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Computer Vision for Electronics Manufacturing (Paperback)

By L. F. Pau

Springer-Verlag New York Inc., United States, 2011. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.DEFECT PROPORTION OF DETECTION INITIAL RATE DETECTION RATE INSPECTOR 3 COMPLEXITY OF TIMES PAN OF PERFORMING $\sigma \sim \sigma \sim$ -; INSPECTION TASK -; VISUAL INSPECTION Figure 1. Trends in relations between the complexity of inspection tasks, defect detection rates (absolute and relative), and inspection time. Irrespective of the necessities described above, and with the exception of specific generic application systems (e.g., bare-board PCB inspection, wafer inspection, solder joint inspection, linewidth measurement), vision systems are still not found frequently in today's electronics factories. Besides cost, some major reasons for this absence are: 1. The detection robustness or accuracy is still insufficient. 2. The total inspection time is often too high, although this can frequently be attributed to mechanical handling or sensing. 3. There are persistent gaps among process engineers, CAD engineers, manufacturing engineers, test specialists, and computer vision specialists, as problems dominate the day-to-day interactions and prevent the establishment of trust. 4. Computer vision specialists sometimes still believe that their contributions are universal, so that adaptation to each real problem becomes tedious, or stumbles over the insufficient...



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