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RESEARCH ARTICLE

IMPLEMENTATION OF SPEED UP ROBUST FEATURE FOR DETECTION AND TRACKING OF INANIMATE OBJECTS

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Abstract— Object detection and tracking is one of the most researched areas in computer vision and is receiving a growing attention because of its wide area of applications which include surveillance, industrial inspection, robotics, mobiles, and 3D gaming among others. This paper focuses and presents the implementation of Speed Up Robust Feature in development of a Detection and Tracking System for inanimate objects. The system can detect an inanimate object from a still image containing many other objects which have been saved as data set as well as detect and track objects using webcam. The algorithm is developed in Microsoft Visual Basic 2010 express edition using Speed Up Robust Feature available in EmguCV libraries which are used for the image processing and computer vision tasks. A Logitech C310 High Definition webcam with 5 Mega Pixel is used for the purpose of real-time detection and tracking.

Keywords— Object detection, tracking; EmguCV; Speed Up Robust Feature (SURF); Images

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