely among the best book I have possibly read. I have study and i am sure that i will going to go through once more once more later on. Your lifestyle span is going to be convert when you full looking at this publication.

(Prof. Damon Kautzer III)

THREE-DIMENSIONAL MACHINE VISION (HARDBACK)



To save **Three-dimensional Machine Vision (Hardback)** eBook, make sure you refer to the hyperlink beneath and download the file or get access to additional information which might be highly relevant to THREE-DIMENSIONAL MACHINE VISION (HARDBACK) ebook.

Kluwer Academic Publishers, United States, 1987. Hardback. Book Condition: New. 1987 ed.. 234 x 156 mm. Language: English . Brand New Book ***** Print on Demand *****.A robot must perceive the three-dimensional world if it is to be effective there. Yet recovering 3-D information from projected images is difficult, and still remains the subject of basic research. Alternatively, one can use sensors that can provide three-dimensional range information directly. The technique of projecting light-stripes started to be used in industrial object recognition systems as early as the 1970s, and time-of-flight laser-scanning range finders became available for outdoor mobile robot navigation in the mid-eighties. Once range data are obtained, a vision system must still describe the scene in terms of 3-D primitives such as edges, surfaces, and volumes, and recognize objects of interest. Today, the art of sensing, extracting features, and recognizing objects by means of three-dimensional range data is one of the most exciting research areas in computer vision. Three-Dimensional Machine Vision is a collection of papers dealing with three-dimensional range data. The authors are pioneering researchers: some are founders and others are bringing new excitement to the field. I have tried to select milestone papers, and my goal has been to make this book a reference work for researchers in three-dimensional vision. The book is organized into four parts: 3-D Sensors, 3-D Feature Extractions, Object Recognition Algorithms, and Systems and Applications. Part I includes four papers which describe the development of unique, capable 3-D range sensors, as well as discussions of optical, geometrical, electronic, and computational issues. Mundy and Porter describe a sensor system based on structured illumination for inspecting metallic castings. In order to achieve high-speed data acquisition, it uses multiple light-stripes with wavelength multiplexing. Case, Jalkio, and Kim also present a multi-stripe system and discuss various design issues in range sensing by triangulation. The numerical stereo camera developed by Altschuler, Bae, Altschuler, Djak, Tamburino, and Woolford projects space-coded grid patterns which are generated by an electro-optical programmable spatial light modulator. Kanade and Fuhrman present a proximity sensor using multiple LEDs which are conically arranged. It can measure both distance and orientation of an object's surface.



[Read Three-dimensional Machine Vision \(Hardback\) Online](#)



[Download PDF Three-dimensional Machine Vision \(Hardback\)](#)

Related Books



[PDF] I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book (Paperback)

Click the hyperlink below to get "I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book (Paperback)" PDF document.

[Save PDF »](#)



[PDF] Fox All Week: Level 3 (Paperback)

Click the hyperlink below to get "Fox All Week: Level 3 (Paperback)" PDF document.

[Save PDF »](#)



[PDF] Hope for Autism: 10 Practical Solutions to Everyday Challenges (Paperback)

Click the hyperlink below to get "Hope for Autism: 10 Practical Solutions to Everyday Challenges (Paperback)" PDF document.

[Save PDF »](#)



[PDF] Violin Concerto, Op.82: Study Score (Paperback)

Click the hyperlink below to get "Violin Concerto, Op.82: Study Score (Paperback)" PDF document.

[Save PDF »](#)



[PDF] Music for Children with Hearing Loss: A Resource for Parents and Teachers (Paperback)

Click the hyperlink below to get "Music for Children with Hearing Loss: A Resource for Parents and Teachers (Paperback)" PDF document.

[Save PDF »](#)



[PDF] The Adventures of a Plastic Bottle: A Story about Recycling (Paperback)

Click the hyperlink below to get "The Adventures of a Plastic Bottle: A Story about Recycling (Paperback)" PDF document.

[Save PDF »](#)