



INSTITUTE FOR LOGIC,
LANGUAGE AND COMPUTATION

1st International Workshop on Computational Social Choice (COMSOC-2006)

Programme

UNIVERSITEIT VAN AMSTERDAM

Wednesday, 6 December 2006

Room P.227

8:50–9:00	Welcome	Registration: from 8:15 onwards in P.017
9:00–9:50	Invited Talk	<i>Chair: Krzysztof Apt</i>
	Incomparability and Uncertainty in Preference Aggregation <i>Francesca Rossi</i>	
10:00–10:40	Hard Problems in Computing Voting Rules 1	<i>Chair: Jörg Rothe</i>
	The Computational Complexity of Choice Sets <i>Felix Brandt, Felix Fischer and Paul Harrenstein</i>	
	Approval Voting: Local Search Heuristics and Approximation Algorithms for the Minimax Solution <i>Rob LeGrand, Evangelos Markakis and Aranyak Mehta</i>	
10:40–11:10	Coffee Break	<i>Room P.017</i>
11:10–12:30	Computational Barriers to Manipulation and Control	<i>Chair: Michael Trick</i>
	Hybrid Elections Broaden Complexity-Theoretic Resistance to Control <i>Edith Hemaspaandra, Lane Hemaspaandra and Jörg Rothe</i>	
	Hybrid Voting Protocols and Hardness of Manipulation <i>Edith Elkind and Helger Lipmaa</i>	
	The Complexity of Bribery in Elections <i>Piotr Faliszewski, Edith Hemaspaandra and Lane Hemaspaandra</i>	
	On Complexity of Lobbying in Multiple Referenda <i>Robin Christian, Mike Fellows, Frances Rosamond and Arkadii Slinko</i>	
12:30–14:00	Lunch	
14:00–14:50	Invited Talk	<i>Chair: Hans Peters</i>
	Social Software for Coalition Formation <i>Harrie de Swart</i>	
15:00–15:40	Logics for Social Choice	<i>Chair: Johan van Benthem</i>
	Towards a Logic of Social Welfare <i>Thomas Ågotnes, Wiebe van der Hoek and Michael Wooldridge</i>	
	Social Choice and the Logic of Simple Games <i>Tijmen Daniëls</i>	
15:40–16:10	Coffee Break	<i>Room P.017</i>
16:10–17:30	Strategy-Proofness	<i>Chair: Christian List</i>
	On the Robustness of Preference Aggregation in Noisy Environments <i>Ariel Procaccia, Jeffrey Rosenschein and Gal Kaminka</i>	
	Anonymous Voting and Minimal Manipulability <i>Stefan Maus, Hans Peters and Ton Storcken</i>	
	Domains of Social Choice Functions on which Coalition Strategy-Proofness and Maskin Monotonicity are Equivalent <i>Koji Takamiya</i>	
	Simulating the Effects of Misperception on the Manipulability of Voting <i>Johann Mitlöhner, Daniel Eckert and Christian Klamler</i>	

