

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

1. Topic: Video processing algorithms implementation in FPGA devices
2. Supervisor: Piotr Wasilewski
3. Auxiliary supervisor:
4. Goals and scope of the work:
An objective of the dissertation is to test the ability for real time implementation in FPGA (Field Programmable Gate Array) devices various video processing algorithms such as twand three dimensional wavelet transform, color space converters, region classification an object recognition.
The limitations of hardware implementations, the speed and hardware utilization should b studied in the dissertation. Sample implementations also should be presented.
5. Prerequisites (e.g. experience in writing programs in a computer language o knowledge of a foreign language):
Knowledge of digital logic, programmable logic devices, ability for reading technical papers application notes and data sheets of integrated circuits, C++ basic experience
6. Literature:
Materials will be provided by the supervisor
Łódź, 2004-04-06 Supervisor's signature
THESIS TOPIC SELECTION ACKNOWLEDGMENT
Student's name: Student's ID
Faculty:
Main subject/major/module:

Supervisor's signature

Date and student's signature