

CLE 30 / XV EBL / XIV SLALM

PROGRAM

May 11, 2008
Room 1 – Casa da Cultura

18:00-19:00 – OPENING SESSION

Chairman: Walter Carnielli

19:00-20:00 – Invited Talk

Raymond SMULLYAN (USA)
Coercive Logic and Other Matters

20:00 – Cocktail

May 12, 2008
Room 1 – Casa da Cultura

Invited Talks

Chairman: Xavier Caicedo

09:00-09:50 – Aldo FIGALLO (Universidade Nacional del Sur/Universidad Nacional de San Juan, Argentina)
Monteiro. Nelson and Markov Logic, Nelson Algebras, Ockham-Nelson Algebras

09:50-10:40 – Atocha ALISEDA (Universidade Nacional Autónoma de México, Mexico)
Logic and Knowledge: the case of Abduction

10:40-11:10 – Coffee-break

11:10-12:00 – Arnon AVRON (Tel-Aviv University, Israel)
Non-Deterministic Semantics for Paraconsistent Logics

12:00-12:50 – Gregorio CHAITIN (IBM Research, USA)
Leibniz, Complexity and Incompleteness

Chairman: Raymundo Morado

18:40-19:30 – Oswaldo CHATEAUBRIAND (PUC-RJ)
A Theory of Predication and Some Applications

Room 1 – Casa da Cultura Philosophy of Mathematics

Chairman: Javier Legris

14:30-14:55 - *Leibniz's Science of Forms as a Structural Science and Similarity as its Central Concept*
Oscar M. ESQUISABEL

14:55-15:20 - *Schematism and Hierarchical Subsumption in Klein's Erlanger Program*
Luciana GARBAYO

15:20-15:45 - *Finitism in Metamathematics of Hilbert Program*
Claus AKIRA H. MATSUSHIGUE

15:45-16:10 - *Wittgenstein, Dizimas Periódicas e Correção Cruzada*
André PORTO

16:10-17:00 - Coffee-break

Logic Surrounding

17:00-17:25 - *Lógica Operatória e a Gênese da Estruturação Lógica do Real*
Ricardo TASSINARI

17:25-17:50 - *Contributions of Ryle's Categorical Analysis for the Philosophy of Mind*
C. BLASSIO, M.M. LAURO and R.C.L. BIGONHA

17:50-18:15 - *Information and Meaning: a Systemic Self-Organizing Approach*
Maria Eunice Q. GONZALES

Room 2 – Villas de Paraty Pousada Semantics and Interpretation

Chairman: Juliano Maranhão

- 14:30-14:55 - *An Algebraic Perspective on Valuation Semantics*
Carlos CALEIRO and Ricardo GONÇALVES
- 14:55-15:20 - *Covering Logics via Possible-Translations*
Teófilo REIS and Marcelo E. CONIGLIO
- 15:20-15:45 - *Expressiveness and Definability in Circumscription*
Francicleber MARTINS FERREIRA and Ana Teresa MARTINS
- 15:45-16:10 - *The 'Lottery Paradox' Paradox: an extension semantics for dealing with this and other self-attacking arguments*
Gustavo A. BODANZA
- 16:10-16:35 - *On Some Notions of Intensional Logic*
Roderick BATCHELOR
- 16:35-17:00 - Coffee-break
- 17:00-17:25 - *Iterated Ramsey Test Conditionals*
David ETLIN
- 17:25-17:50 - *Combining Knowledge and Contingency*
Alexandre COSTA LEITE
- 17:50-18:15 - *A Four-Valued Logic for Reasoning about Finite and Infinite Computation Errors in Programs*
Beata KONIKOWSKA

