Conference and Workshop Presentations, Invited Talks

Christian G. Fermüller

2005:

- *Decision Procedure and Model Building Based on Hypersequent Calculi.* LPAR Workshop on Analytic Proof System, Montevideo, Uruguay, March 2005.

2004:

- *Fuzzy Logics from First Principles.* Paris-Vienna Workshop 2004 on Proof Systems and Complexity, Paris, France, December 2004.
- *Revisiting Giles: Connecting bets, dialogue games, and fuzzy logics.* Colloquium on Logic, Games and Philosophy: Foundational Perspectives, Prague, Czech Repubilic, October 2004.
- *Revisiting Giles: On Bets, Dialogue Games, Fuzzy logics, and Hypersequents.* ESF Exploratory Workshop 'The Challenge of Semantics' Vienna, Austria, July 2004.
- *Dialogue games as foundation of fuzzy logics.* 3rd Moscow-Vienna Workshop on Logic and Computation, Moscow, Russia, May 2004.
- *A Dialogue Game for Intuitionistic Fuzzy Logic Based on Comparisons of Degrees of Truth.* First Florence-Vienna Workshop on Logic and Computation, Florence, Italy, January 2004.

2003:

- *From Intuitionistic Logic to Gödel-Dummett Logic via Parallel Dialogue Games.* ISMVL 2003, 33rd IEEE International Symposium on Multiple-valued Logic, Meiji University, Tokyo, Japan, May 2003.
- *Dialogue Games for Modelling Proof Search in Nonclassical Logics.* FTP'2003, International Workshop on First-Order Theorem Proving, Valencia, Spain, June 2004.

- *Parallel Dialogue Games and Hypersequents for Intermediate Logics.* Automated Reasoning with Analytic Tableaux and Related Methods, International Conference, TABLEAUX 2003, Rome, Italy, September 2003.
- MULTLOG *and* MULTSEQ *Reanimated and Married.* 4th International Workshop on the Implementation of Logics, Almaty, Kazakhstan, September 2003.
- *Theories of Vagueness Versus Fuzzy Logic: Can Logicians Learn from Philosophers?.* DATAKON'2003, Workshop on Soft Computing, Brno, Czech Republic, October 2003.
- *A Dialogue Game for Intuitionistic Fuzzy Logic Based on Comparisons of Degrees of Truth.* InTech'03, Fourth International Conference on Intelligent Technologies, Chiang Mai, Thailand, December 2003.

2002:

- *A Natural Deduction System for Intuitionistic Fuzzy Logic.* Second "Moscow–Vienna Workshop on Logic and Computation", April 2002.
- *Characterizing Gödel logic by parallellizing Lorenzen's dialogue semantics.* Institut d'Investigació en Intel.ligència Artificial (IIIA), Bellaterra, Spain, May 2002.
- *Parallel Dialogue Games for Intermediate Logics.* Invited talk at: Logic for Programming, Artificial Intelligence, and Reasoning, 9th International Conference, LPAR 2002, Tblisi, Georgia, October 2002.
- *Parallel Dialogue Games for Gödel Logic.* Amadee-Meeting. Paris, France, November 2002.

2001:

- *Hypersequents as a Uniform Framework for Urquhart's C, MTL and Related Logics*, 31st IEEE Symposium on Multiple-Valued Logic, Warsaw, Poland, May 2001.
- *Future Tasks and Dangers in Logics and Computer Science.* "International Tblissi–Vienna Workshop on Logic and Applications". Tblisi, Georgia. August 2001.
- *A Natural Deduction System for Intuitionistic Fuzzy Logic*, LOGIC COLLOQUIUM 2001, Vienna, Austria, August 2001.
- *A Note on the Proof-Theoretic Strength of a Single Application of the Schema of Identity.* Dagstuhl seminar on "Proof Theory in Computer Science", Dagstuhl, October 2001
- *Tableaux for Reasoning About Atomic Updates I*, "Methods for Modalities (M4M)", 2nd international workshop, Amsterdam, November 2001.

- *Tableaux for Reasoning About Atomic Updates II*, Logic for Programming, Artificial Intelligence, and Reasoning, 8th International Conference, LPAR 2001, Havana, Cuba, December 2001.

