

CURRICULUM VITAE

22 September, 1999

Name **Norbert Jankowski**

Permanent address Department of Computer Methods
Nicholas Copernicus University

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Personal data

Born January 29, 1968, in Krotoszyn, Poland

Nationality Polish

Married April 25, 1992, with Marta Bracichowicz

Children son — Kornel

Education

1987 – 1992 Undergraduate study in computer science

1992 Master of Science diploma

Positions

1992 – ... Assistant, Department of Computer Methods
Nicholas Copernicus University

Computer experiences

Languages C++, C, LaTeX (with Postscript), Pascal, AWK, MatLab, etc.

Systems Unix (Solaris, SunOS, Linux, AIX — system administrator), MS W

Teaching experiences Object Oriented Programming with C++, Language C, Introduct

Other Interests Photography, Tracking

Languages Polish — mother language

English

Professional associations Polish Neural Networks Society (PNNS), Group of system T_EX us

Research Fields

- Neural Networks, Local learning, Complexity of NN
- Cognition, Neuroscience and Modeling of Brain Function
- Machine Learning, Pattern Recognition and Fuzzy Information
- Complexity of Information
- Data Structures and Algorithms, Graph Theory, OOP.

Conferences attended

- Machine Learning and Applications, 5-16 July 1999, Chania, Greece
- 4th Conference on Neural Networks and Their Applications, 18–21, May, 1999, Zakopane, Poland
- Colloquia in Artificial Intelligence, Theory and Applications, 28–30, September, 1998, Łódź, Poland
- Third International Seminar on Statistics and Clinical Practice 24–27 June, 1998, Warsaw, Poland
- Second International Conference on Cognitive and Neural Systems 27-30 May, 1998, Boston, USA
- 8th Workshop on Open Systems and Information Dynamics, 3–5 March, 1998, Toruń, Poland
- Third Conference on Neural Networks and Their Applications, 14–18 October 1997, Kule, Poland
- 7th International Conference on Artificial Neural Networks (ICANN), 7–10 October, Lausanne, Switzerland
- VI Międzynarodowe Sympozjum Inteligentne Systemy Informacyjne, 9-13 czerwca 1997, Zakopane
- IV Polish Conference on T_EX, May 1997, Bachotek, Poland
- Symposium on Cognitive Science '96: Consciousness and Perception, December 1996, Poznań, Poland
- 34th ICM Seminar: Statistic and Clinical Practice, 24–28 June 1996, Warsaw, Poland.

- I Krajowa Konferencja Algorytmy Ewolucyjne, 12–15.06.1996, Murzasichle, Poland
- Second Conference Neural Networks And Their Applications, April/May 1996, Szczyrk, Poland
- The 7th Workshop Open Systems & Information Dynamics, 19–21 March 1996, Toruń, Poland
- I Krajowa Konferencja Użytkowników Matlab-a, 13–15 Listopad 1995, Polska
- 8th - International Symposium On System – Modeling – Control, 1–5 May 1995, Zakopane
- III Polish Conference on T_EX, May 1995, Bachotek, Poland
- II Polish Conference on T_EX, May 1994, Bachotek, Poland
- I Polish Conference on Neural Network, April 1994, Kule, Poland
- The 6th International Workshop Open Systems and Information Dynamics, April 1994, Toruń, Poland
- I Polish Conference on T_EX, May 1993, Bachotek, Poland

Schools attended

- Summer School on Connectionist Modelling Oxford, 18th - 30th July, 1999
- Machine Learning and Application, Advanced Course on Artificial Intelligence 1999 (ACAI'99) 5-16 July 1999, Chania, Greece
- Generalization In Neural Networks And Machine Learning, 4 – 15 August 1997, Isaac Newton Institute, Cambridge, U.K.
- Neural Information Processing, From Biological Data to Modelling and Applications, Cargese, France, June 30 – July 12, 1997
- Easter School on Computational Modelling in Psychology: Learning and Memory, King's College, Cambridge, England, March 1995

