



Brunella Gerla

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Contact data

Assistant Professor

Department of Computer Science and Communication

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Biography

Born in Napoli on 1-11-1973.

In January 1996 graduated magna cum laude in Mathematics at the University of Napoli, Italy.

I received the Ph.D. in Computer Science from the University of Milan, Italy, on January 2002. The title of my Ph.D. thesis was: "Many-valued logics based on continuous t-norms and their functional representation", and my supervisor was Professor Daniele Mundici .

From November 2002 to October 2005 I was Assistant Professor in Mathematical Logic at the Department of Mathematics and Informatics at the University of Salerno.

Currently I am Assistant Professor in Mathematical Logic at the Department of Computer Science and Communication at the University of Insubria, Varese.

Assistant Editor of Soft Computing journal, edited by Springer.

Research interests

Many-valued and fuzzy logics:

- Algebraic structures related with many-valued propositional logics
- Functional description
- MV-algebras and semirings - automata over MV-algebras
- Proof-theoretical aspects;

- Logic of uncertainty;

- Probability of fuzzy events;

- Fuzzy control and fuzzy neural networks.

Teaching experience and appointments

I taught Mathematical Logic in the master program of Mathematics and Computer Science. Currently I teach Algorithms (Laboratorio di Algoritmi e Strutture Dati).

Representative publications

- S. Aguzzoli, Gerla B., Manara C. (2005). Poset Representation for Godel and Nilpotent Minimum Logics. Lecture Notes in Computer Science. Proceedings of ECSQARU05. vol. LNAI 3571, pp. 662-674.

- S. Aguzzoli, Gerla B., Z. Hanikova. (2005). Complexity issues in Basic Logic. *Soft Computing*. vol. 9, pp. 919-934.
- A. Di Nola, B. Gerla. Algebras of Lukasiewicz logic and their semiring reducts , 131--144, *Contemp. Math.*, 377, Amer. Math. Soc.
- P. Amato, A. Di Nola, B. Gerla. Neural Networks and Rational Lukasiewicz Logic, *Journal of multiple-valued logic and soft computing*, 11 (2005), no. 1-2, 95--110.
- P. Cintula, B. Gerla Semi-normal forms and functional representation of product fuzzy logic, *Fuzzy Sets and Systems*, 143:1, pag 89, 2004.
- A. Di Nola, B. Gerla. A discrete free MV-algebra over one generator. *Journal of Applied non-classical logic*, vol. 11, pp.331-339 (2001).
- B. Gerla. A Note on Functions Associated with Gödel Formulas, *Soft Computing* , vol 4 (2000), 206-209.
- B. Gerla. Conditioning a state by a Lukasiewicz event: a probabilistic approach to Ulam games. *Theoretical Computer Science*, vol 230, pp.149-166 (2000).
- B. Gerla. MV-algebras, multiple bets and subjective states. *International Journal of Approximate Reasoning*, vol 25, pp. 1-13 (2000).