TUESDAY (July 11, 2023)			
08:00-09:00	Registration (N3)		
09:00-09:10	ICAPS 2023 Opening (N1)		
09:10-10:10	Invited Talk: (N1, chair: Roman Barták)		
	On Synthesis and Planning for Robot	Hadas Kress-Gazit	
	Behaviors		
10:10-11:10	Main 1 - Numeric Planning (N1, chair: Alvaro	Torralba)	
	Fixing Plans for PDDL+ Problems: Theoretical	Francesco Percassi, Enrico Scala and	
	and Practical Implications	Mauro Vallati	
	Symmetry Detection and Breaking in Linear	Alexander Shleyfman, Ryo Kuroiwa and	
	Cost-Optimal Numeric Planning	J. Christopher Beck	
	Planning over Integers: Compilations and	Daniel Gnad, Malte Helmert, Peter	
	Undecidability (short)	Jonsson and Alexander	
online	Robust Metric Hybrid Planning in Stochastic	Buser Say	
	Nonlinear Domains using Mathematical		
	Optimization		
	Falsification of Cyber-Physical Systems Using	Diego Aineto, Enrico Scala, Eva	
	PDDL+ Planning (short)	Onaindia and Ivan Serina	
10:10-11:10	Learning 1 (T1, chair: Ivan Serina)		
online	Reinforcement Learning for Omega-Regular	Amin Falah, Shibashis Guha and	
	Specifications on Continuous-Time MDP	Ashutosh Trivedi	
	Exploration Policies for On-the-fly Controller	Tomás Delgado, Marco Sánchez	
	Synthesis: a Reinforcement Learning	Sorondo, Víctor Braberman and	
	Approach	Sebastián Uchitel	
	An End-to-End Reinforcement Learning	Pierre Tassel, Martin Gebser and	
	Approach for Job-Shop Scheduling Problems	Konstantin Schekotihin	
	Deceptive Reinforcement Learning in Model-	Alan Lewis and Tim Miller	
	Free Domains		
11:10-11:40	COFFEE BREAK (foyer	r - ground floor)	
11:40-12:40	Main 2 - Classical Planning (N1, chair: Mathijs	de Weerdt)	
	Optimality Certificates for Classical Planning	Esther Mugdan, Remo Christen and	
		Salomé Eriksson	
	Planning for Temporally Extended Goals in	Luigi Bonassi, Giuseppe De Giacomo,	
	Pure-Past Linear Temporal Logic	Marco Favorito, Francesco Fuggitti,	
		Alfonso Emilio Gerevini and Enrico	
		Scala	
	Planning with Multiple Action-Cost Estimates	Eyal Weiss and Gal A. Kaminka	
	A Planning Approach to Repair Domains with	Alba Gragera, Raquel Fuentetaja, Ángel	
	Incomplete Action Effects	García-Olaya and Fernando Fernández	
11:40-12:40	Robotics 1 (T1, chair: Zlatan Ajanovic)		
	Planning for Automated Testing of Implicit	Uwe Köckemann, Daniele Calisi,	
	Constraints in Behavior Trees	Guglielmo Gemignani, Jennifer Renoux	
		and Alessandro Saffiotti	

