

# INDEX

- Additive-Disjunctive Heuristics for Optimal Planning, 44  
Angelic Hierarchical Planning: Optimal and Online Algorithms, 222  
Auder, Benjamin, 164
- Bagnell, J. Andrew, 412  
Bakker, Piet, 372  
Ball, Marcel, 2  
Beaudoin, Mathieu, 12  
Beaudry, Eric, 12  
Beck, Chris, ix  
Beldiceanu, Nicolas, 264  
Belghith, Khaled, 164  
Bellefeuille, Philippe, 164  
Benaskeur, Abder Rezak, 12  
Benton, J., 404  
Bohte, Sander, 372  
Borrajó, Daniel, 60  
Botea, Adi, 380  
Boularias, Abdeslam, 20  
Bounded-Parameter Partially Observable Markov Decision Processes, 240  
Brafman, Ronen I., 28, 330
- Causal Graphs and Structurally Restricted Planning, 36  
Chaib-draa, Brahim, 20  
Chen, Hubie, 36  
CircuitTSAT: A Solver for Large Instances of the Disjunctive Temporal Problem, 232  
Coles, Andrew, 44, 52  
Compact and Efficient SAT Encoding for Planning, A, 296  
Complexity of Optimal Planning and a More Efficient Method for Finding Solutions, The, 280  
Compression Power of Symbolic Pattern Databases, The, 2  
Criticality Metrics for Distributed Plan and Schedule Management, 214
- Dearden, Richard, 346  
Decentralized Online Scheduling of Combination-Appointments in Hospitals, 372  
De Giacomo, Giuseppe, 304
- de la Rosa, Tomás, 60  
desJardins, Marie, 288  
de Weerd, Mathijs, 256  
Dey, Anind K., 412  
Do, Minh B., 68  
Doherty, Patrick, 198  
Domshlak, Carmel, 28, 174, 182
- Effective Information Value Calculation for Interruption Management in Multi-Agent Scheduling, 313  
Efficient ADD Operations for Point-Based Algorithms, 330  
Elkhuizen, Sylvia, 372  
Ernst, Andreas, 76  
Exact Dynamic Programming for Decentralized POMDPs with Lossless Policy Compression, 20
- Fast and Memory-Efficient Multi-Agent Pathfinding, 380  
Fast Dynamic Scheduling of Disjunctive Temporal Constraint Networks through Incremental Compilation, 322  
Fast Planning for Dynamic Preferences, 412  
Faster than Weighted A\*: An Optimistic Approach to Bounded Suboptimal Search, 355  
Filtering for a Continuous Multi-Resources *cumulative* Constraint with Resource Consumption and Production, 264  
Fox, Maria, 44, 52  
From One to Many: Planning for Loosely Coupled Multi-Agent Systems, 28  
Fu, Na, 83
- Geffner, Héctor, 140  
Geib, Christopher W., 91  
Generating Robust Schedules Subject to Resource and Duration Uncertainties, 83  
Generative Planning for Hybrid Systems Based on Flow Tubes, 206  
Giménez, Omer, 36, 99  
Ginsberg, Matthew L., 280  
Giuliano, Mark E., 107
- Givan, Robert, 396  
Goldman, Robert P., 91, 190  
González, Miguel A., 116  
González-Rodríguez, Inés, 124  
Gretton, Charles, 296  
Grosz, Barbara J., 313
- Hansen, Eric, ix  
Hartman, Leo, 164  
Haslum, Patrik, 132  
Heintz, Fredrik, 198  
Helmert, Malte, 140  
HiPPo: Hierarchical POMDPs for Planning Information Processing and Sensing Actions on a Robot, 346  
Holte, Robert C., 2  
Howe, Adele E., 288  
Hybrid Relaxed Planning Graph—LP Heuristic for Numeric Planning Domains, A, 52
- Jeanet, Gildas, 148  
Jiménez, Sergio, 60  
Johnston, Mark D., 107  
Jonsson, Anders, 99  
Joshi, Saket, 156
- Kabanza, Froduald, 12, 164  
Kalyanam, Rajesh, 396  
Kambhampati, Subbarao, 404  
Katz, Michael, 174, 182  
Khardon, Roni, 156  
Kumar, T. K. Satish, 232  
Kupferschmid, Sebastian, 388  
Kuter, Ugur, 190  
Kvarnström, Jonas, 198
- La Poutré, Han, 372  
Lau, Hoong Chuin, 83  
Learning Heuristic Functions through Approximate Linear Programming, 248  
Learning Relational Decision Trees for Guiding Heuristic Planning, 60  
Li, Hui X., 206

