

FPGA Based Image Processing: Examples From Massey University

Abstract

Field Programmable Gate Arrays (FPGAs) are increasingly being used as an implementation platform for embedded vision applications. A brief overview will be given of several recent and current projects at Massey University. Applications include: vision for robot soccer, a pipe inspection robot, foveal vision, parallel morphological filters, with hints of other projects as time permits.

DONALD BAILEY

Donald Bailey is an Associate Professor at Massey University in the School of Engineering & Advanced Technology, and is the leader of the Image and Signal Processing Research Group. He has over 30 years' experience in image processing and machine vision, and has a particular interest in FPGA based image processing. He is the author of the book "Design for Embedded Image Processing on FPGAs" published by Wiley/IEEE Press.