MARINA V. POLYASHUK

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EDUCATION

1987 - 1990:	**Institute of Control Sciences of the USSR Academy of Sciences** Moscow, USSR *Ph.D. in Operations Research*
1973 - 1978	**Moscow Institute of Railway Transport Engineers** Moscow, USSR *B.S. in Applied Mathematics*

WORK EXPERIENCE

2006 – present:	**Northeastern Illinois University** Chicago, Illinois *Associate Professor of Mathematics*
2001 – 2006:	**Northeastern Illinois University** Chicago, Illinois *Assistant Professor of Mathematics*
1993 - 2001:	**Northeastern Illinois University** Chicago, Illinois *Instructor of Mathematics*
1994 - 2001:	**Roosevelt University** Chicago, Illinois *Instructor of Mathematics*
1993 - 2001:	**Oakton Community College** Des Plaines, Illinois *Instructor of Mathematics; Faculty Tutor of Mathematics*
1978 - 1993	**Institute of Control Sciences of the USSR Academy of Sciences** Moscow, USSR *Senior Research Scientist; Research Scientist; Junior Research Scientist; Engineer*

INVITED AND CONTRIBUTED TALKS

Presented original research work at the following venues:

- 24th International Conference on Multiple Criteria Decision Making (Ottawa, Canada, July 2017) (invited talk)
- The 7th Workshop on Mathematical and Statistical Modeling (NEIU, December 2015)
- The 5th Workshop on Mathematical and Statistical Modeling (NEIU, December 2014)
- INFORMS Annual Meeting (San Francisco, 2014) (invited talk)
- The 3rd Workshop on Mathematical and Statistical Modeling (NEIU, December 2013)
- INFORMS Annual Meeting (Phoenix, 2012) (invited talk)
- INFORMS Annual Meeting (Pittsburgh, 2006) (invited talk)
- INFORMS Annual Meeting (San Francisco, 2005) (invited talk)
- 17th International MCDM Conference (Canada, 2004) (refereed presentation)
- INFORMS Annual Meeting (Atlanta, October 2003)
- INFORMS Annual Meeting (Miami, November 2001)
- INFORMS Annual Meeting (San Antonio, November 2000)
- 35th ORSA-TIMS National Meeting (Chicago, 1993)
- EURO-TIMS Conference (Helsinki, 1992)
- 14th International Symposium on Mathematical Programming (Amsterdam, 1991)
- 9th International MCDM Conference (Fairfax, 1990)

SELECTED PUBLICATIONS

"Multi-Criteria Solutions for Optimizing Lineup in Baseball", submitted to the *Proceedings of the 7th International Conference on Mathematics in Sport*.

"Applying Intangible Criteria in Multiple Criteria Optimization Problems: Challenges and Solutions", a chapter for the book *Advanced Studies in MCDM,* 2018 (under review).

"Some Solutions for Baseball Manager's Problems: Choosing a Set of Starters in their Fielding Positions", *NEIU Technical Report # 15-1206, 2015*.

"Some Solutions for Baseball Manager's Problems", *NEIU Technical Report # 12-0923, 2012*.

"A Formulation of Portfolio Selection Problem with Multiple Criteria", in *Journal of Multi-Criteria Decision Analysis* 13, 2006.

"Some Results on Binary Preference Relations in Multiple Criteria

Optimization", *NEIU Technical Report 03-1212*, 2003.

"Binary Choice in Multiple Criteria Optimization as a Choice Function: Approximation of Preferences", *NEIU Technical Report # 02-1217*, 2002.

"Binary Choice in Multiple Analysis: Potential Applications", *NEIU Technical Report # 08-0505, 2005*.

"Relational Complementarity Problem", in *From Local to Global Optimization, Kluwer Academic Publishers*, 2001 (with G. Isac and M. Kostreva).

"Smooth Relations in Multiple Criteria Programming", in *Lecture Notes in Economics and Mathematical Systems 397, Springer Verlag, New York, 1993* (with V. Borzenko).

"Resolution of Dilemmas: A Mathematical Theory", in *Journal of Multicriteria Decision Analysis 2, 1993* (with M. Kostreva).

TEACHING EXPERIENCE

A partial list of courses taught at NEIU:

Undergraduate Courses:

- Calculus I
- Calculus II
- Calculus III
- Linear Algebra
- Applied and Computational Statistics
- Differential equations
- Probability and Statistics
- Linear Programming and Extensions
- Probability Models in Operations Research
- Introduction to Advanced Mathematics
- Number Theory
- Vector Calculus

Graduate Courses:

- Linear Programming: Theory and Practice
- Discrete Mathematical Structures
- Introduction to Stochastic Models
- Advanced Topics in Operation Research: Mathematical Programming
- Graduate Project in mathematics

SERVICE

EXPERIENCE   **A partial list of service responsibilities between 2001 and present:**

- Member of the NEIU Faculty Senate
- Member of the NEIU Faculty Awards Committee
- Member of the NEIU general Education Committee
- Member of the University Personnel Committee
- Member of the College Academic Affairs Committee
- Advisor to Mathematics Minors
- Advisor to Mathematics Majors
- Service Course Coordinator, Mathematics Department
- Associate Chair of Mathematics Department
- Member of four search and screen committees
- Chair of two search committees for positions in Mathematics
- Co-chair of Undergraduate Program Committee, Mathematics Department

AWARDS AND HONORS

- Faculty Excellence in Service Award, NEIU, 2015 – 2016
- Sabbatical Leave Award, NEIU, 2017 – 2018
- Research/Creative Activities Travel Awards, NEIU, years 2003, 2004, 2006, 2012, 2014, 2017

SOCIETY MEMBERSHIP/ Editorial Boards

- International Society on Multiple Criteria Decision Making (MCDM)
- Institute for Operations Research and the Management Sciences (INFORMS)
- Member of the Editorial Board, International Journal of Milticriteria Decision Making