

18th Workshop on Logic, Language, Information and Computation – WoLLIC 2011
University of Pennsylvania
Philadelphia, May 18 – 20, 2011

All talks will be held in the David Rittenhouse Laboratory, on the SE corner of Walnut and 33rd Streets, on the ground floor in the back, in room A-6. The main entrance to the building is on the East side of 33rd Street, a few steps South of Walnut Street.

Wednesday, May 18, 2011

- 8:00 Light breakfast and registration
- 8:45 Opening remarks
- 9:00 - 10:00 Invited lecture. V. Voevodsky (Institute for Advanced Study):
UNIVALENT FOUNDATIONS OF MATHEMATICS
- 10:00 - 10:30 R. Statman (Carnegie Mellon Univ.): POLYMORPHIC TYPINGS OF UNTYPED TERMS
- 10:30 - 11:00 Coffee break and registration
- 11:00 - 11:30 R. Clouston (Australian National Univ.): NOMINAL LAWVERE THEORIES
- 11:30 - 12:00 F.-J. de Vries (Univ. of Leicester) and P. Severi (Univ. of Leicester):
DECOMPOSING THE LATTICE OF MEANINGLESS SETS IN THE INFINITARY LAMBDA CALCULUS
- 12:00 - 12:30 D.S. Shamkanov (Lomonosov Moscow State Univ.):
STRONG NORMALIZATION AND CONFLUENCE FOR REFLEXIVE COMBINATORY LOGIC
- 12:30 - 2:00 Lunch break
- 2:00 - 3:00 Invited lecture. M. Zakharyashev (Birkbeck College, Univ. of London):
LOGIC IN THE TIME OF WWW: AN OWL VIEW
- 3:00 - 3:30 J. Gutierrez (Univ. of Edinburgh): CONCURRENT LOGIC GAMES ON PARTIAL ORDERS
- 3:30 - 4:00 Coffee break
- 4:00 - 4:30 J. Kontinen (Univ. of Helsinki) and J. Szymanik (Univ. of Groningen):
CHARACTERIZING DEFINABILITY OF SECOND-ORDER GENERALIZED QUANTIFIERS
- 4:30 - 5:00 S. Bucheli (Univ. of Bern), R. Kuznets (Univ. of Bern), and T. Studer (Univ. of Bern):
PARTIAL REALIZATION IN DYNAMIC JUSTIFICATION LOGIC
- 5:00 - 5:30 A. Achilleos (City Univ. of New York Graduate Center):
A COMPLEXITY QUESTION IN JUSTIFICATION LOGIC

Thursday, May 19, 2011

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- 8:30 Light breakfast
- 9:00 - 10:00 Invited lecture. Y. Winter (Utrecht Univ.):
RELATIONAL CONCEPTS AND THE LOGIC OF RECIPROCITY
- 10:00 - 10:30 C. Thorne (Free Univ. of Bolzano-Bozen): QUERYING THE FRAGMENTS OF ENGLISH
- 10:30 - 11:00 Coffee break
- 11:00 - 11:30 I. Yanovich (MIT): HOW MUCH EXPRESSIVE POWER IS NEEDED FOR NATURAL LANGUAGE
TEMPORAL INDEXICALITY?
- 11:30 - 12:00 S. Figueira (Univ. of Buenos Aires), D. Gorín (Univ. of Buenos Aires), and R. Grimson
(Univ. of Buenos Aires):
ON THE EXPRESSIVE POWER OF IF-LOGIC WITH CLASSICAL NEGATION
- 12:00 - 12:30 P. Verdée (Univ. of Ghent): STRONG PARAConsistency BY SEPARATING COMPOSITION
AND DECOMPOSITION IN CLASSICAL LOGIC
- 12:30 - 2:00 Lunch break
- 2:00 - 3:00 Invited lecture. M. Kanovich (Queen Mary, Univ. of London):
BOUNDED MEMORY DOLEV-YAO ADVERSARIES IN COLLABORATIVE SYSTEMS
- 3:00 - 3:30 G. Mints (Stanford Univ.): COUNTABLE VERSION OF OMEGA-RULE
- 3:30 - 4:00 Coffee break
- 4:00 - 4:30 C. Areces (INRIA Nancy), F. Carreiro (Univ. of Buenos Aires),
S. Figueira (Univ. of Buenos Aires), and S. Mera (Univ. of Buenos Aires):
BASIC MODEL THEORY FOR MEMORY LOGICS
- 4:30 - 5:00 F.M. Ferreira (Federal Univ. of Ceará), C.M. Freire (Univ. of São Paulo –
São Carlos), M.R.F. Benevides (Federal Univ. of Rio de Janeiro), L. Menasché
Schechter (Federal Univ. of Rio de Janeiro) and A.T. Martins (Federal Univ. of
Ceará):
HYBRID LOGICS AND NP GRAPH PROPERTIES
- 5:00 - 5:30 A. Horn (Magdalen College School, Oxford): DYNAMIC EPISTEMIC ALGEBRA WITH
POST-CONDITIONS TO REASON ABOUT ROBOT NAVIGATION

