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CONNECTIONS BETWEEN LOGIC
AND COMBINATORIAL TOPICS
with emphasis on probabilistic aspects
and bounded proof length

in the Journal
Discrete Applied Mathematics

Guest Editors
J. Michael Dunn, John V. Franco, William H. Wheeler

Topics of interest include, but are not limited to:

Resource Bounded Proof Theory
- Upper and/or lower bounds on the number of steps required by proofs in some logic system.
- Probabilistic upper and/or lower bounds on the number of steps required to prove random instances.
- Properties of families of instances with a limit on the number of times an assumption may be used, or on the number of different bound variables allowed.
- Probabilistic analysis of algorithms for the satisfiability problem.

Comparison of Systems/Problems
- Proofs in logic system $A$ are much shorter than proofs in logic system $B$ (almost always).
- Proofs of tautology must be at least some amount longer than proofs of satisfaction (almost always).
- Why are certain combinatorial theorems unprovable in certain formal systems?
- Relationship between unprovability and combinatorial properties of instances.

Other Topics
- Logical aspects of circuit-based complexity models.
- Group theoretic invariance of Boolean functions, with connections to parallel complexity.
- Computability over the real number system, applied to develop complexity measures for numerical algorithms.
- 0-1 laws for first order and higher order logics on finite graphs and other combinatorial structures.

To assure consideration, please send three copies of all submissions to one of the editors below by August 1, 1989:

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William H. Wheeler  
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Bloomington, IN 47405
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of the Austrian Ludwig Wittgenstein Society

IN KIRCHBERG/WECHSEL, LOWER AUSTRIA

FROM August 13th – August 20th, 1989

Wittgenstein: Towards a re-evaluation

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Those planning to attend the conference should contact Dr. A. Hübner at the above address for further information. The final date for registrations is July 31st, 1989. Conference fees will be 1.200,— Austrian Schillings for non-students and 400,— Austrian Schillings for students. If payment is made before April 30th, 1989, a charge for handling will be deducted. For information in the USA and Canada please contact Prof. Philip Hugly, Department of Philosophy, University of Nebraska, Lincoln, NE 68588, USA, Tel. (402) 472 2425.

Up to six graduate or undergraduate academic credits may be earned in conjunction with attendance at this conference. For more information contact Professor R. L. Burr, University of Southern Mississippi, MS 39406-5015, or phone (601) 266 4518.

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