

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

**1. Topic:** 3-D Discrete Wavelet Transform coefficients coding with zerotrees method

**2. Supervisor:** Piotr Wasilewski

**3. Auxiliary supervisor:**

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

An objective of the dissertation is to design the three-dimensional Discrete Wavelet Transform coefficients coding algorithm based on zerotrees approach.

As the result the software package should be developed, where the several sets of filter banks and coding methods should be analyzed and compared in terms of computing time and allocated memory space for different dimensions of coded data.

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

Knowledge about digital signal and image processing techniques, experience with Borland C++ Builder

**6. Literatura podstawowa:**

Materials will be provided by the supervisor

Łódź, 2005-04-06

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

Supervisor's signature