Friday, May 20, 2011

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- 8:30 Light breakfast
- 9:00 - 10:00 Invited lecture. R. Alur (Univ. of Pennsylvania): STREAMING STRING TRANSDUCERS
- 10:00 - 10:30 C. Jordan (Hokkaido Univ.) and T. Zeugmann (Hokkaido Univ.):
UNTESTABLE PROPERTIES IN THE KAHR-MOORE-WANG CLASS
- 10:30 - 11:00 Coffee break
- 11:00 - 11:30 M. Donders (McDaniel College), S. Miner More (McDaniel College),
and P. Naumov (McDaniel College):
INFORMATION FLOW ON DIRECTED ACYCLIC GRAPHS
- 11:30 - 12:00 F. Ferrarotti (Victoria Univ. of Wellington), S. Hartmann (Clausthal Univ. of Technology),
H. Koehler (Univ. of Queensland), S. Link (Victoria Univ. of Wellington), and M. Vincent
(Univ. of South Australia):
THE BOYCE-CODD-HEATH NORMAL FORM FOR SQL
- 12:00 - 12:30 N. Charlton (Univ. of Sussex):
HOARE LOGIC FOR HIGHER ORDER STORE USING SIMPLE SEMANTICS
- 12:30 - 2:00 Lunch break
- 2:00 - 2:30 A. da Cunha (Univ. of Michigan):
TURING MACHINES ON CAYLEY GRAPHS
- 2:30 - 2:45 Short talk. N. Gierasimczuk (Univ. of Groningen):
INDUCTIVE INFERENCE AND EPISTEMIC LOGIC: AN OVERVIEW
- 2:45 - 3:00 Short talk. S.R.M. Veloso (State Univ. of Rio de Janeiro), P.A.S. Veloso (Federal
Univ. of Rio de Janeiro), and P.M. Veloso (Federal Univ. of Minas Gerais):
ON PIAGET-LIKE MONOIDS: STRUCTURE AND CHARACTERIZATION
- 3:00 - 3:20 Coffee break
- 3:20 - 4:20 *Special Session Honoring M. Kanovich on the Occasion of His 65th Birthday*
- M. Okada (Keio Univ.): SOME SOURCES OF TERM REWRITING LOGIC AND
DIAGRAMMATIC LOGIC IN THE HUSSERL-HILBERT INTERACTION AND IN EULER
- P. Rowe (Mitre Corp.): THE CRYPTOGRAPHIC PROTOCOL SHAPES ANALYZER (CPSA)
- 4:20 - 4:30 Coffee break
- 4:30 - 5:30 Invited lecture. J.C. Mitchell (Stanford University):
A SYMBOLIC LOGIC WITH EXACT BOUNDS FOR CRYPTOGRAPHIC PROTOCOLS
- 6:30 Conference banquet