



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

**1. Topic:** Personal identity verification based on iris image analysis

**2. Supervisor:** Krzysztof Ślot

**3. Auxiliary supervisor:** -

**4. Goals and scope of the work:**

An objective of the dissertation is to implement (in Java or C++) a method of personal identification based on iris pattern analysis. The main idea of the algorithm is to create a representation of an iris using a binary code, called the "iris code" and then, to use this code for classification. Classification procedure will be held using statistical distance measures, by accepting or rejecting a hypothesis that given input iris image matches any of pre-stored templates. To complete the task, appropriate image pre-processing, feature extraction and classification procedures need to be realized.

**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

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### THESIS TOPIC SELECTION ACKNOWLEDGMENT

Student's name: \_\_\_\_\_ Student's ID \_\_\_\_\_

Faculty: \_\_\_\_\_

Main subject/major/module: \_\_\_\_\_

Date and student's signature

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