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Yingquan Peng,Xinyong Dong

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Examining Optoelectronics in Machine Vision and Applications in Industry 4.0 Sergiyenko, Oleg,Rodriguez-Quiñonez, Julio C.,Flores-Fuentes, Wendy,2021-02-12 The research and exploitation of optoelectronic properties in the industrial branch of electronics is becoming more popular each day due to the important role they play in the development of a large variety of sensors devices and systems for identifying measuring and constructing While optoelectronics study the applications of electronic devices that source detect and transform light machine vision generates and detects light in order to provide imaging based automatic inspections and analysis for such applications as automatic object and environmental inspection process control and robot mobile machine guidance in industry Machine vision is less efficient without optoelectronics and thus it is important to investigate the theoretical approaches to different optoelectronic devices available for machine vision as well as current scanning technologies Examining Optoelectronics in Machine Vision and Applications in Industry 4 0 focuses on the examination of emerging technologies for the design fabrication and implementation of optoelectronic sensors devices and systems in a machine vision approach to support industrial commercial and scientific applications The book covers topics such as the design fabrication and implementation of sensors and devices as well as the development viewpoint of optoelectronic systems and artificial vision techniques using optoelectronic devices The interaction and informational communication between all these mentioned devices in the complex solution of the same task is the subject of modern challenges in Industry 4 0 Thus this book supports engineers technology developers academicians researchers and students who seek machine vision techniques for detection measurement and 3D reconstruction

Proceedings of 2019

International Conference on Optoelectronics and Measurement Yingquan Peng,Xinyong Dong,2021-03-15 This book presents high quality papers from the 2019 International Conference on Optoelectronics and Measurement ICOM2019 which was held on November 28 30 2019 in Hangzhou China It focuses on the latest developments in the fields of optics photonics optoelectronics sensors and related measurement technology Being closely related to either the key device technology or the important commercial applications topics of fiber optics photodetectors sensors and measurement technology are of particular interest for the readers The book contains the illustrations of advanced device technologies measurement principles as well as scientific and technological conclusions of the great reference value The readers will gain deep insight into the latest development in the related fields obtain important technical data and scientific conclusions and inspire new ideas for their research

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