

Curriculum vitae

MIRKO NAVARA

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Born 11th April, 1959 in Ledec nad Sázavou, Czechoslovakia (now Czech Republic)

WORK EXPERIENCE

Czech Technical University, Dept. of Cybernetics, Center for Machine Perception, Researcher: Responsibilities include: Research in nonstandard logics and applied mathematics, lectures in Fuzzy Logic, Numerical Analysis and Computer Algebra Systems. *August, 1996, through present.*

Czech Technical University, Dept. of Mathematics, Assistant Professor: Responsibilities included: Lectures in Numerical Analysis and Computer Algebra Systems, seminars in Linear Algebra, and Mathematical Analysis, preparation and supervision of laboratories on PCs and Apple Macintosh computers, preparation of educational computer programs. *September, 1987, through July, 1996.*

Czech Technical University, Dept. of Mathematics, Research Student: Responsibilities included: Seminars in Linear Algebra, Mathematical Analysis and Theory of Probability. *September, 1983, through August, 1987.*

EDUCATION

Full Professor in Applied Mathematics, Department of Cybernetics, Faculty of Electrical Engineering, Czech Technical University, October, 2005.

Doctor of Science in Mathematical Logic, Academy of Sciences of the Czech Republic, February 2001.

Docent (\sim Associate Professor) in Applied Mathematics, Department of Mathematics, Faculty of Electrical Engineering, Czech Technical University, October, 1996.

Candidate of Science (\sim PhD) in Mathematical Analysis, Department of Mathematics, Faculty of Electrical Engineering, Czech Technical University, April, 1988.

Diploma Engineer in Technical Cybernetics (specialization Control Engineering), Department of Control Engineering, Faculty of Electrical Engineering, Czech Technical University, July, 1983.

RESEARCH

Recent interest: Alternative models of probability based on quantum and fuzzy logics — algebraic and measure-theoretic aspects.

Working in the team “Mathematical Methods of Quantum Theories” since 1980.

Active participation at more than 50 international conferences.

Recipient of the grants:

PECO 3510PL922147 (European Community) “Quantum Logics and Orthomodular Lattices” (1993)

Aktion Österreich–Tschechien 16p12 “Intelligent Technologies in Signal Processing and Quality Control” (1997/98)

Grant Agency of the Czech Republic no. 201/97/0437 “Mathematical Models of Uncertainty” (1997–99)

Aktion Österreich–Tschechien 23p16 “Theory and Applications of Fuzzy Control” (1999)

Grant Agency of the Czech Republic no. 201/02/1540 “Many-valued logics for soft-computing” (2002–2004)

SELECTED PROFESSIONAL VISITS ABROAD

1989 Switzerland, University of Berne (2 weeks)

1993 France, University of Lyon I (3 months, EC grant PECO)

1995 Austria, Johannes Kepler University Linz (1 month, stipendium Aktion Österreich–Tschechische Republik)

1995 Greece, University of Patras (1 week)

1996 Italy, University “Federico II”, Napoli (1 month)

1996 Israel, University of Haifa (1 week)
1997 Slovakia, Slovak Technical University, Bratislava (1 month)
1997 USA, New Mexico State Univ., Las Cruces (2 weeks)
1998 Austria, Johannes Kepler University Linz (3 weeks)
1999 USA, New Mexico State Univ., Las Cruces (2 weeks)
1999 France, University of Lyon I (1 month)
2000 Slovakia, Slovak Technical University, Bratislava (1 month)
2000 Italy, University of Milan (1 week)
2000 Italy, University of Udine (1 week)
2001 Italy, University “Federico II”, Napoli (2 weeks)
2003 Austria, Johannes Kepler University Linz (1 month)
2003 Slovakia, Slovak Technical University, Bratislava (1 month)
2003 Italy, University of Salerno (1 month)
2004 Austria, Johannes Kepler University Linz (1 month)
2004 Germany, Technical University of Dortmund (2 weeks)

SELECTED PUBLICATIONS

Over 150 journal and conference papers, including

- Characterization of measures based on strict triangular norms. *J. Math. Anal. Appl.* **236** (1999), 370–383.
- Embeddings into orthomodular lattices with given centers, state spaces and automorphism groups. *Order* 17 (2000), No. 3, 239–254 (with J. Harding).
- Orthomodular lattices with rich state spaces. *Algebra Universalis* **43** (2000), 1–30 (with R. Mayet and V. Rogalewicz).
- Fuzzy controllers with conditionally firing rules. *IEEE Trans. Fuzzy Systems* **10** (2002), No. 3, 340–348 (with B. Moser).
- Triangular norms and measures of fuzzy sets. In: E. P. Klement and R. Mesiar (eds.), *Logical, Algebraic, Analytic, and Probabilistic Aspects of Triangular Norms*, Elsevier, 2005, 345–390.

AWARDS

- “Prize for Scientific Achievement”, awarded by the International Quantum Structures Association, 1996,
“Award for an Excellent Research Achievement” from the rector of the Czech Technical University, 2004.

ACTIVITIES

Member of the Editorial Board of Tatra Mountains Mathematical Publications, since 1998

International Quantum Structures Association, 1991 (member of the Council, 2001–04, member of the Nominating Committee, 1996–2001 and since 2004)

American Mathematical Society, 1994

Association of Czech Mathematicians and Physicists, 1988

European Society for Fuzzy Logic and Technology, 1998

Czech Society for Cybernetics and Informatics, 1999 (member of the Committee, since 2003)

Sisyfos (Czech Sceptics Club), 1998

Mensa of the Czech Republic, 2004

LANGUAGES

English fluent, Russian fluent, French fair, Italian fair, German passive.

Praha, June 1, 2006