PROPOSAL OF THESIS TOPIC
FOR BSc PROGRAMME IN BIOMEDICAL ENGINEERING

Topic: 3D face reconstruction

Topic in Polish: Trójwymiarowa rekonstrukcja twarzy

Supervisor: dr inż. Paweł Pelczyński

Auxiliary supervisor: —

Goals and scope of the work:

The goal of the project is a development of software for automatic face modelling. The model of a face should be created on the basis of a generic, wire-frame human face model and two pictures of a given face. In order to create 3D model from 2D pictures, photographs of the object should be taken simultaneously from two different camera angles. Software procedure should morph generic model until good face texture projection on both photographs is obtained.

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

- Good knowledge of English
- Programming skills in MS Windows OS

Literature:

2. Yuxiao Hu, Dalong Jiang, Shuicheng Yan, Lei Zhang, Hongjiang zhang: "Automatic 3D Reconstruction for Face Recognition”Sixth IEEE International Conference on Automatic Face and Gesture Recognition (FGR’04).

Łódź, 2010-07-06

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

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