Room 3 – Parque Hotel Perequê Proof Schemes and Proof Theory

Chairman: Daniel Durante Pereira Alves

- 14:30-14:55 - *Goal-Directed Tableaux*
Joke MEHEUS
- 14:55-15:20 - *A Irrelevância Lógica da Distinção entre Sujeito e Predicado: uma Abordagem Visual*
Frank Thomas SAUTTER
- 15:20-15:45 - *Intuitionistic Sequent System with Multiple Succedent*
María Fernanda PALLARES
- 15:45-16:10 - *Automatic Extraction of Axiomatizations in Terms of Two-signed Tableaux for Finite-valued Logics*
Dalmo MENDONÇA and João MARCOS
- 16:10-16:35 - *Strategies. What's in a Name?*
Dagmar PROVIJN
- 16:35-17:00 - Coffee-break
- 17:00-17:25 - *Regras Esquemáticas em Dedução Natural para Lógicas com Operadores Modais*
Alexandre SILVA CAVALCANTE and Ana Teresa MARTINS
- 17:25-17:50 - *Diagramas, Restrições Operacionais e Visualização*
Sérgio SCHULTZ
- 17:50-18:15 - *Minimal Axiomatizations and Algebraic Rings: a Conjectured Relationship*
Marcelo FINGER and Walter CARNIELLI

May 13, 2008
Room 1 – Casa da Cultura

Invited Talks

Chairman: Joan Bagaria

09:00-09:50 – Xavier CAICEDO (Universidad de los Andes, Colombia)
Uniformizable Logics

09:50-10:40 – José M. TURULL-TORRES (Massey University, New Zealand)
Higher Order Logics on Finite Relational Structures

10:40-11:10 – Coffee-break

11:10-12:00 – E.G.K. LÓPEZ-ESCOBAR (University of Maryland, USA)
Anthropic Logical Principles in Formal Languages

Chairman: Oswaldo Chateaubriand

18:40-19:30 – John CORCORAN (University at Buffalo, USA)
Sentence, Proposition, Judgment, Statement and Fact: Speaking about the Written English Used in Logic

Room 1 – Casa da Cultura Foundational and Philosophical Aspects of Logic

Chairman: Oswaldo Chateaubriand

14:30-14:55 - *Linear Logic, Cut Elimination and Coherent Systems*
Elaine PIMENTEL

14:55-15:20 - *Semantic Self-Sufficiency and Unrestricted Quantification*
Eduardo A. BARRIO

15:20-15:45 - *A Quantificational Approach to Truth*
Catarina DUTILH NOVAES

15:45-16:10 - *What is Logic About? The Geometric Analogy*
Luis ESTRADA-GONZÁLEZ

16:10-16:35 - *Acerca da Formalização em Filosofia: o exemplo da lógica deôntica*
Gisele SECCO

16:35-17:00 - Coffee-break

17:00-17:25 - *Sobre o Princípio de Identidade*
Elias H. ALVES

17:25-17:50 - *Sobre dos Concepciones de lo Formal en la Lógica Simbólica del Siglo XIX*
Javier LEGRIS

17:50-18:15 - *Aristotelian Syllogistic and Axiomatic Method*
Alejandro CASSINI

Room 2 – Villas de Paraty Pousada
Adaptive Logic/Belief Revision

Chairman: Oscar Esquisabel

- 14:30-14:55 - *The Dialectical Game Structure of Adaptive Logics Using the Counting Strategy*
Peter VERDÉE
- 14:55-15:20 - *An Adaptive Logic for Rational Closure*
Christian STRASSER
- 15:20-15:45 - *An Adaptive Logic Framework for Abstract Argumentation*
Dunja SESELJA and Christian STRASSER
- 15:45-16:10 - *Retraction for the Adaptive Logic of Information Update*
Giuseppe PRIMIERO
- 16:10-16:35 - *Solving Normative Conflicts Using Preference Relations*
Rafael R. TESTA and Marcelo E. CONIGLIO
- 16:35-17:00 - Coffee-break
- 17:00-17:25 - *Inclusion versus Recovery in Belief Base Dynamics*
Renata WASSERMANN
- 17:25-17:50 - *On the Relation between Remainder Sets and Kernels*
Marcio MORETTO RIBEIRO and Renata WASSERMANN
- 17:50-18:15 - *Conservative Contraction*
Juliano S.A. MARANHÃO

