Intelligent Machine Vision

By Batchelor, Bruce / Waltz, Frederick

Book Condition: New. Publisher/Verlag: Springer, Berlin | Techniques, Implementations and Applications | A number of important aspects of intelligent machine vision in one volume, describing the state of the art and current developments in the field, including: fundamentals of 'intelligent'image processing for machine vision systems; algorithm optimisation; implementation in high-speed electronic digital hardware; implementation in an integrated high-level software environment and applications for industrial product quality and process control. Backed by numerous illustrations, created using the authors IP software, this book will be of interest to researchers in the field of machine vision wishing to understand the discipline and develop new techniques. Also useful for under- and postgraduates. | Machine Vision for Industrial Applications.- Basic Machine Vision Techniques.- Algorithms, Approximations and Heuristics.- Systems Engineering.- Algorithms and Architectures for Fast Execution.- SKIPSM - A Powerful Implementation Paradigm.- Adding Intelligence.- Vision Systems on the Internet.- Visual Programming for Machine Vision.- Applications Case Studies.- Final Remarks.- Appendix A - Programmable Color Filter.- Appendix B - A Brief Introduction to Prolog.- Appendix C - PIP Commands and their Implementation.- Index. 1 Machine vision for industrial applications.- 1.1 Natural and artificial vision.- 1.2 Artificial vision.- 1.3 Machine Vision is not Computer Vision.- 1.3.1 Applications.- 1.3.2...

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