## CP 2017 Program

	Tuesday, August 29 2017							
8:30 - 9:00	Welcome							
9:00 - 10:00			ited Talk					
10:00 - 10:30	Coffee Break							
10:30 - 12:10	CP1: Graphs and Graphical Models CP2: Theory							
	Ciaran McCreesh, Patrick Prosser, Kyle Simpson and James Trimble.	On Maximum Weight Clique Algorithms, and How They Are Evaluated	Victor Lagerqvist and Magnus Wahlström.	Kernelization of Constraint Satisfaction Problems: A Study through Universal Algebra				
	Mohamed Siala and Barry O'Sullivan.	Rotation-Based Filtering for Stable Matching	Lucy Ham and Marcel Jackson.	All or nothing: toward a promise problem dichotomy for constraint problems				
	Hong Xu, Sven Koenig and T. K. Satish Kumar.	A Constraint Composite Graph-Based ILP Encoding of the Weighted CSP	K. Subramani and Piotr Wojciechowski.	Analyzing lattice point feasibility in UTVPI constraints				
	Guillaume Perez and Jean-Charles Regin.	MDDs: Sampling and Probability Constraints	Mark Rowland, Aldo Pacchiano and Adrian Weller	Conditions Beyond Treewidth for Tightness of Higher-order LP Relaxations				
12:10 - 13:30		I	Lunch					
13:30 - 14:30	Tutorial 1: Pietro Belotti: Mixed Integer Nonlinear Programming  Tutorial 2: Armin Biere: Introduction to SAT							
14:30 - 15:20	CP3	Search	CP4: Probabilistic Reasoning					
	Heytem Zitoun, Claude Michel, Laurent Michel and Michel Rueher.	Search strategies for solving floating point constraint systems	Jeremias Berg, Emilia Oikarinen, Matti Järvisalo and Kai Puolamäki.	Minimum-Width Confidence Bands via Constraint Optimization				
	Jia Liang, Vijay Ganesh, Pascal Poupart and Krzysztof Czarnecki	Learning Rate Based Branching Heuristic for SAT Solvers	Anna Latour, Behrouz Babaki, Anton Dries, Angelika Kimmig, Guy Van den Broeck, Luc De Raedt and Siegfried Nijssen.	Combining Stochastic Constraint Optimization and Probabilistic Programming: From Knowledge Compilation to Constraint Solving				
15:20 - 15:30		CPAIOR2018 and	d CP2018 Presentation	337711.6				
15:30 - 16:00								
16:00 - 17:00			Award & ACP Dissertation Award					
17:00 - 17:50	CP5: Modeling CP6: Security and Attacks							
	Neng-Fa Zhou and Håkan Kjellerstrand.	Optimizing SAT Encodings for Arithmetic Constraints	Fanghui Liu, Waldemar Cruz, Chujiao Ma, Gregory Johnson and Laurent Michel.	A Tolerant Algebraic Side-Channel Attack on AES Using CP				
	Andre Cire, John Hooker and Tallys Yunes	Modeling with Metaconstraints and Semantic Typing of Variables	Behnaz Hassanshahi and Roland Yap	Android Database Attacks Revisited				
8:45 - 9:00	Wednesday, August 30 2017							
9:00 - 10:00	10:00 Invited Talk							
10:00 - 10:30								
10:30 - 12:10	CP7: Clustering, Mining, & Synthesis  CP8: Scheduling							
	Maxime Chabert and Christine Solnon.	Constraint Programming for Multi-criteria Conceptual Clustering	Cédric Pralet.	An Incomplete Constraint-Based System for Scheduling With Renewable Resources				
	Mohadeseh Ganji, James Bailey and Peter J. Stuckey.	A New Declarative Framework for Constrained Community Detection	Willem-Jan Van Hoeve and Sridhar Tayur.	Integer and Constraint Programming for Batch Annealing Process Planning				
	Pierre Schaus, John Aoga and Tias Guns.	CoverSize: A Global Constraint for Frequency-based Itemset Mining	Tong Liu, Jacopo Mauro, Maurizio Gabbrielli and Roberto Di Cosmo.	NightSplitter: a scheduling tool to optimize (sub)group activities				
	Aws Albarghouthi, Paraschos Koutris, Mayur Naik and Calvin Smith.	Constraint-Based Synthesis of Datalog Programs	Morten Mossige, Arnaud Gotlieb, Helge Spieker, Hein Meling and Mats Carlsson.	Time-aware Test Case Execution Scheduling for Cyber-Physical Systems				
12:10 - 13:30		I	Lunch					
13:30 - 14:30	Tutorial 3: Tias Guns: Machine Learning and Data Science Tutorial 4: Guido Tack: Introduction to Constraint Programming							
14:30 - 15:30		Invited Talk						
15:30 - 16:00	Coffee Break							
16:00 - 17:40	Best Papers							
	Grigori German, Olivier Briant, Hadrien Cambazard and Vincent Jost.  Arc consistency via Linear Programming							
	Fahiem Bacchus, Matti Järvisalo, Paul Saikko and Antti Hyttinen.		Reduced Cost Fixing in MaxSAT					
	Adrian Goldwaser and Andreas Schutt.		Optimal Torpedo Scheduling					
	Guillaume Derval, Jean-Charles Regin and Pierre Schaus.		Improved Filtering for the Bin-Packing with Cardinality Constrain	nt				
17:40 - 18:10		XCSP Competition and	Minizinc Challenge Results					

