FTP'98 – Final Program

Monday, 23 November 1998

9:00 Opening Address

Session I: Invited talk

9:10 Decision procedures and model building, or How to improve logical information in ATP
Alexander Leitsch

10:10 Coffee break

Session II: Constrained clause logic

10:40 Proof generalization and function introduction
Nicolas Peltier

11:10 Completeness and redundancy in constrained clause logic
Reinhard Pichler

11:40 Extending decidable clause classes via constraints
Reinhard Pichler

12:10 Lunch break

Session III: Decision procedures

14:10 An $O((n \cdot \log n)^3)$-time transformation from Grz into decidable fragments of classical first-order logic
Stephane Demri and Rajeev Gore

14:40 Issues of decidability for description logics in the framework of resolution
Ullrich Hustadt and Renate A. Schmidt

15:10 A new fast tableau-based decision procedure for an unquantified fragment of set theory
Domenico Cantone and Calogero G. Zarba

15:40 Coffee break

Session IV: Interpretation & Verification

16:10 How complex is a finite first-order sorted interpretation?
Thierry Boy de la Tour

16:40 Computational representations of models of first-order formulas
Robert Matzinger

16:55 Interpretation of a Mizar-like logic in first-order logic
Ingo Dahn

17:25 Verifying textbook proofs
Claus Zinn
Tuesday, 24 November 1998

Session V: Invited talk

9:00  Quantified modal logic  
Melvin Fitting

10:30  Coffee break

Session VI: Many-valued logics

11:00  Implicational completeness of signed resolution  
Christian Fermüller
11:30  Resolution-based theorem proving for SHn-logics  
Viorica Sofronie-Stokkermans
12:00  A new resolution calculus for the infinite-valued propositional logic of Łukasiewicz  
Hubert Wagner

12:30  Lunch break

Session VII: Tableaux & First-order theorem proving

14:30  A further and effective liberalization of the $\delta$-rule in free variable semantic tableaux  
Domenico Cantone and Marianna Nicolis Asmundo
15:00  Full first-order sequent and tableau calculi with preservation of solutions and the liberalized $\delta$-rule but without skolemization  
Claus-Peter Wirth
15:30  A partial instantiation based first order theorem prover  
J.N. Hooker, G. Rago, Vijay Chandru, and Anjul Shrivastava
16:00  Theorem proving strategies: a search oriented taxonomy  
Maria Paola Bonacina

16:15  Coffee break

Session VIII: Panel discussion

16:45  Concepts, logics and research methodologies in automated deduction  
Chairs: Maria Paola Bonacina and Ricardo Caferra  
Panelists: Domenico Cantone, Gilles Dowek, Melvin Fitting, and Alexander Leitsch

17:45  Business meeting

19:00  Dinner at a Viennese “Heuriger”
Wednesday, 25 November 1998

Session IX: Invited talk
9:00 Automated theorem proving in first-order logic modulo: on the difference between type theory and set theory
   Gilles Dowek

10:30 Coffee break

Session X: Equational reasoning
11:00 Constraint contextual rewriting
   Alessandro Armando and Silvio Ranise
11:30 An equational re-engineering of set theories
   Andrea Formisano and Eugenio Omodeo
12:00 Hidden congruent deduction
   Grigore Rosu and Joseph Goguen

12:30 Lunch break

Session XI: Proof theory
14:30 Upper bound on the height of terms in proofs with cuts
   Boris Konev
15:00 Effective properties for some first order intuitionistic modal logics
   Aida Pluškevičienė

15:30 Coffee break

16:00 Closing discussion