- Linear Relaxation Techniques for Task Management in Uncertain Settings, 363
- Liu, Zhi-Qiang, 240
- Long, Derek, 44, 52
- Maheswaran, Rajiv T., 214
- Maraist, John, 91
- Marthi, Bhaskara, 222
- Multiagent Planning Under Uncertainty with Stochastic Communication Delays, 338
- Multi-Objective Evolutionary Algorithms for Scheduling the James Webb Space Telescope, 107
- Nau, Dana, 190
- Nebel, Bernhard, ix
- Nelson, Blaine, 232
- New Approach to Tractable Planning, A, 132
- New Hybrid Genetic Algorithm for the Job Shop Scheduling Problem with Setup Times, A, 116
- New Local Search for the Job Shop Problem with Uncertain Durations, A, 124
- New Probabilistic Plan Recognition Algorithm Based on String Rewriting, A, 91
- Ni, Yaodong, 240
- Oliehoek, Frans A., 338
- Online Learning Method for Improving Over-Subscription Planning, A, 404
- Optimal Additive Composition of Abstraction-based Admissible Heuristics, 174
- Organizing Committee, xi
- Owotoki, Peter, 313
- P<sup>3</sup>C: A New Algorithm for the Simple Temporal Problem, 256
- Petrik, Marek, 248
- Pham, Duc-Nghia, 296
- Planken, Léon, 256
- Planning 3D Task Demonstrations of a Teleoperated Space Robot Arm, 164
- Planning for Modular Printers: Beyond Productivity, 68
- Podelski, Andreas, 388
- Poder, Emmanuel, 264
- Poupart, Pascal, 330
- Pralet, Cédric, 272
- Preface, ix
- Probabilistic Planner for the Combat Power Management Problem, A, 12
- Program Committee, xiii
- Puente, Jorge, 124
- Rank-Dependent Probability Weighting in Sequential Decision Problems under Uncertainty, 148
- Ray, Katrina, 280
- Realizing Multiple Autonomous Agents through Scheduling of Shared Devices, 304
- Reisner, Elnatan, 190
- Rintanen, Jussi, ix
- Roberts, Mark, 288
- Robinson, Nathan, 296
- Ruml, Wheeler, 68, 355
- Russell, Stuart, 222
- Sardina, Sebastian, 304
- Sarne, David, 313
- Sattar, Abdul, 296
- Scheduling Meetings at Trade Events with Complex Preferences, 76
- Search of the Tractability Boundary of Planning Problems, In, 99
- Shah, Julie A., 322
- Shani, Guy, 330
- Shimony, Solomon E., 330
- Singh, Gaurav, 76
- Smith, Amanda, 44, 52
- Smith, Stephen F., 363
- Spaan, Matthijs T. J., 338
- Spanjaard, Olivier, 148
- Sridharan, Mohan, 346
- Stochastic Enforced Hill-Climbing, 396
- Stochastic Planning with First Order Decision Diagrams, 156
- Structural Patterns Heuristics via Fork Decomposition, 182
- Szekely, Pedro, 214
- Temporal Logic-Based Planning and Execution Monitoring System, A, 198
- Thayer, Jordan T., 355
- Unifying the Causal Graph and Additive Heuristics, 140
- Useless Actions Are Useful, 388
- Using Classical Planners to Solve Non-deterministic Planning Problems, 190
- Using Constraint Networks on Timelines to Model and Solve Planning and Scheduling Problems, 272
- van der Krogt, Roman, 256
- Varakantham, Pradeep, 363
- Varela, Ramiro, 116, 124
- Vela, Camino R., 116, 124
- Verfaillie, Gérard, 272
- Vermeulen, Ivan, 372
- Vlassis, Nikos, 338
- Wang, Ko-Hsin Cindy, 380
- Wehrle, Martin, 388
- Weiskircher, René, 76
- What Makes Planners Predictable?, 288
- Williams, Brian C., 206, 322
- Wilson, Brandon, 288
- Wolfe, Jason, 222
- Wu, Jia-Hong, 396
- Wyatt, Jeremy, 346
- Xiao, Fei, 83
- Yoon, Sungwook, 404
- Zhou, Rong, 68
- Ziebart, Brian D., 412
- Zilberstein, Shlomo, 248