## CP 2017 Program

		Thursday, August 3	31 2017				
9:00 - 10:00	Invited Talk						
10:00 - 10:30							
10:30 - 12:10	CP9: Explanations, Nogoods, Cuts, and Preferences		CP10: Scheduling & Sequencing				
	Gael Glorian, Frederic Boussemart, Jean-Marie	Combining Nogoods in Restart-Based Search	Jordi Coll, Miquel Bofill, Josep Suy and Mateu Villaret.	An efficient SMT approach to solve MRCPSP/max instances with			
	Lagniez, Christophe Lecoutre and Bertrand Mazure.			tight constraints on resources			
	Atena M.Tabakhi, Tiep Le, Ferdinando Fioretto and William Yeoh.	Preference Elicitation for DCOPs	Kenneth D. Young, Thibaut Feydy and Andreas Schutt.	Constraint Programming applied to the Multi-Skill Project Scheduling Problem			
	Ekaterina Arafailova, Nicolas Beldiceanu and Helmut Simonis.	Generating Linear Invariants for a Conjunction of Automata Constraints	Joris Kinable, Andre Augusto Cire and Willem-Jan Van Hoeve	Hybrid Optimization Methods for Time-Dependent Sequencing Problems			
	Simon De Givry and George Katsirelos.	Clique Cuts in Weighted Constraint Satisfaction	John Hooker.	Job Sequencing Bounds from Decision Diagrams			
12:10 - 13:30	Lunch						
13:30 - 14:00	Session in Honour of Alain Colmeraur						
14:00 - 15:30							
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		Friday, September	1 2017				
9:00 - 10:00	· ·						
10:00 - 10:30							
10:30 - 12:10							
	Linjie Pan, Jiwei Jin, Xin Gao, Wei Sun, Feifei Ma, Minghao Yin	Integrating ILP and SMT for Shortwave Radio Broadcast	Roberto Amadini, Graeme Gange, Peter J. Stuckey and Guido	A Novel Approach to String Constraint Solving			
	and Jian Zhang.	Resource Allocation and Frequency Assignment	Tack.				
	Jeremias Berg and Matti Järvisalo.	Weight-Aware Core Extraction in SAT-Based MaxSAT Solving	Erez Bilgory, Eyal Bin and Avi Ziv.	Solving Constraint Satisfaction Problems Containing Vectors of Unknown Size			
	Emir Demirović and Nysret Musliu	MaxSAT-Based Large Neighborhood Search For High School Timetabling	Jean Marie Lagniez, Pierre Marquis and Anastasia Paparrizou.	Defining and Evaluating Heuristics for the Compilation of Constraint Networks			
	Takehide Soh, Mutsunori Banbara, Naoyuki Tamura and Daniel	Solving Multiobjective Discrete Optimization Problems with	Hélène Verhaeghe, Christophe Lecoutre, Yves Deville and Pierre	Extending Compact-Table to Basic Smart Tables			
	Le Berre.	Propositional Minimal Model Generation	Schaus.				
12:10 - 13:30		·	unch				
13:30 - 15:35	CP13: Glob	pal Constraints	CP14: Routing a	and Transportation			
	Ekaterina Arafailova, Nicolas Beldiceanu and Helmut Simonis.	Among Implied Constraints for Two Families of Time-Series Constraints	Anders Nicolai Knudsen, Marco Chiarandini and Kim S. Larsen.	Constraint Handling in Flight Planning			
	Christian Bessiere, Emmanuel Hebrard, George Katsirelos, Zeynep Kiziltan and Toby Walsh	Ranking Constraints	Tommaso Urli and Philip Kilby.	Constraint-Based Fleet Design Optimisation for Multi- Compartment Split-Delivery Rich Vehicle Routing			
	Nina Narodytska, Thierry Petit, Mohamed Siala and Toby Walsh	Three Generalizations of the Focus Constraint	Mohd. Hafiz Hasan and Pascal Van Hentenryck.	A Column-Generation Algorithm for Evacuation Planning with Elementary Paths			
	Victor Dalmau.	Conjunctions of Among Constraints	Edward Lam and Pascal Van Hentenryck.	Branch-and-Check with Explanations for the Vehicle Routing Problem with Time Windows			
	Emilie Picard-Cantin, Mathieu Bouchard, Claude-Guy	Learning the Parameters of Global Constraints Using Branch-	Gleb Belov, Tobias Czauderna, Maria Garcia de La Banda, Mark	An Optimization Model for 3D Pipe Routing with Flexibility			
	Quimper and Jason Sweeney.	and-Bound	Wallace, Michael Wybrow and Amel Dzaferovic.	Constraints			
15:35 - 16:00	Coffee Break						
	Olio Bluit						