
NOTRE DAME JOURNAL OF FORMAL LOGIC

Editors

Michael Detlefsen Mark E. Nadel
John P. Burgess Anand Pillay
William W. Tait

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The *Journal* aims to provide a common ground where both philosophers and mathematicians can read and publish significant work on all areas of philosophical and mathematical logic; philosophy of language and formal semantics for natural languages; and the philosophy, history, and foundations of logic and mathematics.

Upcoming contributions include:

- Albert Visser Peano's smart children:
A provability logical study
of systems with built-in
consistency
- Fred Sommers Predication in the logic
of terms
- John Hawthorn Natural deduction in normal
modal logic

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business manager, Jan Houseman.

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Call for Papers

SPECIAL ISSUE

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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In Co-operation with the Federal Ministry of Science and Research:

Centenary Celebration
FOURTEENTH
INTERNATIONAL
WITTGENSTEIN
SYMPOSIUM

of the Austrian Ludwig Wittgenstein Society
IN KIRCHBERG/WECHSEL, LOWER AUSTRIA
FROM August 13th – August 20th, 1989

Wittgenstein: Towards a re-evaluation

Participants include:

K. O. Apel (Frankfurt), D. Birnbacher (Essen), S. Blackburn (Oxford), J. Bouveresse (Paris), J. Brandl (Graz), H. Burkhardt (Erlangen), J. Canfield (Toronto), A. Casullo (Nebraska), R. M. Chisholm (Rhode Island), D. Davidson (Berkeley), A. Degutis (Vilnius), R. Egidi (Rom), K. R. Fischer (Wien), G. Frongia (Rom), A. Gargani (Pisa), N. Garver (Buffalo), St. Gerrard (Boston), B. Gert (Hannover), R. Haller (Graz), O. Hanfling (Oxford), Hao Wang (New York), L. Hertzberg (Abo), J. Hintikka (Tallahassee), H. Hrachovec (Wien), H. Ishiguro (New York), A. Janik (Innsbruck), H. Jensen (Tucson), K. Johannessen (Bergen), V. Karpovich (Novosibirsk), A. Kasher (Tel Aviv), A. Kemmerling (München), St. Körner (Bristol), S. Kripke (Princeton), F. v. Kutschera (Regensburg), W. Leinfellner (Wien), K. Lorenz (Saarbrücken), W. Lütterfelds (Passau), A. Margall (Jerusalem), C. McGinn (Oxford), B. McGuinness (Oxford), G. Meggle (München), K. Mulligan (Genf), J. Meloe (Tromsø), E. Nekrasas (Vilnius), K. Nielsen (Calgary), T. Nordenstam (Bergen), J. C. Nyiri (Budapest), M. Oku (Osaka), L. Perrisino (Vittorio Veneto), P. Pettit (Canberra), A. Plantinga (Notre Dame), C. Radford (Boulder), Ren-Zong Qiu (Peking), V. Rossvaer (Tromsø), H. Rutte (Graz), E. v. Savigny (Bielefeld), J. Schulte (Bologna), P. Simons (Salzburg), H. Sluga (Berkeley), B. Smith (Manchester), A. Stroll (San Diego), B. Stroud (Berkeley), St. Toulmin (Evanston), Tscha Hung (Peking), H. Visser (Rotterdam), A. Vohra (New Delhi), M. Wedin (Davis), G. Weiler (Tel Aviv), P. Weingartner (Salzburg), T. Williamson (Oxford), B. Wolniewicz (Warszawa), G. H. v. Wright (Helsingfors), K. Wuchterl (Stuttgart).

Scholars wishing to present a paper within the speaking time of 30 minutes should request an abstract style sheet from the Austrian Ludwig Wittgenstein Society, A-2880 Kirchberg/Wechsel, Markt 2, Austria, Tel. 02641/2280 or 2557. The deadline for receipt of abstracts is May 31st, 1989. Official languages will be English and German. A decision on which papers are to be accepted will be made not later than June, 10th, 1989.

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. From that date on the rate increases to AS 1.400,— for non-students, and to AS 450,— for students. Reimbursement of conference fees is possible only until July 31st, 1989; a charge for handling will be deducted. For information in the USA and Canada please contact Prof. Phillip 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.

Several social and cultural events will accompany the main programme.

Banking account: Österreichische Ludwig Wittgenstein Gesellschaft, Raiffeisenkasse Kirchberg/Wechsel, Konto Nr. 10.611.

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(Jan Houseman)

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The *Journal* encourages submission of articles in all areas of philosophical and mathematical logic; philosophy of language and formal semantics for natural languages; and the philosophy, history, and foundations of logic and mathematics.

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