The 1975 INTERNATIONAL SYMPOSIUM ON MULTIPLE-VALUED LOGIC continues to bring together those having interests related to the theory and applications of multiple-valued logic.

This ADVANCE PROGRAM provides an early schedule indicating the variety of interest areas for papers and some of the distinguished participants from different countries. This FIFTH ANNUAL SYMPOSIUM is supported by the following organizations: ACM, Indiana University

IEEE Computer Society
Society for Exact Philosophy
U.S. Office of Naval Research

Tuesday, May 13, evening
- Registration

Wednesday, May 14, morning
- Welcome to Indiana University
- Welcome Address by the President of the International Society and Organizing Group for Multiple-Valued Logic: G. Epstein (U, USA)

CHAIRMAN: L. Zadeh (UCB, USA)
Invited Address: R. Bellman (USC, USA), Local Logics

CHAIRMAN: E. Santos (Youngstown SU, USA)
1. R. Giles (Queen's U, CAN), Lukasiewicz logic and fuzzy set theory
2. D. Rine (WVU, USA), Associative and multi-valued logic techniques to improve some X-ray image processing
3. H. Wechsler (UCI, USA), Applications of fuzzy logic to medical diagnosis
4. Y. Pao and F. Merat (Case WRU, USA), Distributed associative memory for patterns
5. P. Schotch (Dalhousie U, CAN), Fuzzy modal logic

Wednesday, May 14, afternoon
CHAIRMAN: P. Haimos (IU, USA)
- Invited Address: P. Dwinger (U III. Chicago, USA), Recent developments in the theory of Post algebras

CHAIRMAN: M. Allen (UNCC, USA)
1. E. DuCasse (CUNY, USA), Reducibility of Post functions
2. R. Cignoli (U III. Chicago, USA), Free non-symmetric n-valued Lukasiewicz algebras
3. J. Loader (Brighton Polytechnic, ENG), Second order and higher order universal decision elements in m-valued logic
4. G. Malinowski (Lodz U, POL), Matrix representation for the dual counterparts of Lukasiewicz m-valued sentential calculus and the problem of their degrees of maximality
5. S. Hu (Cleveland SU, USA), A ternary algebra for probability computation of digital circuits

Thursday, May 15, evening
- Banquet

Friday, May 16, morning
CHAIRMAN: A. Tsarki (UCB, USA)
- Invited Address: H. Rasiowa (U Warsaw, POL), Multiple-valued algorithmic logics as a tool to investigate programs

CHAIRMAN: T. Traczyk (Warsaw Tech, U, POL)
1. R. Grigolia (Tbilisi U, USSR), On the algebras corresponding to the n-valued Lukasiewicz-Tarski logical systems
2. I. Rosenberg, (CAN), Functional completeness in heterogeneous multiple-valued logics
3. R. Wojcicki (Wrocław U, POL), A theorem on the finiteness of the degree of maximality of the n-valued Lukasiewicz logic
4. J. Nazarala & C. Moraga (U Chile Santiago, CHILE & U Santa Maria, CHILE), Bilinear separation of ternary functions
5. J. Kabzinski & A. Wronski (Jagiellonian U., Cracow, POL), On equivalent algebras
6. B. Matlal (U Toronto, CAN), On the Navy-Nyaya logic of property and location
7. D. Ulrich (Purdue U, USA), Many-valued logics with non-many-valued extensions—two examples

Friday, May 16, afternoon
CHAIRMAN: B. Sobociński (Notre Dame U, USA)
- Invited Address and Welcome by the President of the Society for Exact Philosophy to its Annual Meeting: N. Belnap, Jr. (U Pittsburgh, USA), A useful four-valued logic

CHAIRMAN: S. Surma (Jagiellonian U., Cracow, POL)
1. J. McCawley (U Chicago, USA), Truth functionality and natural deduction
2. J. Muzio (U Manitoba, CAN), Ternary two-place functions that are complete with constants
3. H. Leblanc (Temple U, USA), A completeness theorem for 3-valued logic with quantifiers
4. H. Ellis (IBM T. J. Watson Res. Center, USA) and Y. Piny (NCSU, USA), The linearity property and functional completeness in M-valued logic
5. C. Morgan (U Alberta, CAN), Similarity as a theory of graded equality for a class of many-valued algebras
6. H. Herzberger (U Toronto, CAN), Supervaluations in two dimensions

Today, May 15, evening
- The annual meeting of the Society for Exact Philosophy continues into the weekend

To register: Send symposium registration coupon from facing page.

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