

VYSOKÉ UČENÍ TECHNICKÉ V BRNĚ

**Fakulta elektrotechniky a komunikačních technologií
Ústav automatizace a měřicí techniky**

BAKALÁŘSKÁ PRÁCE

Vyhodnocování polohy oční zornice

Brno 2005

Jiří Hajda

P r o h l á š e n í

Prohlašuji, že jsem předloženou bakalářskou práci zpracoval sám s konzultační pomocí vedoucího práce a uvedených konzultantů. Použité literární prameny jsou uvedeny v literárních odkazech.

V Brně dne :

Podpis:

Brno University of Technology
Faculty of Electrical Engineering and Communication
Department of Control, Measurement and Instrumentation

Eye-pupil Position Evalition

Thesis

Specialisation of study: Cybernetics, Control and Measurement
Student: Jiří Hajda
Supervisor: Ing. Luděk Žalud, Ph.D.

Abstract :

This thesis deal with possibilities of eye-pupil position evaluation. It includes placing and selection of camera, scanning and digitizing of video by digitizing unit, loading data to the test application, preprocessing and analysis of single pictures in computer and distribution gained coordinates in the following out of computer. In detail there are described possibilities of utilisation, negative influences on recognition process and way of their eventual elimination. There are itemized individual principles of different filters with evaluation of advantages and disadvantages and composition filters to the methods. User interface of test application are there described too.