Abstract

This work is part of a project dedicated to the development of a real-time multimodal biometric identification system. In this kind of applications, face detection is an important step before any identification process. This paper presents the development and the implementation of a dynamic face detector based on both skin color and motion detection techniques. Our choice will be guided by the computational complexity and timing constraints for a real-time processing on a low cost Virtex FPGA platform.

Index Terms

Computer Science
Pattern Recognition
Keywords
Motion detection – Skin color detection – Face tracking – Hardware implementation - FPGA