### Three-Dimensional Machine Vision

#### Takeo Kanade



Kluwer Academic Publishers

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# Three-dimensional Machine Vision (Hardback)

### By Takeo Kanade

Kluwer Academic Publishers, United States, 1987. Hardback. Book Condition: New. 1987 ed.. 234 x 156 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Arobotmustperceivethethreedimensionalworldifitistobeeffe ctive there. Yet recovering 3-D information from projected images is difficult, and still remains the subject of basic research. Alternatively, one can use sensorsthatcanprovidethree-dimensional range information directly. The technique of projecting light-stripes started to be used in industrialobject recognition systems asearly asthe 1970s, and time-offlight laser-scanning range finders became available for outdoor mobile robotnavigation 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, extractingfeatures, and recognizing objects by means of three-dimensional rangedataisoneofthemostexcitingresearchareasincomputervision. Three-Dimensional Machine Vision is a collection of papers dealing withthree-dimensionalrangedata.

Theauthorsarepioneeringresearchers: some are founders and others are bringingnew excitements in thefield. I have tried to select milestone papers, and my goalhas beento make this bookareferenceworkforresearchersinthree-dimensionalvision. The book is organized into four parts: 3-D Sensors, 3-D Feature Extractions,ObjectRecognitionAlgorithms,andSystemsandApplications. 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 asensor

### Reviews

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