

## 4th PANHELLENIC LOGIC SYMPOSIUM

July 7–10, 2003, Thessaloniki, Greece

### SCIENTIFIC PROGRAM

#### MONDAY JULY 7

- 08:00 - 09:00 *Registration*  
09:00 - 09:10 *Opening*  
09:10 - 10:40 E. Koutsoupias (U of Athens and UCLA) TUTORIAL  
Algorithms for propositional satisfiability  
10:40 - 11:00 *Coffee Break*  
11:00 - 11:50 D. Bjørner (TU of Denmark) INVITED TALK  
Logics of formal software specification languages. The possible worlds cum domain problem  
11:50 - 12:00 *Break*  
12:00 - 12:50 P. Peppas (Athens IT) INVITED TALK  
Reasoning about change: the frame problem  
12:50 - 17:00 *Lunch Break*  
17:00 - 17:25 The logic of Herakleitos; D. Bastiras (U of Adelaide)  
17:30 - 17:55 A contribution to the influences of the Diodorean modalities from the middle ages to the present; S.D. Gerogiorgakis (U of Patras)  
18:00 - 18:25 Syllogistic of today; V. Sotirov (Bulgarian Academy of Sciences)  
18:25 - 19:00 *Coffee Break*  
19:00 - 19:25 Conditionally partial lambda models and strong normalization; N. Rigas (NTU of Athens)  
19:30 - 19:55 A model intersection theorem for Logic Programming with negation-as-failure; P. Rondogiannis (U of Athens) and W.W. Wadge (U of Victoria)  
20:00 - 20:25 Logic-Enhanced type systems: programming language support for reasoning about security and other program properties; N.S. Papaspyrou, D. Vytiniotis, and V.M. Koutavas (NTU of Athens)

#### TUESDAY JULY 8

- 09:00 - 10:30 W. Demopoulos (U of Western Ontario) TUTORIAL  
Logicism: Its historical context and current prospects  
10:30 - 11:00 *Coffee Break*  
11:00 - 11:50 I. Soskov (Sofia U) INVITED TALK  
Degree spectra and co-spectra of structures  
11:50 - 12:00 *Break*  
12:00 - 12:50 K. Sagonas (Uppsala U) INVITED TALK  
Tabling for (constraint) logic programming  
12:50 - 17:00 *Lunch Break*  
17:00 - 17:25 Cospectra of joint spectra of a sequence of structures; A.A. Soskova (Sofia U)  
17:30 - 17:55 An application of “back and forth” and PFA in topology; M. Kurilić and A. Pavlović (U of Novi Sad)  
17:55 - 18:05 *Break*  
18:05 - 18:30 Extensions of Büchi’s theorem: questions of decidability for addition and  $n$ -th powers; Th. Pheidas (U of Crete) and X. Vidaux (U of Oxford)  
18:35 - 19:00 The boundary crossing theorem; G. Popa (U of Canterbury)  
19:00 - 20:00 *Syskepsis (coffee will be available)*

WEDNESDAY JULY 9

- 09:00 - 10:30 A. Louveau (U Paris 6) TUTORIAL Part I  
Borel and analytic equivalence relations
- 10:30 - 11:00 *Coffee Break*
- 11:00 - 11:50 A. Louveau (U Paris 6) TUTORIAL Part II  
Borel and analytic equivalence relations
- 11:50 - 12:00 *Break*
- 12:00 - 12:50 J.-L. Krivine (U Paris 7) INVITED TALK  
Curry-Howard correspondence and the axiom of dependent choice
- 12:50 - 13:00 *Break*
- 13:00 - 13:25 Complexity of monadic inf-Datalog. Application to temporal logic; E. Foutsoucos (U of Athens) and I. Guessarian (U Paris 7)
- 13:30 - 13:55 Extension of the reducibility method; S. Ghilezan (U of Novi Sad) and S. Likavec (U di Torino)
- 14:00 - TBA *Lunch, Excursion, Symposion*

THURSDAY JULY 10

- 09:00 - 10:30 M. Lenzerini (U di Roma "La Sapienza") TUTORIAL  
Logic-based information integration
- 10:30 - 11:00 *Coffee Break*
- 11:00 - 11:25 On SAT distributions with planted assignments; T. Dimitriou (Athens IT)
- 11:30 - 11:55 Modality in open institutions with concrete syntax; R. Diaconescu (Romanian Academy) and P. Stefaneas (NTU of Athens)
- 11:55 - 12:05 *Break*
- 12:05 - 12:30 ITL as a language for regular relations; A. Zinoviev (Sofia U)
- 12:35 - 13:00 Argumentation with abduction; N. Demetriou and A. Kakas (U of Cyprus)
- 13:00 - 17:00 *Lunch Break*
- 17:00 - 17:25 Radiolocoring graphs via the probabilistic method; S. Nikolettseas, V. Papadopoulou, and P. Spirakis (CTI and U of Patras)
- 17:30 - 17:55 Combinatory complexity: operators on complexityclasses; S. Zachos and A. Pagourtzis (NTU of Athens)
- 18:00 - 18:25 Ultraproducts of trees; B. Šobot (U of Novi Sad)
- 18:25 - 19:00 *Coffee Break*
- 19:00 - 19:25 Infinitesimals via the cofinite filter; G. Kapoulas (Athens UEB)
- 19:30 - 19:55 Lower bounds to the conjectured threshold value for the 3-SAT problem - Review paper; A.C. Kaporis and E.G. Lalas (U of Patras)