

## **ABSTRACT**

### **Possibilities of information-reconstruction of damaged barcode labels in the materials handling and logistic systems of intelligent manufacture**

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Information content of damaged barcodes can be reconstructed by various techniques at different levels. A conventional one-beam laser scanner can't cope with a damaged barcode. But the following question may arise: as the biggest part of the surface includes no damage, isn't the remaining information enough for the control system? This would make the above problems eliminated. It must be noted that there is short time between decoding and interaction into the system. The needed information for the control system must be reconstructed during this short time. This is the problem statement for our research. The dissertation finds solutions for the above problem from different aspects.