Research Tools

JOURNAL OF NON-CLASSICAL LOGICS

The *Journal of Applied Non-Classical Logics* is an international tribune which aims at promoting the development of non-classical logics in Computer Science, with contributions ranging from mathematical foundations of such logics to their applications in Computer Science.

Non-classical logics cover a large variety of formalisms such as: modal logics, temporal logics, epistemic logics, conditional logics, intermediate logics, non-monotonic logics, logics of vagueness, logics of uncertainty, relevance logics, paraconsistent logics, multivalued logics, logics of programs, etc.

The following areas, among other topics, are relevant for the *Journal of Applied Non-Classical Logics*:

Formal aspects of non-classical formalisms (completeness, decidability, complexity...); Applications of non-classical logics to Artificial Intelligence and Cognitive Science (knowledge representation, automated reasoning, natural language); Theoretical Computer Science (program verification, program synthesis...)

Applications to other domains are welcome if they illustrate the usefulness of non-classical logics.

The journal will be published twice yearly with regular papers describing original work or high quality synthesis work, short research notes, position papers, a problem section, information about meetings and conferences, call for papers, and book reviews.

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Volume 1, no. 2 (1991)

This issue of the *Journal of Applied Non-Classical Logics* contains the updated proceedings of a Seminar held in Rocamadour (France) in 1988 and that was entirely devoted to discussions among specialists of numerical as well as symbolic approaches to automated reasoning under incomplete or uncertain information. It will be an unusual journal issue because consisting of printed discussions rather than contributed papers. Three topics will be addressed: numerical models of uncertainty, non-monotonic logics, and conditionals. This issue can be viewed altogether as an informal introduction to currently hot topics in non-classical logics, a debate on the future of these topics, and a manifesto of various schools of thought that acknowledge their common interest in non-classical logics as a new and important emerging paradigm of information technology.

SPECIAL ISSUE

Uncertainty Conditionals and Non-Monotonicity – Positions and Debates in Non-Standard Logics

Guest Editors: Michael R. B. Clark, Christine Froidevaux, Eric Grégorie, Philippe Smets. With the collaboration of Ph. Besnard, G.Brewka, J-P. Delgrande, D. Dubois, P. Garbolino, P. Gärdenfors, P. Gochet, D. Kayser, H. Kyburg, B. Marchal, R. Moore, G. Paass, H. Prade, E. Ruspini, A. Saffiotti, P. Siegel, F. Veltman.

Contents:

Patrick Doherty, Witold Łukaszecicz, *NML3 – a non-monotonic logic with explicit defaults*

Walter A. Carnielli, Mamede Lima-Marques, *Reasoning under Inconsistent Knowledge*

Wiebe van der Hoek, *On the semantics of graded modalities*

Forthcoming papers:

Alfredo Burrieza, Inma P. de Guzman, *A new algebraic semantics approach and some connectives adequate for computation with temporal logic cover discrete time*

Ewa Orlowska, *Dynamic logic with program specifications and its relational proof system*

Stephan Merz, *Decidability and incompleteness results for first-order temporal logics of linear time*

D.M. Gabbay, U. Reyle, *Computation with run time Skolemisation (N-Prolog Part 3)*

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