

# On-Stream Defect Detection of Metal Artifacts from Line CCD Image

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## **Abstract**

In this paper, we focus on a defect detection of a metal artifact which has cylinder shape and hair-line finished surface. It sometimes ruined by scratch and/or liquid spill in factory line. So we have to find them from line CCD scanned images. In this paper, we employ Support Vector Machines (SVM) as classifier and test several transformations of input images to set input vector. We also discuss tradeoff between detection accuracy and computation time.

## **Keywords**

Defect detection, Computer vision, Support vector machines, Independent components analysis

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