Room 3 – Parque Hotel Perequê
Paraconsistent Logic / Logic and Algebra

Chairman: Décio Krause

- 14:30-14:55 - *A Completeness Theorem for First-Order Logics of Formal Inconsistency*
Rodrigo PODIACKI
- 14:55-15:20 - *Prometeo: Mito, Lógica y Paraconsistencia*
Tomás BARRERO
- 15:20-15:45 - *Analytical Tableaux for da Costa's Paraconsistent Logics*
Milton Augustinis DE CASTRO and Itala M. Loffredo D'OTTAVIANO
- 15:45-16:10 - *Aristotle's Theory of Syllogism and Paraconsistency*
Evandro Luís GOMES and Itala M. Loffredo D'OTTAVIANO
- 16:10-16:35 - *Falsifying a Conjecture of Paul Erdős*
Pietro CAROLINO and Walter CARNIELLI
- 16:35-17:00 - Coffee-break
- 17:00-17:25 - *Algebras Libres sobre Conjuntos Ordenados en Variedades Finitamente Generadas*
Aldo FIGALLO JR
- 17:25-17:50 - *Tarski's Relation Algebra and 'Börner's Operator'*
Leandro OLIVA SUGUITANI and Itala M. Loffredo D'OTTAVIANO
- 17:50-18:15 - *An Alternative Definition of Quantifier in Three-valued Lukasiewicz Algebras*
Alejandro PETROVICH

14 May, 2008
Room 1 – Casa da Cultura

Invited Talks

Chairman: Arnon Avron

09:00-09:50 – Jairo J. DA SILVA (UNESP-Rio Claro)

Demonstrações em Matemática: uma Perspectiva Estrutural

09:50-10:40 – Marta SAGASTUME (Universidad Nacional de la Plata, Argentina)

About an Old Construction Linking Lattices and Kleene Algebras

10:40-11:30 – Carlos DI PRISCO (Instituto Venezolano de Investigaciones Científicas, Venezuela)

Extensions of Solovay Models

12:00 – LUNCH

15 May, 2008
Room 1 – Casa da Cultura

Invited Talks

Chairman: Diderik Batens

09:00-09:50 – Henrich WANSING (Dresden University of Technology, Germany)

Constructive Negation, Implication and Co-Implication

09:50-10:40 – Andrés VILLAVECES (Universidad Nacional de Colombia, Colombia)

Continuous Model Theory, Metric AECs: Simplicity Issues, Expansions by Predicates

10:40-11:10 – Coffee-break

11:10-12:00 – Raymundo MORADO (Universidad Autónoma de Mexico, Mexico)

The Philosophical Analysis of Non-Monotonicity

12:00-12:50 – Paulo VELOSO (COPPE-UFRJ)

Graph Relational Calculi: Some Aspects

Chairman: Carlos Di Prisco

17:50-18:40 – Charles STEINHORN (Vassar College, USA)

On Model Theory for Classes of Finite Structures

18:40-19:30 – Roberto L.O. CIGNOLI (Universidad de Buenos Aires, Argentina)

Constructive Logic with Strong Negation as a Substructural Logic

Room 1 – Casa da Cultura Logic, Topology and Model Theory

Chairman: Aldo V. Figallo

14:30-14:55 - *Relativization in Abstract Logic: Basic Results*

Victor L. FERNÁNDEZ

14:55-15:20 - *Indexed Logical Closure Operators*

Uwe WOLTER, Alfio MARTINI and Edward Hermann HAEUSLER

15:20-15:45 - *Applications of the Topological Representation of Implication Algebras*

Manuel ABAD, José P. DIAZ VARELA and Cecília CIMADAMORE

15:45-16:10 - *Density on Boolean-valued Spaces for Clustering Application*

Carlos G. GONZÁLEZ

16:10-16:35 - *Uma Asserção Topológica Relacionada ao Princípio das Escolhas Dependente*

Samuel GOMES DA SILVA

16:35-17:00 - *On Profinite Structures*

H. L. MARIANO

17:00-17:25 - *End Extending of Infinite Models for Theories of Finite Arithmetics*