List of Publications

- [1] N. Jankowski. Ontogeniczne sieci neuronowe. In *Sieci Neuronowe*. 1999. (PDF).
- [2] N. Jankowski. *Ontogenic neural networks and their applications to classification of medical data*. PhD thesis, Department of Computer Methods, Nicholas Copernicus University, Toruń, Poland, 1999. (PDF).
- [3] W. Duch and N. Jankowski. Survey of neural transfer functions. *Neural Computing Surveys*, (2):163–212, 1999. (PDF).
- [4] N. Jankowski. Approximation and classification in medicine with IncNet neural networks. In *Machine Learning and Applications. Workshop on Machine Learning in Medical Applications*, pages 53–58, Greece, July 1999. (PDF).
- [5] N. Jankowski. Flexible transfer functions with ontogenic neural. Technical report, Computational Intelligence Lab, DCM NCU, Toruń, Poland, 1999. (PDF).
- [6] N. Jankowski. Approximation with RBF-type neural networks using flexible local and semi-local transfer functions. In *4th Conference on Neural Networks and Their Applications*, pages 77–82, Zakopane, Poland, May 1999. (PDF).
- [7] N. Jankowski. Controlling the structure of neural networks that grow and shrink. In *Second International Conference on Cognitive and Neural Systems*, Boston, USA, May 1998.
- [8] N. Jankowski and V. Kadiramanathan. Statistical control of RBF-like networks for classification. In *7th International Conference on Artificial Neural Networks*, pages 385–390, Lausanne, Switzerland, October 1997. Springer-Verlag.
- [9] N. Jankowski and V. Kadiramanathan. Statistical control of growing and pruning in RBF-like neural networks. In *Third Conference on Neural Networks and Their Applications*, pages 663–670, Kule, Poland, October 1997.
- [10] R. Adamczak, W. Duch, and N. Jankowski. New developments in the feature space mapping model. In *Third Conference on Neural Networks and Their Applications*, pages 65–70, Kule, Poland, October 1997.

- [11] W. Duch, R. Adamczak, and N. Jankowski. Initialization of adaptive parameters in density networks. In *Third Conference on Neural Networks and Their Applications*, pages 99–104, Kule, Poland, October 1997.
- [12] W. Duch, R. Adamczak, and N. Jankowski. Initialization and optimization of multilayered perceptrons. In *Third Conference on Neural Networks and Their Applications*, pages 105–110, Kule, Poland, October 1997.
- [13] W. Duch, R. Adamczak, and N. Jankowski. New developments in the feature space mapping model. Technical Report CIL-KMK-2/97, Computational Intelligence Lab, DCM NCU, Toruń, Poland, October 1997. (long version).
- [14] W. Duch and N. Jankowski. New neural transfer functions. *Journal of Applied Mathematics and Computer Science*, 7(3):639–658, 1997.
- [15] W. Duch, Adamczak Rafał, N. Jankowski, Antoine Naud, Jerzy Gomuła, and Tomasz Kucharski. Neural-based classification and visualization methods with applications to psychometry. In *34th International Seminar on Statistics and Clinical Practice*, Warszawa, 1996.
- [16] W. Duch, R. Adamczak, and N. Jankowski. Improved memory-based classification. In A. B. Bulsari, S. Kallio, and D. Tsaptsinos, editors, *Proceedings of the International Conference EANN '96*, pages 447–450, June 1996.
- [17] W. Duch and N. Jankowski. Bi-radial transfer functions. In *Second Conference on Neural Networks and Their Applications*, pages 131–137, Szczyrk, Poland, May 1996.
- [18] W. Duch and N. Jankowski. Bi-radial transfer functions. Technical Report UMK-KMK-TR 1/96, Department of Computer Methods, Nicholas Copernicus University, Toruń, Poland, 1995.
- [19] N. Jankowski. MatLab — plusy kontra minusy. Technical report, Department of Computer Methods, Nicholas Copernicus University in Torun, Poland, 1995.
- [20] W. Duch, N. Jankowski, A. Naud, and R. Adamczak. Feature space mapping: a neurofuzzy network for system identification. In *Proceedings of the European Symposium on Artificial Neural Networks*, pages 221–224, Helsinki, August 1995.

- [21] N. Jankowski. Applications of Levin's universal optimal search algorithm. In E. Kącki, editor, *System Modeling Control'95*, volume 3, pages 34–40, Łódź, Poland, May 1995. Polish Society of Medical Informatics.
- [22] W. Duch and N. Jankowski. Complex systems, information theory and neural networks. In *Proceedings of the first national conference: Neural Network And Their Applications*, volume 1, pages 224–231, Kule, Poland, April 1994. Institute of electronics and control system, Technical University of Częstochowa.

Visits

- UK, Sheffield University, Automatic Control and Systems Engineering, 1996 September 15th – November 15th, scholarship, hosted by Visakan Kadiramanathan
- UK, Sheffield University, Automatic Control and Systems Engineering, 1995 July – September, scholarship, hosted by Visakan Kadiramanathan
- Germany, Technical University of Munich, Institute of Computer Science, 1994 July – September, scholarship, hosted by Jürgen Schmidhuber
- France, Paul Sabatier Universite, Toulouse, 1993 June – August, scholarship