2000:

- *Model Building for Non-Classical Logics.* Model Computation – Principles, Algorithms, Applications, Workshop at CADE 17, Pittsburgh, USA, June 2000
- *Another analytic calculus for Gödel logic: sequents of relations*, Fuzzy Logics – Analytic Proof Methods and Semantics, Workshop, Vienna, Austria, May 2000
- *Löwenheim-Skolem: A Theorem and Three Histories.* 3rd Congress of the International Working Group in History of Philosophy of Science, Vienna, Austria, July 2000.
- *Reasoning About Dynamic Databases: Tableaux for Single-Step-Update Models*, WoLLIC'2000, 7th Workshop on Logic, Language, Information and Computation, Natal, Brazil, August 2000
- *Have* SPASS *with* $OCC1N_g^=$, Logic for Programming and Automated Reasoning, 7th International Conference, LPAR 2000, Reunion Island, France, November 2000
- *Model Building for Non-Classical Logics.* First Order Theorem Proving, FTP 2000, St Andrew, Scotland, July 2000
- *Facetten der Kolmogorov-Komplexität*, lecture series "Wissenswertes aus der Mathematik" organised by the Dept. of Mathematics, TU Wien, Austria, December 2000
- *A Natural Deduction System for Intuitionistic Fuzzy Logic*, Joint Austro-Italian workshop on "Fuzzy Logics: analytic proof methods and semantics", Milano, Italy, December 2000

1999:

- *Working with ARMs*, Model Building Workshop, Grenoble, October 1999
- *Urquart's Basic Many-valued Logic C – Some Clearifications*, COST Action No. 15 meeting, Prague, Czech Republic, October 1999
- *Resolution Beyond Testing Unsatisfiability*, (invited talk), Collegium Logicum 99, Vienna, November 1999
- *the Undecidability of Some Sub-classical First-order Logics*, 19th FST&TCS, Madras, India, December 1999.

- *Analytic Calculi for Projective Logics*, International Conference on Automated Reasoning with Analytic Tableaux and Related Methods – TABLEAUX'99, Saratoga Springs, USA, June 1999
- *A New Type of Analytic Calculi*, Joint Conference: 5th Barcelona Logic Meeting and 6th Kurt Gödel Colloquium, Barcelona, Spain, June 1999
- *Synthesizing Analytic Calculi for Projective Logics*, 11th International Congress of Logic, Methodology and Philosophy of Science (LMPS), Krakow, Poland, August 1999

1998:

- *Tableaux for Finite-valued Logics with Arbitrary Distribution Modalities*, International Conference on Automated Reasoning with Analytic Tableaux and Related Methods – TABLEAUX'98, Oisterwijk, Netherlands, May 1998
- *Many-valued Modal Logics Beyond $\Box$ and $\Diamond$*, ASL Logic Colloquium '98, Prague, Czech Republic, August 1998
- *Many-valued Modal Logics: Why is it Interesting and Important?*, Institute of Cybernetics, Tallinn, Estonia, October 1998
- *Implicational Completeness of Signed Resolution.* FTP'98 – 2nd International Workshop on First-order Theorem Proving, Vienna, Austria, November 1998
- *Proof Theory of Fuzzy Logics: Urquart's C and Related Logics.* Acción Integrada 18/98 "Generic Decision Procedures for Many-valued Logics", Universitat de Barcelona, Spain, December 1998
- *Implicational Completeness of Signed Resolution.* Acción Integrada 18/98 "Generic Decision Procedures for Many-valued Logics", Universitat de Barcelona, Spain, December 1998
- *Many-valued Modal Logics.* Seminari de Logica Algebraica, Sessio Especial "Accio integrada Hispano-Austriaca – Multiple-valued Logics in Vienna", Universitat de Barcelona, Spain, December 1998

1997:

- *Lean Induction Principles for Tableaux*, International Conference on Automated Reasoning with Analytic Tableaux and Related Methods – TABLEAUX'97, Pont-á-Mousson, France, May 1997
- *Intuitionistic Counterparts of Finitely-Valued Logics*, COST Action 15 WG1 and WG 3 Meeting, Patras, Greece, June 1997
- *Finite-valued Logics and Classical Proof Theory*, Conference on Multiple-valued Logics for Computer Science Applications, Dagstuhl, Deutschland, October 1997

1996:

- *Large Decidable Fragments of First-Order Finite-Valued Logics and Resolution*, EBL XI, Salvador de Bahia, Brasilien, Mai 1996
- *Decision Procedures and Model Building in Equational Clause Logic*, WoLLIC‘96, Salvador de Bahia, Brazil, May 1996
- *Extracting Kripke Semantics From Proof-Search in Restricted Many-Placed Sequent Calculi*, Workshop“COST-Cooperation Barcelona-Vienna”, Barcelona, Spain, May 1996
- *Intuitionistic Counterparts of Finitely-Valued Logics*, ISMVL‘96, Santiago de Compostela, Spain, May 1996
- *Semantic Trees Revisited – Some New Completeness Results*, CADE-13, Rutgers University, New Brunsick, New Jersey, USA, August 1996
- *Decidable Fragments of First-Order Finite-Valued Logics and Resolution*, Symposium: Proof Theory of and Computational Aspects of Many-Valued Logics, Prague, Cech Republic, August 1996
- *What You Always Wanted to Know About Resolution – And Never Cared to Ask*, UC Berkeley, Berkeley, USA, October 1996
- *Decidable Fragments of Finite-Valued First-Order Logics*, Workshop “Proof-Theory and Proof-Search III” Univerité Paris VII, France, November 1996

