

## Department of Knowledge Engineering Gdansk University of Technology

Faculty of Electronics, Telecommunications & Informatics  
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### Department's fields of expertise and research

Our research and education topics in the area of machine vision are:

- statistical pattern recognition
- classifier design, implementation and evaluation
- principal components analysis, discriminant analysis (LDA)
- biometrics (in particular face detection and recognition)
- object localization using deformable models
- motion detection and analysis using optical flow

Results of this research has contributed to several systems in the area of document engineering, implemented by our team:

- ScoreExplorer, a musical score recognition system
- AATE, a system for editing and analysis of examination forms
- PollReader, optical mark recognition software
- DDW, a digital document workbench for automatic analysis and quality assessment of historical typewritten documents

Combined expertise of our staff in machine vision, document processing, and software engineering, allows us to take challenging research and development projects.



### Co-operation request

We are looking for:

- academic or industrial partners interested in the research related to machine vision and document processing
- companies that would like to employ state of the art technology of pattern recognition, computer vision and image processing in real-life applications

For further details please contact the Head of the Department

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### Facts & data

Currently the department employs 10 experienced researchers and 9 PhD students.

Here are some of the projects that we were involved in:

- Digital library of interactive musical documents, 2005-08
- Dynamic 3D visualization of terrain based on geospatial data. National grant KBN, 2004-05
- MEMORIAL: A digital document workbench for preservation of personal records in virtual memorials. European grant(FP5)
- GDASKON: A municipal Web information and navigation system for the handicapped. National grant, KBN 2001-03