Thursday, 7 December 2006

Room P.227

9:00–9:50	Invited Talk Approximation Mechanisms and Characterization of Implementable Social Choice Rules <i>Noam Nisan</i>	<i>Chair: Vincent Conitzer</i>
10:00–11:00	Mechanism Design and Related Issues Optimizing Streaming Applications with Self-Interested Users using M-DPOP <i>Boi Faltings, David Parkes, Adrian Petcu and Jeff Shneidman</i> Weak Monotonicity and Bayes-Nash Incentive Compatibility <i>Rudolf Müller, Andrés Perea and Sascha Wolf</i> Decentralization and Mechanism Design for Online Machine Scheduling <i>Birgit Heydenreich, Rudolf Müller and Marc Uetz</i>	<i>Chair: Noam Nisan</i>
11:00–11:30	Coffee Break	<i>Room P.015A</i>
11:30–12:30	Ranking Systems / Designing Voting Rules QuickRank: A Recursive Ranking Algorithm <i>Amy Greenwald and John Wicks</i> Automated Design of Voting Rules by Learning from Examples <i>Ariel Procaccia, Aviv Zohar and Jeffrey Rosenschein</i> Small Binary Voting Trees <i>Michael Trick</i>	<i>Chair: Vangelis Markakis</i>
12:30–14:00	Lunch	
14:00–14:50	Invited Talk Better Ways to Cut a Cake <i>Steven Brams</i>	<i>Chair: Eric Pacuit</i>
15:00–15:40	Resource Allocation and Fair Division 1 Some Results on Adjusted Winner <i>Eric Pacuit, Rohit Parikh and Samer Salame</i> How to Allocate Hard Candies Fairly <i>Marco Dall'Aglio and Raffaele Mosca</i>	<i>Chair: Ulle Endriss</i>
15:40–16:10	Coffee Break	<i>Room P.015A</i>
16:10–17:30	Judgment Aggregation and Related Issues Judgment Aggregation without Full Rationality <i>Franz Dietrich and Christian List</i> Merging Judgments and the Problem of Truth-Tracking <i>Gabriella Pigozzi and Stephan Hartmann</i> The Discursive Dilemma as a Lottery Paradox <i>Igor Douven and Jan-Willem Romeijn</i> Natural Rules for Optimal Debates: Preliminaries for a Combinatorial Exploration <i>Yann Chevaleyre and Nicolas Maudet</i>	<i>Chair: Harrie de Swart</i>
20:00–late	Social Dinner	<i>Puri Mas, Lange Leidsedwardsstraat 37–41</i>

Friday, 8 December 2006

Room P.227

9:00–9:50	Invited Talk Budget-Balance in Social Choice <i>Boi Faltings</i>	<i>Chair: Yann Chevaleyre</i>
10:00–11:00	Hard Problems in Computing Voting Rules 2 Approximability of Dodgson's Rule <i>John Christopher McCabe-Dansted, Geoffrey Pritchard and Arkadii Slinko</i> Guarantees for the Success Frequency of an Algorithm for Finding Dodgson Winners <i>Christopher Homan and Lane A. Hemaspaandra</i> On Determining Dodgson Winners by Frequently Self-Knowingly Correct Algorithms and in Average-Case Polynomial Time <i>Jörg Rothe and Holger Spakowski</i>	<i>Chair: Edith Hemaspaandra</i>
11:00–11:30	Coffee Break	<i>Room P.016</i>
11:30–12:30	Resource Allocation and Fair Division 2 Bicriteria Models for Fair Resource Allocation <i>Włodzimierz Ogryczak</i> Finding Leximin-Optimal Solutions using Constraint Programming <i>Sylvain Bouveret and Michel Lemaître</i> The Distributed Negotiation of Egalitarian Allocations <i>Paul-Amaury Matt, Francesca Toni and Dionysis Dionysiou</i>	<i>Chair: Nicolas Maudet</i>
12:30–14:00	Lunch	
14:00–15:20	Fair Representation / Preference Elicitation Welfarism and the Assessments of Social Decision Rules <i>Claus Beisbart and Stephan Hartmann</i> Equal Representation in Two-tier Voting Systems <i>Nicola Maaser and Stefan Napel</i> Eliciting Single-Peaked Preferences using Comparison Queries <i>Vincent Conitzer</i> Retrieving the Structure of Utility Graphs used in Multi-Item Negotiation through Collaborative Filtering <i>Valentin Robu and Han La Poutré</i>	<i>Chair: Jérôme Lang</i>
15:20–15:50	Coffee Break	<i>Room P.016</i>
15:50–17:10	Coalition Formation / Experimental Computations A Generic Approach to Coalition Formation <i>Krzysztof Apt and Andreas Witzel</i> The Probability of Sen's Liberal Paradox <i>Keith Dougherty and Julian Edward</i> Voting Cycles in a Computational Electoral Competition Model with Endogenous Interest Groups <i>Vjollca Sadiraj, Jan Tuinstra and Frans van Winden</i> Voting Systems and Automated Reasoning: The QBFEVAL Case Study <i>Massimo Narizzano, Luca Pulina and Armando Tacchella</i>	<i>Chair: Jan-Willem Romeijn</i>
17:15–18:30	Farewell Drinks	<i>3rd floor lobby</i>