PROPOSAL OF THESIS TOPIC FOR MGR INŻ. (MSE) PROGRAMME IN TELECOMMUNICATIONS AND COMPUTER SCIENCE

Topic: “3D Scene Analysis through image synthesis”

Topic in Polish: Analiza sceny trójwymiarowej przez syntezę obrazu

Supervisor: Pawel Pelczynski, PhD.

Auxiliary supervisor:

Goals and scope of the work:

The goal of proposed project is development and implementation of 3D scene analysis technique based on scene image synthesis and correction of errors between real and synthetic image. Stereoscopic camera is planned to serve as image source. Left image will deliver texture for 3D scene model, to be rendered. A virtual camera will be put in the place of real, right camera to synthesise an approach of right image. Scene model will be updated to minimize local error between rendered and real image.

Prerequisites (e.g. experience in writing programs in a computer language or knowledge of a foreign language):

Knowledge of C++ and ability to effectively use Open CV Library.

Literature:


Łódź, 2010-05-26

Supervisor’s signature

THESIS TOPIC SELECTION ACKNOWLEDGMENT

Student’s name: ____________________________ Student’s ID ________

Faculty: ____________________________

Main subject/major/module: ____________________________________________

Date and student’s signature

Supervisor’s signature