

Call for Papers: Logic, Algebra and Truth Degrees 2010
September 7–11, Prague, Czech Republic
First announcement

Logic, Algebra and Truth Degrees is the second official meeting of the EUSFLAT Working Group on Mathematical Fuzzy Logic (www.mathfuzzlog.org).

Mathematical Fuzzy Logic is a subdiscipline of Mathematical Logic which studies the notion of comparative truth. The assumption that “truth comes in degrees” has proved to be very useful in many, both theoretical and applied, areas of Mathematics, Computer Science and Philosophy.

The main goals of this meeting are to foster collaboration between researchers in the area of Mathematical Fuzzy Logic and to promote communication and cooperation with members of neighbouring fields.

The featured topics include, but are not limited to, the following:

- **Proof systems for fuzzy logics:** Hilbert, Gentzen, natural deduction, tableaux, resolution, computational complexity, etc.
- **Algebraic semantics:** residuated lattices, MTL-algebras, BL-algebras, MV-algebras, Abstract Algebraic Logic, functional representation, etc.
- **Game-theory:** Giles games, Renyi-Ulam games, evaluation games, etc.
- **First-order fuzzy logics:** axiomatizations, arithmetical hierarchy, Model theory, etc.
- **Higher-order fuzzy logical systems:** type theories, Fuzzy Class Theory, and formal fuzzy mathematics.
- **Philosophical issues:** connections with vagueness and uncertainty.
- **Applied fuzzy logical calculi:** foundations of fuzzy logical programming, logic-based reasoning about similarity, fuzzy description logics, etc.

We also welcome contributions on any relevant aspects of related logical systems (such as substructural and quantum logics, and many-valued logics in general).

Programme Committee

- Petr Hájek (Chair), Czech Republic
- Antonio Di Nola, Italy
- Christian Fermüller, Austria
- Siegfried Gottwald, Germany
- Daniele Mundici, Italy
- Carles Noguera, Spain

Invited speakers

- Arnon Avron, Israel
- Félix Bou, Spain
- Agata Ciabattoni, Austria
- Roberto Cignoli, Argentina
- Ioana Leuştean, Romania
- Franco Montagna, Italy
- James G. Raftery, South Africa
- Hiroakira Ono, Japan

Tutorials

- George Metcalfe, Switzerland — Proof theory for fuzzy logics
- Vilém Novák, Czech Republic — Mathematical fuzzy logic in linguistic semantics

If you are interested in presenting a paper, please submit a 2–4 pages abstract at <http://www.easychair.org/conferences/?conf=latd2010>. Your submission will be confirmed automatically on the e-mail address you provide. The accepted abstracts will be available on-line after the final decision of the program committee. If you have any problems to submit an abstract, please contact us at mail to: latd2010@mathfuzzlog.org

The deadline for contributions is 20th March 2010. The notification of acceptance/rejection will be sent until 30th April 2010.

For further information please visit the official web page of the conference: <http://www.mathfuzzlog.org/latd2010>. All correspondence should be directed to latd2010@mathfuzzlog.org

Please, feel free to distribute this call.

The Organizing Committee

Petr Cintula (Chair), Petra Ivaničová, Karel Chvalovský, Milan Petřík