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NEW PROTOTYPE ARCHITECTURE FOR VISION AUTOMATED INSPECTION

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Abstract. The project proposes to accomplish new system architecture of real-time video inspection of textile materials, which should ensure a fault tracking-down rate of over 99%, in the presence of disturbing elements from the industrial environment. The inspection procedure stipulates that the system should learn the correct model of the textile material, so that it is able to notice the deviations that might appear during its inspection. The model changes are analyzed with the help of many detection algorithms to separate real flaws from normal variations, accepted in the material. After the detection, follows the localization of the flaw, settling the coordinates, its size and recording it in the flaw library..

Keywords: inspection system, flaw, detection algorithm, binary image