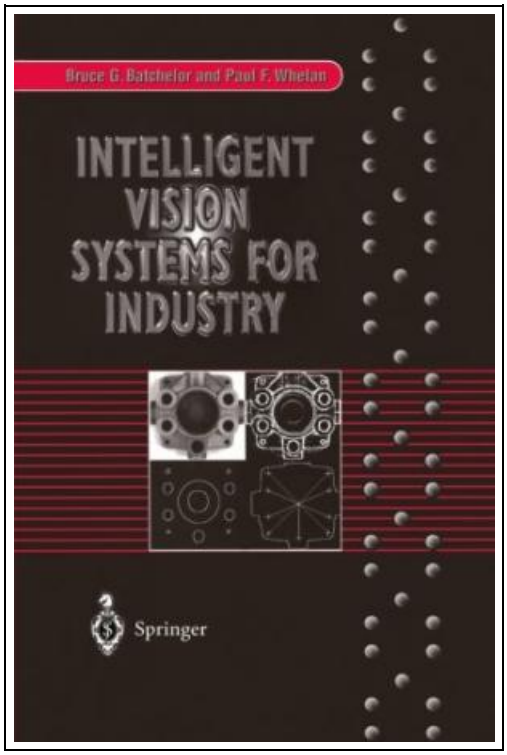
Intelligent Vision Systems for Industry



Filesize: 8.84 MB

Reviews

It is an incredible ebook that we actually have ever study. This is certainly for all those who statte that there had not been a worthy of looking at. I am just pleased to inform you that this is the very best publication i have got go through during my individual daily life and can be he best ebook for possibly.
(Clarabelle Marvin)

INTELLIGENT VISION SYSTEMS FOR INDUSTRY

Book Condition: New. Publisher/Verlag: Springer, Berlin | The application of intelligent imaging techniques to industrial vision problems is an evolving aspect of current machine vision research. Machine vision is a relatively new technology, more concerned with systems engineering than with computer science, and with much to offer the manufacturing industry in terms of improving efficiency, safety and product quality. Beginning with an introductory chapter on the basic concepts, the authors develop these ideas to describe intelligent imaging techniques for use in a new generation of industrial imaging systems. Sections cover the application of AI languages such as Prolog, the use of multi-media interfaces and multi-processor systems, external device control, and colour recognition. The text concludes with a discussion of several case studies that illustrate how intelligent machine vision techniques can be used in industrial applications. | 1 Basic Concepts.- 1.1 Industrial Vision Systems.- 1.1.1 Justification.- 1.1.2 Limitations of Present Systems.- 1.1.3 Flexible Manufacturing Systems.- 1.1.4 Process Control.- 1.2 Systems Engineering.- 1.2.1 Importance of Context.- 1.2.2 Industrial Examples.- 1.3 Intelligent Vision.- 1.3.1 Heuristics and Algorithms.- 1.3.2 Artificial Intelligence (AI) Languages.- 1.4 Book Outline.- 2 Basic Machine Vision Techniques.- 2.1 Representations of Images.- 2.2 Elementary Image Processing Functions.- 2.2.1 Monadic, Point-by-point Operators.- 2.2.2 Dyadic, Point-by-point Operators.- 2.2.3 Local Operators.- 2.2.4 Linear Local Operators.- 2.2.5 Non-linear Local Operators.- 2.2.6 N-tuple Operators.- 2.2.7 Edge Effects.- 2.2.8 Intensity Histogram.- 2.3 Binary Images.- 2.3.1 Measurements on Binary Images.- 2.3.2 Shape Descriptors.- 2.4 Binary Mathematical Morphology.- 2.4.1 Opening and Closing Operations.- 2.4.2 Structuring Element Decomposition.- 2.5 Grey Scale Morphology.- 2.6 Global Image Transforms.- 2.6.1 Hough Transform.- 2.6.2 Two-dimensional Discrete Fourier Transform.- 2.7 Texture Analysis.- 2.7.1 Statistical Approaches.- 2.7.2 Co-occurrence Matrix Approach.- 2.7.3 Structural Approaches.- 2.7.4 Morphological Texture Analysis.- 2.8 Implementation Considerations.- 2.8.1 Morphological System Implementation.- 2.9 Commercial Devices.- 2.9.1 Plug-in Boards: Frame-stores.- 2.9.2 Plug-in Boards: Dedicated Function.-...

Other eBooks

DK Readers Disasters at Sea Level 3 Reading Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.8in. x 5.7in. x 0.2in.From fog, ice, and rocks to cannon fire and torpedo attacks--read the story of five doomed sea voyages and the fate...

Save PDF

»

DK Readers Invaders From Outer Space Level 3 Reading Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 48 pages. Dimensions: 8.9in. x 5.9in. x 0.1in.Are aliens from other planets visiting Earth Read these amazing stories of alien encounters -- and make up your own mind!...

Save PDF

»

Tiger Tales DK Readers, Level 3 Reading Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 48 pages. Dimensions: 8.7in. x 5.7in. x 0.2in.Hunter or hunted How much longer will these magnificent beasts prowl the plant These stories will touch your heart. The 48-page...

Save PDF

»

DK Readers Plants Bite Back Level 3 Reading Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 48 pages. Dimensions: 9.0in. x 5.8in. x 0.2in.With Eyewitness Readers, children will learn to read --then read to learn! There are plants that prickle, sting, or even munch...

Save PDF

»

DK Readers Beastly Tales Level 3 Reading Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 48 pages. Dimensions: 8.8in. x 5.8in. x 0.2in.This Level 3 book is perfect for children who can read alone. Do these monsters really exist Read these amazing true...

Save PDF

»

Read Write Inc. Phonics: Blue Set 6 Non-Fiction 1 Save the Whale

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 185 x 72 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

Download ePub

»

Read Write Inc. Phonics: Green Set 1 Storybook 1 on the Bus

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 210 x 144 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Download ePub

»

Read Write Inc. Phonics: Grey Set 7 Non-Fiction 1 a Job for Jordan

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 207 x 164 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

Download ePub

»

Read Write Inc. Phonics: Green Set 1 Storybook 7 Chips

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 202 x 116 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Download ePub

»

Read Write Inc. Phonics: Green Set 1 Storybook 5 Black Hat Bob

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 209 x 113 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Download ePub

»