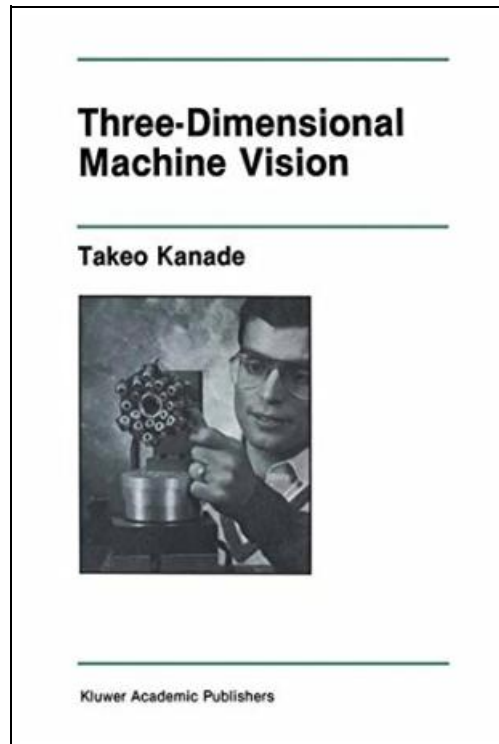


Three-dimensional Machine Vision (Hardback)



Filesize: 7.76 MB

Reviews

Extensive manual for publication fans. I have read through and so i am sure that i am going to going to read once again yet again in the future. I am pleased to let you know that this is actually the best pdf i actually have read through inside my very own existence and may be he very best publication for ever.

(Mrs. Trinity Boyer)

THREE-DIMENSIONAL MACHINE VISION (HARDBACK)

DOWNLOAD



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 a sensor 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, Djik, 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 \(Hardback\)](#)

You May Also Like



I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book

Heinemann Educational Books, United States, 2015. Paperback. Book Condition: New. 234 x 185 mm. Language: English . Brand New Book. It s vital that we support young children s reading in ways that nurture healthy...

[Read](#) [Document](#)

»



Fox All Week: Level 3

Penguin Putnam Inc, United States, 2004. Paperback. Book Condition: New. James Marshall (illustrator). Puffin Easy-To-Read ed.. 224 x 147 mm. Language: English . Brand New Book. Using their cache of already published easy-to-read books, Puffin...

[Read](#) [Document](#)

»



Hope for Autism: 10 Practical Solutions to Everyday Challenges

Seaborough Enterprises Publishing, United States, 2015. Paperback. Book Condition: New. Initial ed.. 203 x 127 mm. Language: English . Brand New Book ***** Print on Demand *****. Hope for Autism: 10 Practical Solutions to Everyday...

[Read](#) [Document](#)

»



Violin Concerto, Op.82: Study Score

Petrucci Library Press, United States, 2014. Paperback. Book Condition: New. Urtext ed.. 274 x 213 mm. Language: English . Brand New Book ***** Print on Demand *****.Premiered by the renowned violinist Leopold Auer in St....

[Read](#) [Document](#)

»



Music for Children with Hearing Loss: A Resource for Parents and Teachers

Oxford University Press Inc, United States, 2014. Paperback. Book Condition: New. 228 x 156 mm. Language: English . Brand New Book. Written by an expert in the field who is both a teacher and a...

[Read](#) [Document](#)

»