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A COMPARATIVE STUDY OF THEORIES AND HARDWARE IMPLEMENTATION APPROACHES OF MACHINE VISION SYSTEM

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Abstract

Researchers always put their efforts to implement the various humanoid task by the electromechanical system. The real time vision system is a one of the challenging system, which is constantly modified, with various approaches along with the development in technologies. These visual system are categorically consists of - Interactive system: face recognition, finger print identification, Offline systems: GIS, Satellite images, forecast system, feature extraction system, security system, pattern matching and dedicated systems, Real time systems: robotic systems, security and surveillance systems. These are likely to be achieved with multidisciplinary aspects of the engineering. As it is most complex the maximum time, energy, the nervous system is busy in receiving the information and giving the action and commands.

Key Words : *Machine Vision, Digital Cameras, Parallel architecture,real time processing, image Processing, Image edge analysis.*