



**Krzysztof Banaś, PhD.**  
**AGH - University of Science and Technology**  
**Mickiewicza 30**  
**30-059 Kraków, Poland**  
**e-mail: pobanas@cyf-kr.edu.pl**

Kraków, March 15<sup>th</sup>, 2013

## ***Krzysztof Banaś***

### **Curriculum vitae**

#### **1. Personal data**

Date of birth                      May 8<sup>th</sup>, 1961  
Nationality                        polish

#### **2. Education and professional qualifications:**

M.Sc. in Applied Mechanics: 1987 - Cracow University of Technology, Kraków, Poland  
M.Sc. in Mathematics: 1991 - Warwick University, Coventry, United Kingdom  
Ph.D. in Mechanics: 1994 - Institute of Fundamental Technological Research, Warszawa, Poland (with honors)  
Habilitation thesis in Computer Science: 2006 - Institute of Fundamental Technological Research, Warszawa, Poland (with honors)

#### **3. Current and previous academic positions**

Teaching assistant 1987-1992, Civil Engineering Department, Cracow University of Technology, Kraków, Poland  
Teaching assistant 1992-1995, Computer Center, Cracow University of Technology, Kraków, Poland  
Assistant Professor 1995-present, Institute of Computer Modelling, Cracow University of Technology, Kraków, Poland  
Assistant Professor 2006-2008, AGH - University of Science and Technology , Faculty of Metals Engineering and Industrial Computer Science, Kraków, Poland  
Associate Professor 2008-present, AGH - University of Science and Technology , Faculty of Metals Engineering and Industrial Computer Science, Kraków, Poland

#### **4. Teaching experience**

Lectures and laboratory classes for Computer Science students at Cracow University of Technology and Applied Computer Science students at AGH University of Science and Technology on: Parallel and Distributed Computing, High Performance Computing, Algorithms and Data Structures, Software Engineering, Object Oriented Techniques

## **5. Scientific interests**

High Performance Computing  
Parallel and Distributed Computing  
The Finite Element Method

## **6. Other professional experience**

Short term visiting scholar 1996, 1997, 1999, 2004, Texas Institute for Computational and Applied Mathematics, University of Texas, Austin, USA

Visiting scholar 01.2000-05.2001 Texas Institute for Computational and Applied Mathematics, University of Texas, Austin, USA

Short term visiting scholar, VII 2001, VII 2003, Insitut für Wissenschaftliche Rechnen, Universität Heidelberg, Germany

## **7. Grants awarded:**

„Nowoczesne architektury komputerowe i metoda elementów skończonych” (New computer architectures and the finite element method) – NCN 2011/01/B/ST6/00674 – Cracow University of Technology, 2012-2015

„Adaptacyjna metoda elementów skończonych w wieloskalowych zagadnieniach mechaniki” (Adaptive finite element method for multiscale problems of mechanics) - MNiSW N 501 120836 – AGH - University of Science and Technology, 2009-2012

„Algorytmy i programy do współbieżnej symulacji przepływów adaptacyjna metoda elementów skończonych” (Algorithms and programs for concurrent simulations of flows by the adaptive finite element method) – KBN 8 T11F 003 12, Cracow University of Technology, 1997–1999

„Zastosowanie techniki obliczeń współbieżnych na zespołach stacji roboczych, w programach adaptacyjnej metody elementów skończonych” (Concurrent computations on workstation clusters for adaptive finite element programs) – KBN 7 T07A 008 08, Cracow University of Technology, 1995–1996

## **8. Reviews for journals:**

International Journal for Numerical Methods in Engineering  
Communications in Numerical Methods in Engineering  
International Journal Computers and Fluids  
Computer Methods in Applied Mechanics and Engineering  
Mechanika Teoretyczna i Stosowana

## **9. Honors and Awards**

Stefan Batory Scholarship 1989-1990, Mathematics Department, Warwick University, Coventry, United Kingdom

Texas Institute for Computational and Applied Mathematics (TICAM) Visiting Faculty Fellowship – 1996, 1997, 2001

Award of the Rector of Cracow University of Technology 1995, 2005