

Curriculum Vitae of Yurii E. Nesterov

January, 2007

1. Personal data

Born: 25/01/1956, Moscow (Russia)

Nationality: Belgian

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Marital status: married, two sons

Languages: Russian, English, French

2. Professional experience

Education: 1972-1977 - Undergraduate student of the Moscow State University, USSR, Chair of Operations Research.

Degrees: 1977 - Master Degree in Applied Mathematics, Moscow State University, USSR.

1984 - Ph. D. degree in Applied Mathematics, Institute of Control Sciences, Moscow, USSR.

Publications: 5 monographs and more than 70 papers

Positions: 1977 – 1992, Central Economical and Mathematical Institute of USSR Academy of Sciences (from research associate to senior researcher).

1993 – now, Center for Operations Research and Econometrics (CORE), INMA, Université Catholique de Louvain (from visiting professor to full professor).

3. Current research directions

- Smoothing technique for Structured Convex Optimization
- Gradient methods for Convex Optimization
- Second-order methods with provable global efficiency
- Efficient Interior-Point Methods
- Large graphs and networks

4. Fields of interest and expertise

- Black-Box Convex Optimization
- Theory of self-concordant functions and Interior-Point Methods
- General Nonlinear Optimization
- Positive polynomials and sums of squares
- Approximate solutions of combinatorial problems
- Equilibrium in transportation networks (models and algorithms)

5. International awards

Dantzig prize (2000): a triennial prize awarded by SIAM and Mathematical Programming Society for a research having a major impact on the field of mathematical programming.

6. Service to the community

- In different years, associate editor of Mathematical Programming, Optimization Methods and Software, Optimization and Engineering.
- Co-director of CORE (1999 - 2003).
- Organization of CORE Summer Schools on Optimization.
- Supervision of two theses.

7. Teaching

- Course on Nonlinear Optimization (INMA 2460).
- Course on Operation Research Models.

8. Invited and Plenary Lectures (last five years)

- International School on Optimization VOCAL2006. Vespem, Hungary, December 2006 (plenary speaker).
- International Symposium on Mathematical Programming. Rio-de-Janeiro, August 2006 (semi-plenary speaker).
- High-Performance Optimization. Delft, May 2006.
- International Conference on Semidefinite Programming. Singapore, January 2006 (invited speaker).
- Annual INFORMS meeting. San-Francisco, November 2005 (invited speaker).
- International conference on positive polynomials. Luminy, France. March 2005, (plenary speaker).
- International Workshop on Nonlinear Optimization. Oberwolfach, January 2005 (invited speaker).
- French-German-Spain conference on Operations Research. Avignon, France. September 2004, (plenary speaker).
- International conference "High Performance Optimization". Amsterdam. June 2004, (plenary speaker).
- International workshop on semidefinite programming. Waterloo, Canada. March 2004 (invited speaker).
- International symposium on mathematical programming, Copenhagen. August 2003 (invited speaker).
- International symposium on effective methods in algebraic geometry. Kaiserslautern. June 2003 (plenary speaker).
- International conference "High Performance Optimization ". Tilburg. June 2002, (plenary speaker).
- International Workshop on Positive Polynomials, Oberwolfach. February 2002 (invited speaker).
- International Workshop on Large-Scale Optimization, Oberwolfach. January 2002 (invited speaker).

9. Google Scholar citation index (<http://scholar.google.com>; 3/01/2007)

- *Interior Point Polynomial Methods in Convex Programming* - group of 2 »
Y Nesterov, A Nemirovsky - SIAM, Philadelphia, PA, 1994 - siam.org
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- *Interior-point polynomial algorithms in convex programming*
Y Nesterov, A Nemirovskij - 1994 - siam.org
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- *PRIMAL-DUAL INTERIOR-POINT METHODS FOR SELF-SCALED CONES*
YUE NESTEROV, MJ TODD - Oper. Res, 1997
Cited by **203**
- *Quality of Semidefinite Relaxation for Nonconvex Quadratic Optimization*
IUE Nesterov - 1997 - core.ucl.ac.be
Cited by **144**
- *Squared functional systems and optimization problems*
Y Nesterov... - High Performance Optimization, 2000
Cited by **88**
- *New variants of bundle methods*
C Lemaréchal, A Nemirovskii, Y Nesterov – Math.Programming, 1995
Cited by **81**
- *Self-Concordant Functions and Polynomial Time Methods in Convex Programming*
Y Nesterov, A Nemirovskii - CEMI, USSR Academy of ..., 1989
Cited by **61**
- *Interior-point polynomial methods in convex programming, volume 13*
Y Nesterov, A Nemirovsky - Studies in Applied Mathematics, 1994
Cited by **52**
- *Self-scaled barriers and interior-point methods for convex programming*
YE Nesterov, MJ Todd - Mathematics of Operations Research, 1997
Cited by **200**