

Public Abstract

First Name:Daniel

Middle Name:Alan

Last Name:Conrad

Adviser's First Name:Guilherme

Adviser's Last Name:DeSouza

Co-Adviser's First Name:

Co-Adviser's Last Name:

Graduation Term:SP 2011

Department:Computer Engineering

Degree:MS

Title:Planar Detection Using Modified Expectation Maximization

Due to the existence of planar regions in indoor and outdoor environments, the detection of planar regions in images is an important topic in computer vision. Detection of planar regions can be applied in many research areas ranging from mobile robotics to augmented reality. In this work, an algorithm is proposed that can be used to detect planar regions in a pair of images. Experiments show that this algorithm achieves comparable results with other algorithms in the literature.