

Curriculum Vitae – Prof. Dr. Jacek Błazewicz

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Academic experience

Positions in Poland

1981 – 1987	Associate Professor, Institute of Control Engineering, Poznań University of Technology
1987 –	Professor, Institute of Computing Science, Poznań University of Technology
1994 – 1999	Professor, Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznań
1999 –	Professor, Institute of Bioorganic Chemistry, Polish Academy of Sciences, Poznań
1981 – 1984	Deputy Dean of the Electrical Engineering Faculty, Poznań University of Technology
1987 –	Deputy Director of the Institute of Computing Science, Poznań University of Technology

Positions abroad

Feb 1985	Visiting Professor at IASI-CNR, Rome, Italy
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Jul 1987	Visiting Professor, Technische Universität Clausthal, Clausthal-Zellerfeld, West Germany
Jan – Feb 1988	Visiting Professor, Technical University of Nova Scotia, Halifax, Canada
Jul 1988	Visiting Professor, Technische Universität Clausthal, Clausthal-Zellerfeld, West Germany
Jun 1990	Visiting Professor, Technische Universität Clausthal, Clausthal-Zellerfeld, West Germany
Apr 1991	Visiting Professor, European Business School, Oestrich - Winkel, Germany
May 1992	Universität des Saarlandes, Saarbrücken, Germany
Sep 1992 – Feb 1993	Visiting Professor, Institut National Polytechnique de Grenoble, France
Sep – Oct 1996	Visiting Professor, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland
Nov 1996 – Feb 1997	Visiting Professor, Université Joseph Fourier, Grenoble
Dec 1999 – Feb 2000	Visiting Professor, Institut National Polytechnique de Grenoble, France
2003 – 2007	EPSRC Fellow, University of Nottingham, UK
2005 –	Member of the EPSRC Peer Review College, UK

Industrial experience

1974	Industrial practice in Polish mining industry (1 month)
1999	Polish patent application P335786 for DNA sequencing with isothermic libraries
2004	Polish patent application P364736 for NMR recognition of RNA structures

Grants

1993	1 NATO Grant
1992 – 1997	2 European Grants: CRIT 1 and CRIT 2 within (ESPRIT)
2005 – 2008	3 European Grants – Compuvac, Metafunctions, Bioptrain
1990 – 2008	9 Grants of the Polish State Committee for Scientific Research (KBN)

Professional activities

Member of the Polish Academy of Sciences

Member of the National Council of Science (NCN) in Poland

Founding Member of the Polish Bioinformatics Society

Honorary Coordinator of the EURO Working Group on Computational Biology, Bioinformatics and Medicine

Series Editor: *Springer Handbooks in Information Systems*

Editorial Board: *Journal of Heuristics, Journal of Scheduling, Parallel Computing, RAIRO-RO, e-Business Management, Memetic Algorithms, Computational Methods in Science and Technology, Foundations of Computing and Decision Sciences, IEEE Transactions on Industrial Informatics, The Open Journal of Bioinformatics*

Chairman of the Program Committee of the bi-annual *Schloss Dagstuhl Symposium on Scheduling in Computer and Manufacturing Systems* (1995, 1997, 1999, 2002, 2004)

Co-chairman of the bi-annual *Workshop on New Trends in Scheduling in Parallel and Distributed Systems* (1996 – Alpe d' Huez, 1998 – Aussois, 2000 – Marseille-Luminy, 2006 – Marseille-Luminy, 2008 – Marseille-Luminy, 2010 – Frejus, 2011 – Hangzhou)

Organizer and Chairman of the Program Committee of the *Symposium Models and Algorithms for Planning and Scheduling Problems – MAPSP'03* (Aussois 2003)

Co-chairman of the Program Committee of the *International School on Computational Biology*, Poznań, Poland, 2001

Co-Chairman of the Program Committee of the *Max Planck-Poland Symposium on Bioinformatics*, Berlin, Germany, 2001

Co-Chairman of the Program Committee of the *Polish-Japan Symposium on Bioinformatics*, Poznań, Poland, 2002

Co-Chairman of the Program Committee of the *Polish-German Seminar on Perspectives of Structural and Computational Biology and Their Practical Applications*, Poznań, Poland, 2002

Awards

2012 Copernicus Award

2006 Doctor Honoris Causa of the University of Siegen

1991	Gold Medal of the Association of the European Operational Research Societies (EU-RO)
1980	Scientific Award of the Scientific Secretary of the Polish Academy of Sciences
1981	Award of the Dept. of Technical Sciences of the Polish Academy of Sciences
1988	State Award
1979 – 2010	8 Awards of the Ministry of Science and Higher Education

Publications – books

"Scheduling under Resource Constraints: Deterministic Models", J.C. Baltzer, Basel, 1987, co-authors: W. Cellary, R. Słowiński, J. Węglarz.

"Scheduling in Computer and Manufacturing Systems", Springer, Berlin, New York, 1993, (II ed.) 1994, co-authors: K. Ecker, G. Schmidt, J. Węglarz.

"Scheduling Computer and Manufacturing Processes", Springer, Berlin, New York, 1996, (II ed.) 2001, co-authors: K. Ecker, E. Pesch, G. Schmidt, J. Węglarz.

"Handbook on Parallel and Distributed Processing", Springer, Berlin, New York, 2000, co-editors: K. Ecker, B. Plateau, D. Trystram.

"Handbook on Data Management in Information Systems", Springer, Berlin, New York, 2003, co-editors: W. Kubiak, T. Morzy, M. Rusinkiewicz.

"Handbook on Scheduling. From Theory to Applications", Springer, Berlin, New York, 2007, co-authors: K.Ecker, E.Pesch, G.Schmidt, J.Weglarz.

Several books and monographs on algorithms and complexity in Polish.

Publications – papers

He has published widely in the above fields (see research interests). His publication record includes over 340 papers in many outstanding journals, among others in: *Discrete Mathematics, Discrete Applied Mathematics, Journal of Scheduling, Journal of Heuristics, Journal of Computational Biology, Bioinformatics, Computer Applications in Biosciences, Computational Biology and Chemistry, Operations Research, INFORMS Journal on Computing, IEEE Trans. on Computers, IEEE Trans. on Communications, IEEE/ACM Trans. on Computational Biology and Bioinformatics, Parallel Computing, Acta Informatica, Performance Evaluation, Intl. Transactions of Operations Research, European*

Journal of Operational Research, Information Processing Letters, Operations Research Letters. He is also the author and co-author of over ten monographs. His science citation index achieves 3000 (on the ISI list).

Research interests

Scheduling theory and practice

Bioinformatics

Algorithm design

Complexity analysis of algorithms

Data transmission systems

Main results

Design of the new model in scheduling theory connected with *multiprocessor tasks*

Defining the new criterion for the real time scheduling – *mean weighted information loss*

Complexity analysis of open scheduling problems, especially in the *resource-constrained scheduling*

Introducing the new model in *Flexible Manufacturing Systems*, taking into account machines and AGVs

Designing new algorithms for DNA sequencing by hybridization and *DNA assembling* problem

Designing new models and algorithms for a construction of *NOESY paths in NMR spectra* of RNA chains

Designing new models for the iron homeostasis, based on Petri nets