	Understanding Natural Language in Context	Avichai Levy and Erez Karpas	
	Approximating the Value of Collaborative Team Actions for Efficient Multiagent Navigation in Uncertain Graphs	Martina Stadler, Jacopo Banfi and Nicholas Roy	
	Planning for Manipulation Among Movable Objects: Deciding Which Objects Go Where, In What Order, And How	Dhruv Saxena and Maxim Likhachev	
12:40-14:00	LUNCH & ICAPS 101 Qui	z (foyer - 1. floor)	
14:00-15:30	Main 3 - Scheduling, HTN, and Lifted Planning (N1, chair: Ron Alford)		
	Can They Come Together? A Computational Complexity Analysis of Conjunctive Possible Effects of Compound HTN	Conny Olz and Pascal Bercher	
	On Partial Satisfaction Planning with Total-	Gregor Behnke, David Speck, Michael	
	Order HTNs	Katz and Shirin Sohrabi	
	Operator Pruning using Lifted Mutex Groups via Compilation on Lifted Level	Daniel Fišer	
	Lifted Stackelberg Planning (short)	Philipp Sauer, Marcel Steinmetz, Robert Kuennemann and Joerg Hoffmann	
	Efficient Reasoning about Infeasible One Machine Sequencing	Raúl Mencía, Carlos Mencía and Joao Marques-Silva	
	Sensitivity Analysis for Dynamic Control of	Rosy Chen, Yiran Ma, Siqi Wu and	
	PSTNs with Skewed Distributions (short)	James Boerkoel	
	Parallel Batch Processing for the Coating Problem	Matthias Horn, Emir Demirović and Neil Yorke-Smith	
14:00-15:30	IPC Results 1 (T1, chair: Mauro Vallati)		
	Classical Planning Track	Daniel Fišer and Florian Pommerening	
	Probabilistic Planning Track	Ayal Taitler and Scott Sanner	
	Numeric Planning Track	Joan Espasa Arxer and Enrico Scala	
15:30-16:00	COFFEE BREAK (foyer	- ground floor)	
16:00-17:00	Main 4 - RL and Pathfinding (N1, chair: Daniel	Harabor)	
	Planning in Multi-Agent Domains with	Loc Pham, Tran Cao Son and Enrico	
	Untruthful Announcements	Pontelli	
	Automatic Metamorphic Test Oracles for	Jan Eisenhut, Álvaro Torralba, Maria	
	Action-Policy Testing	Christakis and Joerg Hoffmann	
	Act-Then-Measure: Reinforcement Learning	Merlijn Krale, Thiago D. Simão and Nils	
	for Partially Observable Environments with	Jansen	
	Convexity Hierarchies in Grid Networks	Johannes Blum, Sabine Storandt and Ruoying Li	
16:00-17:00	Journal 1 (T1, chair: Christian Muise)		
	Planning with Perspectives Decomposing	Guang Hu, Tim Miller and Nir	

		Guy Shani, Lera Shtotland, Dorin Shmaryahu and Ronen Brafman
	Online Learning of Variable Ordering Heuristics for Constraint Optimisation Problems	Floris Doolaard and Neil Yorke-Smith
17:00-18:30	Poster (foyer - 1. floor) and System Demo Session (N6, N7, N9)	

17:00-18:30	Poster (fo	yer - 1. floor) and System Demo Sess	
	#	Title	Authors
1	189	DynamicWeight Setting for	Lucas Kletzander and Nysret Musliu
		Personnel Scheduling with Many	
		Objectives	,
2	322	Efficient Evaluation of Large	Daniel Gnad, Silvan Sievers and Álvaro
		Abstractions for Decoupled Search:	Torralba
		Merge-and-Shrink and Symbolic	
		Pattern Databases	
3	331		Ashwin Kumar, Yevgeniy Vorobeychik
		Two-Sided Fairness in Ridesharing	and William Yeoh
		Systems	
4	349	Approximating the Value of	Martina Stadler, Jacopo Banfi and
		Collaborative Team Actions for	Nicholas Roy
		Efficient Multiagent Navigation in	
	262	Uncertain Graphs	S · -1
5	362	Domain Specific Situated Planning	Devin Thomas
-	747	– Dissertation Abstract	
6	717	Finding Matrix Multiplication	David Speck, Paul Höft, Daniel Gnad
		Algorithms with Classical Planning	and Jendrik Seipp
7	1299	Fast and Robust Resource-	Florent Teichteil-Königsbuch,
		Constrained Scheduling with Graph	Guillaume Povéda, Guillermo Gonzalez
		Neural Networks	de Garibay Barba, Tim Luchterhand
			and Sylvie Thiebaux
8	1564	Automation-Guided Curriculum	Yash Shukla, Abhishsek Kulkarni,
		Generation for Reinforcement	Robert Wright, Alvaro Velasquez and
		Learning Agents	Jivko Sinapov
9	1871	Landmark Progression in Heuristic	Clemens Büchner, Thomas Keller,
		Search	Salomé Eriksson and Malte Helmert
10	2500	Combining Clinical and Spatial	Alessandro Umbrico, Marco
		Constraints into Temporal Planning	•
		to Personalize Physical	Amedeo Cesta, Elvira Maranesi,
		Rehabilitation	Andrea Orlandini, Gabriella Cortellessa
	22.42	Blooding Wh. Bo	and Francesca Fracasso
11	3343	Planning with Perspectives	Guang Hu, Tim Miller and Nir
		Decomposing Epistemic Planning	Lipovetzky
13	2452	using Functional STRIPS	Daniel Fixer
12	3452	Operator Pruning using Lifted	Daniel Fišer
		Mutex Groups via Compilation on	
		Lifted Level	

