

# Grzegorz Kozieł

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## Research Interests

Information protection, sound steganography, digital signal processing  
Motion capture

## Education

2003-2011 – Ph.D. in Elektrotechnic/Information protection, digital signal processing. Lublin University of Technology, Poland. Thesis: “Modified methods of digital signal processing in computer steganography”.

1998-2003 – MSc in Elektrotechnic/Engineering application of informatics. Lublin University of Technology, Poland.

## Work Experience

- 10/2003-02/2011 – Assistant in the Institute of Computer Science, Lublin University of Technology.
- 03/2011-Present – Lecturer in the Institute of Computer Science, Lublin University of Technology.

## Leadership and organizing activities

- Organizing PhD students conference at Lublin university of technology (2004)
- Assistant in “Absolwent na miarę czasu” project

## Academic Experience

### Research and educational projects

- High-Flyer Graduate (“Absolwent na miarę czasu”) – project of establishing new degree courses in Computer Science.
- Coach in Tempus IV projects - TSECAR (Teaching Software Engineering in Central Asia and Russia)

### Research activities

- Computer steganography – sound steganography method developing; creating new steganography methods with digital signal processing methods use.

### Teaching

- Team IT projects
- Database languages
- C programming
- C++ programming
- Matlab programming
- Cryptography and steganography
- Information security managing
- Information systems security
- Computer science basis

### Courses and training

- Internet Applications - Microsoft ITAcademy

- Cisco Certified Network Associate course
- Modern university marketing
- Computer Networks – Lublin University of Technology

## Publications

### Chapters in books:

1. Garbaczuk W., Świć A.: Podstawy ochrony informacji” co-author in chapter 3.2 and 3.3 Lublin, 2005,

### Journals papers:

2. Koziel G.: Using rhythm shifts in steganography, Polish Journal of Environmental Studies (2008)
3. Koziel G.: Method of concealing information in sound based on Fourier transform and masking, Polish Journal of Environmental Studies (2009)

### Other refereed conference and workshop paper:

4. Koziel G.: Didactic halls lighting with economic analysis, Ecobaltica 2002, Petersburg
5. Koziel G., Kamińska A.: Use of databases in JSP technology, Varia Informatica, PTI 2003
6. Koziel G.: Cipherring security, Systemy i sieci komputerowe, PTI 2004
7. Koziel G.: Digital sound recording in steganographical tasks, Bezpieczeństwo informacji – od teorii do praktyki, Mikom 2005
8. Koziel G.: Digital watermarks in steganology, Varia Informatica, PTI 2005
9. Koziel G., Harbarchuk V.: Using steganographical methods in multimedial carrier, Artificial Intelligence no. 2/2005
10. Koziel G., Harbarchuk V.: Digital Signature – tasks and problems, Актуальні Проблеми Економіки no.10(52)/2005
11. Koziel G.: Steganography in optic discs protections, Varia Informatica – technologie I bezpieczeństwo 2006
12. Koziel G., Harbarchuk V.: The method of correlation between channels of audio record for steganographic purposes, Искусственный Интеллект 2006
13. Koziel G.: Neural networks use in sound steganography, Informatyka stosowana, Planowanie 2007
14. Koziel G., Harbarchuk V.: Steganographical methods used in time domain robust to desynchronizing attacks, Varia Informatica 2008
15. Koziel G., Harbarchuk V.: Review of sound-based steganographic techniques, Искусственный Интеллект 2008
16. Koziel G.: Using rhythm shifts in steganography, Polish Journal of Environmental Studies 2008
17. Koziel G., Harbarchuk V.: Fourier transform and masking in sound steganography, Актуальні Проблеми Економіки 2009
18. Koziel G.: Method of concealing information in sound based on Fourier transform and masking, Polish Journal of Environmental Studies 2009
19. Koziel G., Harbarchuk V.: Properties of a New Fourier Transform-based Steganographic Method, Искусственный Интеллект 2010
20. Koziel G.: Fourier transform use possibilities in sound steganography, Prace Instytutu Elektrotechniki, zeszyt 247, 2010
21. Koziel G.: Fourier transform use in sound steganography. Studia Informatica. Zeszyty Naukowe Politechniki Śląskiej, 2011, seria INFORMATYKA, Vol. 32, Number 2A (96).
22. Koziel G.: Fourier transform based methods in sound steganography, Актуальні Проблеми Економіки 6(120) 2011