1995:

- *Nonelementary Speedups between Different Versions of Tableaux*, 4th International Workshop on Theorem Proving with Analytic Tableaux and Related Methods – TABLEAUX’95, St. Goar, Germany, May 1995
- *Deciding Classes with Equality by Superposition*, Workshop “Proof-Theory and Proof-Search II”, Université Paris 7, France, June 1995
- *Automated Model Building by Hyperresolution*, 2nd Workshop on Logic, Language, Information and Computation – WoLLIC‘95, Recife, Brazil, July 1995
- *Intutionistic Counterparts of Finite-valued Logics*, Logic Colloquium ’95, Haifa, Israel, August 1995
- *Systematic Construction of Calculi for Finite-Valued First-order Logics*, 10th International Congress of Logic, Methodology and Philosophy of Science, Florence, Italy, August 1995
- *Model Building by Resolution*, Stanford Logic Lunch, Stanford University, USA, October 1995

- *Nonelementary Speedups between Different Versions of Tableaux*, SRI, Menlo Park, USA, November 1995

1994:

- *Semantic Tree Based Resolution Variants as Decision Procedure*, Tutorial on Resolution Decision Methods, CADE–12, Nancy, Frannce, July 1994
- *Constructing Finite Models From Simple Descriptions of Herbrand Models*, Workshop on Automated Model Building, CADE–12, Nancy, France, July 1994
- *Non-elementary Speed-Up in Proof Length by Structural Clause Form Transformation*, LICS'94, Paris, France, July 1994
- *Proof Theory of Finite-Valued Logics*, Logic Colloquium'94, Clermont, France, July 1994
- *Finite Model Building from Atomic Representations*, Workshop "Proof-Theory and Proof-Search I", Université Paris 7, France, November 1994
- *A Nonelementary Speed-Up in Proof-Length by Structural Transformation into Clause Form*, Workshop "Proof-Theory and Proof-Search I", Université Paris 7, France, November 1994

1993:

- *Dual Systems of Sequents and Tableaux*, 2nd Workshop on Tableau-based Deduction, Marseille, France, April 1993
- *Algorithmic Construction of Different Types of Calculi for Finite-Valued Logics*, Universität Saarbrücken und Max Plank Institut für Informatik, Saarbrücken, Germany, 1993.
- *Resolution als Entscheidungsverfahren*, Universität Darmstadt, Darmstadt, Germany, 1993
- *A Resolution Priniciple for Quantificational S5 with an Application to Knowledge Representation*, 2nd Turkish Artificial Intelligence and Neural Networks Symposium, Istanbul, Turkey, June 1993
- *MULTLOG: A System for Axiomatizing Many-Valued Logics*, Logic Programming and Automated Reasoning – LPAR'93, St. Petersburg, Russia, July 1993
- *A Many-valued Logic for Default Reasoning*, 8th International Symposium on Computer and Information Sciences – ISCIS VIII, Istanbul, Turkey, November 1993

1992:

- *Resolution for Many-Valued Logic*, 2nd Conference on Logic Programming and Automated Reasoning – LPAR'92, St. Petersburg, Russia, July 1992
- *A Simple Resolution Based Decision Procedure for the Maslov Class*, 7th International Meeting of Young Computer Scientists – IMYCS'92, Smolenice, Slovakia, November 1992
- *Model Building by Resoluion*, 6th Workshop on Computer Science Logic – CSL'92, San Miniato, Italy, October 1992

1991:

- *On Deciding Classes of Clause Sets by Resolution*, Estonian Academy of Sciences, Tallinn, Estonia, February 1991
- *A Simple Proof for the Solvability of the Maslov Class*, Estonian Academy of Sciences, Tallinn, Estonia, February 1991

1990:

- *A Resolution Variant Deciding some Classes of Clause Sets*, 4th Workshop on Computer Science Logic – CSL'90, Heidelberg, Germany, October 1992
- *Resolution as a Decision Procedure*, Research Institute for Symbolic Computation, Hagenberg, Austria