THURSDAY (July 13, 2023)		
09:00-09:10	**ICAPS 2023 Updates** (N1)	
09:10-10:10	**Invited Talk:** (N1, chair: Sven Koenig)	
	Formal and Natural Arguments for Effective Explanations	**Serena Villata**
10:10-11:10	**Main 8 - Optimisation (N1, chair: Alexnder Shleyfman)**	
	Domain-Independent Dynamic Programming: Generic State Space Search for Combinatorial Optimization	Ryo Kuroiwa and Chris Beck
	Solving Domain-Independent Dynamic Programming Problems with Anytime Heuristic Search	Ryo Kuroiwa and Chris Beck
	An Efficient Hybrid Genetic Algorithm for the Quadratic Traveling Salesman Problem	Quang Anh Pham, Hoong Chuin Lau, Minh Hoàng Hà and Lam Vu
	A Constraint Programming Solution to the Guillotine Rectangular Cutting Problem	Sergey Polyakovskiy and Peter Stuckey
10:10-11:10	**Learning 3 (T1, chair: Ivan Serina)**	
	Fast and Robust Resource-Constrained Scheduling with Graph Neural Networks	Florent Teichteil-Königsbuch, Guillaume Povéda, Guillermo Gonzalez de Garibay Barba, Tim Luchterhand and Sylvie Thiebaux
online	*Learning Local Heuristics for Search-Based Navigation Planning (short)*	*Rishi Veerapaneni, Muhammad Suhail Saleem and Maxim Likhachev*
	Automaton-guided Curriculum Generation for Reinforcement Learning Agents	Yash Shukla, Abhishsek Kulkarni, Robert Wright, Alvaro Velasquez and Jivko Sinapov
	Task Phasing: Automated Curriculum Learning from Demonstrations	Vaibhav Bajaj, Guni Sharon and Peter Stone
	Improving Zero-Shot Coordination Performance Based on Policy Similarity (short)	Lebin Yu, Yunbo Qiu, Quanming Yao, Xudong Zhang and Jian Wang
11:10-11:40	COFFEE BREAK (foyer - ground floor)	
11:40-12:40	**Main 9 - Explanation and Recognition (N1, chair: Erez Karpas)**	
online	*Explainable Goal Recognition: A Framework Based on Weight of Evidence*	*Abeer Alshehri, Timothy Miller and Mor Vered*
	Goal Recognition with Timing Information	Chenyuan Zhang, Charles Kemp and Nir Lipovetzky
	Generalizing Action Justification and Causal Links to Policies	Sarath Sreedharan, Christian Muise and Subbarao Kambhampati
	Adaptation and Communication in Human Robot Teaming to Handle Discrepancy in Agents' Beliefs about Plans	Yuening Zhang and Brian Williams
11:40-12:40	**Applications 2 (T1, chair: Neil Yorke-Smith)**	

	Dynamic Weight Setting for Personnel Scheduling with Many Objectives	Lucas Kletzander and Nysret Musliu
	Automated Planning to Prioritise Digital Forensics Investigation Cases Containing Indecent Images of Children	Saad Khan, Simon Parkinson, Monika Roopak, Rachel Armitage and Andrew Barlow
	Combining Heuristic Search and Linear Programming to Compute Realistic Financial Plans (short)	Alberto Pozanco, Kassiani Papasotiriou, Daniel Borrajo and Manuela Veloso
	Moving trains like pebbles: a feasibility study on tree yards	Issa Hanou, Mathijs de Weerdt and Jesse Mulderij
12:40-14:00	LUNCH (foyer - 1. floor)	
14:00-15:30	**Main 10 - Multi-Agent Pathfinding (N1, chair: Daniel Harabor)**	
	Exploiting Geometric Constraints in Multi-Agent Pathfinding	Dor Atzmon, Sara Bernardini, Fabio Fagnani and David Fairbairn
	Binary Branching Multi-Objective Conflict-Based Search for Multi-Agent Path Finding	Zhongqiang Ren, Jiaoyang Li, Han Zhang, Sven Koenig, Sivakumar Rathinam and Howie Choset
	Cost Splitting for Multi-Objective Conflict-Based Search	Cheng Ge, Han Zhang, Jiaoyang Li and Sven Koenig
	Multi Agent Path Finding Under Obstacle Uncertainty	Bar Shofer, Guy Shani and Roni Stern
	Using Simple Incentives to Improve Two-Sided Fairness in Ridesharing Systems	Ashwin Kumar, Yevgeniy Vorobeychik and William Yeoh
online	*Priority-Based Search for the Virtual Network Embedding Problem*	*Yi Zheng, Hang Ma, Sven Koenig, Erik Kline and T. K. Satish Kumar*
14:00-15:00	**Journal 2 (T1, chair: Nicola Gigante)**	
	ProSeqqo: A Generic Solver for Process Planning and Sequencing in Industrial Robotics	László Zahorán and András Kovács
	Decentralized Observation Allocation for a Large-Scale Constellation	Shreya Parjan and Steve Chien
	Multi-UAV Planning for Cooperative Wildfire Coverage and Tracking with Quality-of-Service Guarantees	Esmaeil Seraj, Andrew Silva and Matthew Gombolay
	Search-based task and motion planning for hybrid systems: Agile autonomous vehicles	Zlatan Ajanovic, Enrico Regolin, Barys Shyrokau, Hana Ćatić, Martin Horn and Antonella Ferrara
15:30-16:00	COFFEE BREAK (foyer - ground floor)	
16:00-17:00	**Main 11 - Multi-Agent Pathfinding and Search (N1, chair: Christophe Guettier)**	
	Exact Anytime Multi-Agent Path Finding Using Branch-and-Cut-and-Price and Large Neighborhood Search (short)	Edward Lam, Daniel Harabor, Peter J. Stuckey and Jiaoyang Li

	Beyond Pairwise Reasoning in Multi-Agent Path Finding	Bojie Shen, Zhe Chen, Jiaoyang Li, Muhammad Aamir Cheema, Daniel Harabor and Peter Stuckey
	The Small Solution Hypothesis for MAPF on Strongly Connected Directed Graphs Is True	Bernhard Nebel
online	*Efficient Multi-Query Bi-Objective Search via Contraction Hierarchies*	*Han Zhang, Oren Salzman, Ariel Felner, T. K. Satish Kumar, Carlos Hernández Ulloa and Sven Koenig*
	W-restrained Bidirectional Bounded-Suboptimal Heuristic Search (short)	Dor Atzmon, Shahaf Shperberg, Netanel Sabah, Ariel Felner and Nathan Sturtevant
17:00-17:10	**ICAPS 2023 Closing** (N1)	