

**Activity report for 2004-2004 for the Bialystok MISS center POLAND
Submitted by Prof. Dr. Leon Bobrowski, Center Director and
Associate Directors Huntsinger and Oniszcuk**

**The McLeod Institute for Simulation Sciences (MISS) Center at the Computer Science
Faculty of the Technical University of Białystok (BTU) in Poland**

A very important role in the MISS Center activity at the Computer Science Faculty of the Technical University of Białystok (BTU) has been played by Professor Ralph Huntsinger, who is a staff member of this faculty.

Simulation courses have been taught by Prof. Huntsinger and Dr. Oniszcuk this spring term.

The XI Workshop of the Polish Society for the Computer Simulation (PTSK) was organised in 2004 in Białystok and Augustow in Poland. The Computer Science Faculty of the Technical University of Białystok (BTU) and the McLeod Institute for Simulation Sciences (MISS) have been among the organisers of this Workshop. Professor Leon Bobrowski, dean of the Faculty, has been the chairman of the Organizing Committee of the PTSK Workshop in 2004.

The Excellence Center in Information Society and Knowledge Based Economy was created in 2004 at the Computer Science Faculty of BTU by the government of Poland.

For MISS Center – Walenty Oniszcuk, Ph.D.

1. Research Activities and Projects:

Mathematical (analytical) and simulation models of information systems with priority scheduling and blocking.

Type: University project.

Years: 2003/2004/2005.

2. Educational Activities:

Mathematical modeling and its application in informatics, Simulation.

Type: University courses.

Years: 2003/2004/2005.

3. Publications:

- [1] Oniszcuk W.: *Blocking and Delay Factors in Computer Information Systems*, in *Computer Information Systems and Industrial Management Applications*, K. Saeed, R. Mosdorf, Z. Sosnowski, O.P. Hilmola, (Eds), BUFM Press, pp. 282–288 , Białystok, 2003.
- [2] Oniszcuk W.: *Quality of Service in Requirements in Information System with Blocking*, in *Information Systems Research and Management Cybernetics*, G.E. Lasker, A. Zgrzywa, (Eds), The International Institute for Advanced Studies in System Research and Cybernetics Press, Vol. I, pp. 39-43, Windsor, Canada, 2003.
- [3] Oniszcuk W.: *Blocking Strategies and Quality of Service Requirements in Computer Networks*, in *Computer Information Systems and Applications*, K. Saeed, R. Mosdorf,

J. Pejaś, O.P. Hilmola, Z. Sosnowski, I. El-Fray (Eds), BUFM Press, Vol. 1, pp. 364-371, Białystok, 2004.

- [4] Oniszczyk W.: *Intelligent call admission control mechanisms in closed type queuing models of computer networks*, Proceedings of the 15th International Conference on Systems Science, Vol. III, pp. 147-156, Wrocław, 2004.
- [6] Oniszczyk W.: *Quality of Service Requirements in Computer Networks with Blocking*, in Information Processing and Security Systems, K. Saeed, J. Pejaś (Eds), Springer, pp. 245-254, New York, 2005.

Leon Bobrowski - Publications in 2004

- [1] Bobrowski L., "Feature selection based on linear separability and CPL criterion function", pp. 189 - 192 in: *TASK Quarterly* 8 No 2 (2004)
- [2] Bobrowski L., Łukaszuk T., Selection of the linearly separable feature subsets, pp. 544-549 in: *Artificial Intelligence and Soft Computing - ICAISC 2004*, Eds. L. Rutkowski et al., Springer Verlag 2004, *Springer Lecture Notes in Artificial Intelligence* 3070
- [3] Krętowska M., Bobrowski L., Artificial Neural Networks in Identifying Areas with Homogenous Survival Time, pp. 1003 - 1013 in: *Artificial Intelligence and Soft Computing - ICAISC 2004*, Zakopane, Eds. L. Rutkowski et al., Springer Verlag 2004, *Springer Lecture Notes in Artificial Intelligence* 3070
- [4] Bobrowski L., Buzun M., Przybyszewski K., Integration of public information at the regional level – challenges and opportunities, pp. 529-533 in: *Electronic Government*, Ed. R. Traunmuller., Springer Verlag 2004, *Springer Lecture Notes in Computer Science* 3183.

The MISS center at Białystok Technical University (BTU) is engaged in the planning of a cooperative research project with MISS INSA-ROUEN in France.

A cooperative project is in the planning stage with the new SPANISH MISS center in Barcelona.