

# Joanna Dobrosława Chimiak–Opoka



## Curriculum Vitae

Surname Chimiak–Opoka  
First name Joanna Dobrosława  
Title Ph.D. Eng.  
Date of birth 1974–05–14  
Place of birth Szczecin (Poland)  
Nationality Polish  
Marital status married, childless

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## Education

2000–2002 Technical University of Szczecin (PS), Faculty of Computer Science

- title: **Philosophy Doctor, Engineer**
- specialisation:

*Artificial Intelligence, Multidimensional Modelling*

- Ph.D. Thesis:

*The method for input selection for models of multidimensional systems using artificial intelligence methods for dimensionality reduction*  
(in Polish)

- first class honours

1993–1998 Technical University of Szczecin (PS), Institute of Computer Science

- title: **Master of Science, Engineer**
- specialisation:

*Software — Banking systems*

- title of Master Thesis:

*Minimisation and classification algorithm for logic functions using information theory* (in Polish)

- final degree: *very good*
- two *scholarships of Minister of Education* for high degrees (1996/97, 1997/98)
- *student assistant* in Institute of Computer Science (one year: 1996/97 summer semester + 1997/98 winter semester)
- 2 gold, 1 silver and 5 bronze medals in University team on *Polish Academic Championships* in Athlete and Cross–Country (1994 – 1999)
- *Technical University of Szczecin (PS) Chancellor’s congratulations letters* for very good results at studies in academic year 1993/94 (the first year of study) and in next years for study, scientific (4 times) and sport (2 times) results

## Research work

- 2003–2007 supervisor : *prof. Ruth Breu*  
field : **model engineering**  
main paper : J. Chimiak-Opoka, G. Giesinger, F. Innerhofer-Oberperfler, and B. Tilg. Tool-supported systematic model assessment. In H.C. Mayr and R. Breu, editors, *Modellierung 2006, 22.-24. März 2006, Innsbruck, Tirol, Austria, Proceedings*, volume 82 of *Lecture Notes in Informatics (LNI)—Proceedings*, pages 183–192. Gesellschaft fuer Informatik, 2006.
- 2000–2003 supervisor : *prof. Andrzej Piegat* (supervisor of Ph.D. Thesis)  
field : **multi-variable modelling**  
main paper : J. Chimiak-Opoka, *New Index of Significance for Inputs Selection*. In Kacprzyk Rutkowski, editor, *Advances in Soft Computing*, Proceedings of the Sixth International Conference on Neural Network and Soft Computing, Zakopane, Poland, June 11–15, 2002, pages 292–297. Physica-Verlag.
- 1996–1999 supervisor : *prof. Włodzimierz Shmerko* (supervisor of M.Sc. Thesis),  
: *prof. Swietłana Januszkiewicz*  
  
field : **multi-valued logic**  
main paper : J. Chimiak, J. Kołodziejczyk and M. Opoka, *Synthesis of combinational binary circuits based on GA with entropy evaluation*, Short Course on Evolutionary Algorithms in Engineering and Computer Science — Eurogen'99 (Jyvaskyla, Finland), 1999, pp. 28–32  
  
field : **banking telecommunications systems**  
main paper : G. Hołowiński, K. Małecki, J. Kołodziejczyk, J. Chimiak and D. Popel, *Some aspects of analysis of financial telecommunication systems*, Proc. of 2nd International Workshop on Banking Information Technologies & Financial Telecommunication — BIT&FT'99 (Szczecin, Poland) (W. Shmerko and G. Hołowiński, eds.), 1999, Nov., pp. 33–44
- 1997 supervisor : *prof. Georgi Kuchariew*  
field : **pattern recognition**  
main paper : M. Borawski, J. Chimiak and G. Kuchariew, *The method of personal identification based on the iris image recognition*, Proc. of the Int. Conf. on Application Computers Systems — ACS'97 (Szczecin, Poland) (J. Soldek, ed.), 1997, pp. 78–85

The complete list of publications is available on-line at <http://research.opoki.com/>.

## Organisation work

- University of Innsbruck (UIbk):
  - **reviewer** (PC) of: MSM'2007 ; additional reviewer (or delegated) of: FASE'2009, ICSOC'2008, ISTA'2008, FASE'2008, SoSyM, MoDELS'2007, MeDeVVa'2007, SEA'2005, SEUH'2005, Modellierung'2004, UML'2004, CSDUML'2004, CSDUML'2003
  - **member of intitute curricula commission** — (2005–2007, UIbk) , **didactic coordinator** in research group Quality Engineering (2003–2007, UIbk), coordinator of **Erasmus** student exchange programme at Institute of Computer Science (2004, UIbk)
- Technical University of Szczecin (PS):
  - **member of university commission** on polish-wide contest for the best students — *Primus Inter Pares* (2000/01, 2001/02, PS) , **member of faculty commission** supervising entrance examination (1999/2000 – 2002/03, PS).
  - **member of organisation committee** of international conferences: *Pattern Recognition and Information Processing*, Minsk, Belarus — PRIP'99; *Advanced Computer Systems*, Szczecin, Poland— ACS'97, ACS'98, ACS'99; *Banking Information Technology and Financial Telecommunication*, Szczecin, Poland— BIT&FT'96 (technical committee), BIT&FT'99 (PS)

## Didactic work

Didactic work since 1996/97 SS (computer laboratories, classes, projects, lectures) in different fields: artificial intelligence, logic design, programming and software development (among others: neural networks, fuzzy systems, digital elements and logic circuits, bases of informatics, bases of software — in Polish software development 3 and 4 — in German, information security, semantics of programming languages (lecture), formal specification and verification (lecture) selected topics of software engineering (lecture) — in English).

Finished pedagogic courses: Technical University of Szczecin (PS) (internal) and University of Innsbruck (UIbk).

## Qualifications

**Foreign languages** English (advanced), German (advanced)  
**Modelling** UML + OCL, Z Notation, CASL, Alloy  
**Programming** PHP, Bash, HTML, MySQL  
**Other** L<sup>A</sup>T<sub>E</sub>X , B<sub>I</sub>B<sub>T</sub>E<sub>X</sub>  
**OS know-how** Linux/Debian

## Professional experience

### University of Innsbruck (UIbk), Institute of Computer Science

www <http://qe-informatik.uibk.ac.at/>  
Position post-doc  
Employment 40h pro week  
Duration from August 1., 2003 till December 31., 2009

### Technical University of Szczecin (PS), Faculty of Computer Science

www <http://www.wi.ps.pl/>  
Position assistant  
Employment full time  
Duration from Oktober 1., 1998 to February 28., 2003  
from March 1., 2003 to October 15., 2003 — unpaid leave

### Computer Mathematical School MATCOMP

Company profile computer courses  
www <http://www.matcomp.com.pl/>  
Range of duties professional training in using computer programs such as Microsoft Office, Corel Draw and OS Windows  
Employment part time  
Duration 2 years

### FiberNet

Company profile Internet Service Provider  
www <http://www.fiber.net.pl/>  
Position senior programmer  
Range of duties – designing databases structures  
– programming Internet portals (PHP + MySQL + PHP Lib)  
Achievements – participation in creation of fully automatic web-hosting system:  
<http://www.powerweb.pl/>  
– experience in designing and creating Internet portals using PHP,  
PHP Library and MySQL database  
Employment part time  
Duration 1.5 years

## Hobby

*mountains, running, swimming*