Michal KRYNICKI and Konrad ZDANOWSKI

17:25-17:50 - Coffee-break

Room 2 – Villas de Paraty Pousada
**Complexity of Computation and Decidability –
Quantum Computation and Quantum Logic**

Chairman: Jairo J. da Silva

- 14:30-14:55 - *A Note on Relative Consistency*
L. GORDEEV
- 14:55-15:20 - *Polynomial Space Computable Arithmetic*
Emmanuel Felix LOPES DA SILVA, Ricardo BIANCONI and Ruy J. G. B. DE QUEIROZ
- 15:20-15:45 - *On a Different Sort of Reason for the Incompleteness of Algorithms*
Anderson DE ARAÚJO
- 15:45-16:10 - *Decidability of a Syntactic Fragment of the Hybrid Computation Tree Logic with the \downarrow Operator*
Mario R. F. BENEVIDES and L. Menasché SCHECHTER
- 16:10-16:35 - *Paraconsistency and Quantum Computation*
Juan C. AGUDELO and Walter CARNIELLI
- 16:35-17:00 - *Algebraic Aspects of Quantum Indiscernibility*
Décio KRAUSE and Hércules DE ARAUJO FEITOSA
- 17:00-17:25 - *Quantum Definite Descriptions*
Décio KRAUSE
- 17:25-17:50 – Coffee-break

Room 3 – Parque Hotel Perequê
Proof Schemes and Proof Theory

Chairman: Cezar A. Mortari

- 14:30-14:55 - *Positive Fork Graph Calculus*
Renata DE FREITAS, Sheila R.M. VELOSO, Paulo A.S. VELOSO and Petrucio VIANA
- 14:55-15:20 - *Intersection Type System with de Bruijn Indices*
Daniel LIMA VENTURA, Mauricio AYALA-RINCÓN and Fairouz KAMAREDDINE
- 15:20-15:45 - *Representation Theorems for Explanatory Relations Based on Cumulative Models*
Arelis DÍAZ and Carlos UZCÁTEGUI
- 15:45-16:10 - *On Some Non-Compatible Operations*
Rodolfo ERTOLA
- 16:10-16:35 - *Falsity and The ZF Comprehension Principle*
Wagner DE CAMPOS SANZ
- 16:35-17:00 - *Introdução a uma Proposta para Simular ‘Positivamente’ a Negação*
Daniel DURANTE PEREIRA ALVES and Maria da Paz NUNES DE MEDEIROS
- 17:00-17:25 - *On the Proof Theory of ALC*
Alexandre RADEMAKER, Edward Hermann HAEUSLER and Luiz Carlos PEREIRA
- 17:25-17:50 – Coffee-break

16 MAY, 2008
Room 1 – Casa da Cultura

Chairman: Henrich Wansing

09:00-09:50 – Joan BAGARIA (Barcelona, Spain)

On the Role of Large Cardinals in Category Theory

09:50-10:40 – Jean-Yves BÉZIAU (Université Neuchâtel, Switzerland)

From Formal Logic to Universal Logic

10:40-11:10 – Coffee-break

11:10-12:00 – Cláudio PIZZI (University of Siena, Italy)

The Problem of Existential Import in First-Order Consequential Logics

12:00-12:50 – Francisco MIRAGLIA (USP)

Geometric Functors and Quadratic Forms over Preordered von Neumann Regular Rings

Chairman: Francisco Miraglia

18:40-19:30 – Jaakko HINTIKKA (Boston University, USA)

There Is Only One Logic (but it is not the one you know)

Room 1– Casa da Cultura
Modal Logic and Modalities

Chairman: Atocha Aliseda

14:30-14:55 - *A Model of a Simplified $(K, 1)$ Morass Failing the GCH at K for K Unfoldable Cardinal*
Franqui CÁRDENAS

14:55-15:20 - *Lógicas da Inconsistência Deontica e Paradoxos*
Newton MARQUES PERON and Marcelo E. CONIGLIO

15:20-15:45 - *Lukasiewicz vs. Lukasiewicz*
Claudia OLMEDO GARCÍA

15:45-16:10 - *Quantifying in Extensive Games*
Davi Romero DE VASCONCELOS and Edward Hermann HAEUSLER

