



Proposal of thesis topic for mgr inż. (MSE) programme in Telecommunications and Computer Science

1. Topic: Face detection in surveillance-system images

2. Supervisor: Krzysztof Ślot

3. Auxiliary supervisor: -

4. Goals and scope of the work:

An objective of the dissertation is to develop a method for detecting faces in images taken in public places. The task should be realized using two-step image analysis. The former step will be a coarse-level image processing, where template-matching techniques should be used to detect regions of interest. The latter step will include an analysis of selected regions and will be performed using more extensive analysis (multi-resolution analysis, deformable models etc.). An expected outcome of the dissertation is operational software, written in Java or C++, which allows to extract from an input image face-containing regions.

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

Java or C++ programming skills, knowledge of basic image processing methods

6. Literature:

Biometrics – Personal identification in networked society, Kluwer Academic Publishers, 1999, ISBN – 0-7923-8345-1

Internet

Łódź, 2003-03-27

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