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13	3549	Safety Shielding under Delayed	Filip Cano Córdoba, Alexander
		Observation	Palmisano, Martin Fränzle, Roderick
			Bloem and Bettina Könighofer
14	4148	Timed Partial Order Inference	Kandai Watanabe, Bardh Hoxha, Danil
		Algorithm	Prokhorov, Georgios Fainekos,
			Morteza Lahijanian, Sriram
			Sankaranarayanan and Tomoya
			Yamaguchi
15	4629	Deceptive Reinforcement Learning	Alan Lewis and Tim Miller
		in Model-Free Domains	
16	4882	Planning for Temporally Extended	Luigi Bonassi, Giuseppe De Giacomo,
		Goals in Pure-Past Linear Temporal	Marco Favorito, Francesco Fuggitti,
		Logic	Alfonso Emilio Gerevini and Enrico
			Scala
17	5455	Planning with Multi-agent Belief	Guang Hu, Tim Miller and Nir
		using Justified Perspectives	Lipovetzky
18	5733	Combining Heuristic Search and	Alberto Pozanco, Kassiani Papasotiriou
		Linear Programming to Compute	and Daniel Borrajo
		Realistic Financial Plans	
19	5858	Planning for Attacker Entrapment	Brittany Cates, Anagha Kulkarni and
		in Adversarial Settings	Sarath Sreedharan
20	6364	Planning for Manipulation Among	Dhruv Saxena and Maxim Likhachev
		Movable Objects: Deciding Which	
		Objects Go Where, In What Order,	
		And How	
21	6492	Moving trains like pebbles: a	Issa Hanou, Mathijs de Weerdt and
		feasibility study on tree yards	Jesse Mulderij
22	6666	Fixing Plans for PDDL+ Problems:	Francesco Percassi, Enrico Scala and
		Theoretical and Practical	Mauro Vallati
		Implications	
23	6685	Act-Then-Measure: Reinforcement	Merlijn Krale, Thiago D. Simão and Nils
		Learning for Partially Observable	Jansen
		Environments with Active	
		Measuring	
24	7001	Understanding Natural Language in	Avichai Levy and Erez Karpas
		Context	
25	7212	Exploration Policies for On-the-Fly	Tomás Delgado, Marco Sánchez
		Controller Synthesis: A	Sorondo, Víctor Braberman and
		Reinforcement Learning Approach	Sebastián Uchitel
26	7227	Computing Domain Abstractions	Raphael Kreft, Clemens Büchner, Silvan
		for Optimal Classical Planning with	Sievers and Malte Helmert
		Counterexample-Guided	
		Abstraction Refinement	

27	7324	Task Phasing: Automated Curriculum Learning from Demonstrations	Vaibhav Bajaj, Guni Sharon and Peter Stone
28	7752	Optimization Methods for Facility Location in Reverse Logistics	Ida Gjergji and Nysret Musliu
29	8471	Grounding Planning Tasks Using Tree Decompositions and Iterated Solving	Augusto B. Corrêa, Markus Hecher, Malte Helmert, Davide Mario Longo, Florian Pommerening and Stefan Woltran
30	9037	Goal Recognition with Timing Information	Chenyuan Zhang, Charles Kemp and Nir Lipovetzky
31	9210	Safe MDP Planning by Learning Temporal Patterns of Undesirable Trajectories and Averting Negative Side Effects	Siow Meng Low, Akshat Kumar and Scott Sanner
32	9685	A Planning Approach to Repair Domains with Incomplete Action Effects	Alba Gragera, Raquel Fuentetaja, Ángel García-Olaya and Fernando Fernández