16:10-16:35 - *Semántica de Kripke para las Lógicas Monooidales Basadas em T-normas MTL e IMTL*
Leonardo Manuel CABRER and Sergio Arturo CELANI

16:35-17:00 - Coffee-break

17:00-17:25 - *Possible-Translations Semantics for Cathodic Modal Logics*
Juliana BUENO-SOLER

17:25-17:50 - *A Logic of Planning Agency*
Ricardo S. SILVESTRE

17:50-18:15 - *Relational Semantics for Some Non-normal Logics: Opposite Logics*
Cezar A. MORTARI

Room 2 – Villas de Paraty Pousada
Foundational and Philosophical / Aspects of Logic

Chairman: Frank T. Sautter

- 14:30-14:55 - *Uma Formalização da Auto-referência e a Construção do Paradoxo do Mentiroso*
Lafayette DE MORAES and Carlos R. TEIXEIRA ALVES
- 14:55-15:20 - *Identity and the Paradox of Analysis*
Araceli VELLOSO
- 15:20-15:45 - *A Natureza Metafísica da Lógica Tractatiana*
Marcos Antonio DA SILVA FILHO
- 15:45-16:10 - *Proofs by Reductio ad Absurdum in Geometry as Seen as a Syntax*
Bruno VAZ
- 16:10-16:35 - *Bivalence, Excluded Middle and Disquotatation*
Javier CASTRO ALBANO
- 16:35-17:00 - Coffee-break
- 17:00-17:25 - *Acerca da Rivalidade entre Lógicas*
Bruno JACINTO
- 17:25-17:50 - *Uma Crítica à Concepção Semântica de Conseqüência Lógica*
Marcos Antonio ALVES and Itala M.L. D'OTTAVIANO
- 17:50-18:15 - *Benno Kerry: una crítica temprana al logicismo de Frege y un antecedente en la historia del problema de la impredicatividad*
María Gabriela FULUGONIO

Room 3 – Parque Hotel Perequê
Logic and Algebra

Chairman: Hércules de A. Feitosa

- 14:30-14:55 - *θ -Valued Lukasiewicz-Moisil Algebras with and without Negation*
A. V. FIGALLO, I. PASCUAL and A. ZILIANI
- 14:55-15:20 - *Monadic Distributive Lattices and Monadic Augmented Kripke Frames*
A. V. FIGALLO, I. PASCUAL and A. ZILIANI
- 15:20-15:45 - *A Propositional Calculus for $n \times m$ -valued Lukasiewicz Algebras with Negation*
A. V. FIGALLO and C. SANZA
- 15:45-16:10 - *Subálgebras de un Álgebra Cilíndrica Libre de Elementos Diagonales de Dimensión Dos*
Martín FIGALLO and Claudia M. GOMES
- 16:10-16:35 - *Sobre las Preálgebras Implicativas de Lukasiewicz*
Elda PICK
- 16:35-17:00 - Coffee-break
- 17:00-17:25 - *Las Álgebras de Heyting $(n+1)$ -valuadas Modales Subdirectamente Irreducibles*
Cristina CANALS FRAU
- 17:25-17:50 - *A New Algebraic Counterpart of Four-Valued Monteiro Propositional Calculus*
E. BIANCO and A. ZILIANI
- 17:50-18:15 - *Decomposição Primária de Valorizações de Krull*
José C. CIFUENTES and Ana C. CORRÊA MUNARETTO

May 17, 2008
Room 1 – Casa da Cultura

Invited Talks

Chairman: E.G.K. López-Escobar

09:00-09:50 – David MILLER (University of Warwick, England)
Truth Defined

09:50-10:40 – Diderik BATENS (Ghent University, Belgium)
Adaptive C_n -Logics

10:40-10:50 – Coffee-break

10:50-11:40 – Newton C.A. DA COSTA (USP/UFSC)
On the Foundations of Quantum Field Theory

11:40 – CLOSING SESSION

12:00 – LUNCH

13:30 – BUSES DEPARTURE