

Formalising Mathematics to Obtain Verified AI and Optimisation Software: References

- [1] Atila Abdulkadiroğlu. College admissions with affirmative action. *International Journal of Game Theory*, 33(4):535–549, Nov 2005.
- [2] Péter Biró, Joris van de Klundert, David Manlove, William Pettersson, Tommy Andersson, Lisa Burnapp, Pavel Chromy, Pablo Delgado, Piotr Dworczak, Bernadette Haase, Aline Hemke, Rachel Johnson, Xenia Klimentova, Dirk Kuypers, Alessandro Nanni Costa, Bart Smeulders, Frits Spijksma, María O. Valentin, and Ana Viana. Modelling and optimisation in european kidney exchange programmes. *European Journal of Operational Research*, 291(2):447–456, 2021.
- [3] Abigail Breitfeld, Alberto Candela, Juan Delfa, Akseli Kangaslahti, Itai Zilberstein, Steve Chien, and David Wettergreen. Learning-based planning for improving science return of earth observation satellites. In *Proceedings of the International Symposium on Artificial Intelligence, Robotics and Automation in Space*, 11 2024.
- [4] Ulrich Brenner. Vlsi legalization with minimum perturbation by iterative augmentation. In *2012 Design, Automation & Test in Europe Conference & Exhibition (DATE)*, pages 1385–1390, 2012.
- [5] Ulrich Brenner, Anna Pauli, and Jens Vygen. Almost optimum placement legalization by minimum cost flow and dynamic programming. In *Proceedings of the 2004 International Symposium on Physical Design, ISPD '04*, page 2–9, New York, NY, USA, 2004. Association for Computing Machinery.
- [6] Michael Cashmore, Maria Fox, Derek Long, Daniele Magazzeni, Bram Ridder, Arnau Carrera, Narcís Palomeras, Natàlia Hurtós, and Marc Carreras. Rosplan: Planning in the robot operating system. In *Proceedings International Conference on Automated Planning and Scheduling, ICAPS*, volume 2015-Janua, pages 333–341, 2015.
- [7] Minsik Cho, Haoxing Ren, Hua Xiang, and Ruchir Puri. History-based vlsi legalization using network flow. In *Proceedings of the 47th Design Automation Conference, DAC '10*, page 286–291, New York, NY, USA, 2010. Association for Computing Machinery.
- [8] Maxence Delorme, Sergio García, Jacek Gondzio, Jörg Kalcsics, David Manlove, William Pettersson, and James Trimble. Improved instance generation for kidney exchange programmes. *Computers & Operations Research*, 141:105707, 2022.
- [9] K. Doll, F.M. Johannes, and K.J. Antreich. Iterative placement improvement by network flow methods. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, 13(10):1189–1200, 1994.
- [10] Tara Estlin, Gregg Rabideau, Darren Mutz, and Steve Chien. Using continuous planning techniques to coordinate multiple rovers. *Electronic Transactions on Artificial Intelligence*, 2000.
- [11] Jia-Wei Fang, I-Jye Lin, Yao-Wen Chang, and Jyh-Herng Wang. A network-flow-based rdl routing algorithmz for flip-chip design. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, 26(8):1417–1429, 2007.
- [12] Mark Feblowitz, Oktie Hassanzadeh, Michael Katz, Shirin Sohrabi, Kavitha Srinivas, and Octavian Udrea. Ibm scenario planning advisor: A neuro-symbolic erm solution. In *35th AAAI Conference on Artificial Intelligence, AAAI 2021*, volume 18, 2021.
- [13] Jiang Hu and Sachin S. Sapatnekar. A survey on multi-net global routing for integrated circuits. *Integration*, 31(1):1–49, 2001.
- [14] Akseli Kangaslahti, Itai Zilberstein, Alberto Candela, and Steve Chien. Search applications for integrated planning and execution of satellite observations using dynamic targeting, 4 2025.
- [15] Russell Knight, Gregg Rabideau, Steve Chien, Barbara Engelhardt, and Rob Sherwood. Casper: Space exploration through continuous planning. *IEEE Intelligent Systems*, 16, 2001.
- [16] Somaiyeh MahmoudZadeh, David M.W Powers, Karl Sammut, Adham Atiyabi, and Amirmehdi Yazdani. A hierarchal planning framework for auv mission management in a spatiotemporal varying ocean. *Computers and Electrical Engineering*, 67, 2018.
- [17] Aranyak Mehta, Amin Saberi, Umesh Vazirani, and Vijay Vazirani. Adwords and generalized online matching. *J. ACM*, 54(5):22–es, October 2007.
- [18] Nicola Policella, Henrique Oliveira, and Tero Siili. Skeyp: Ai applied to soho keyhole operations. In *Proceedings - 2009 3rd IEEE International Conference on Space Mission Challenges for Information Technology, SMC-IT 2009*, 2009.
- [19] Shirin Sohrabi. Ai planning for enterprise: Putting theory into practice. In *IJCAI International Joint Conference on Artificial Intelligence*, volume 2019-August, 2019.
- [20] Kevin Tierney, Amanda Coles, Andrew Coles, Christian Kroer, Adam M. Britt, and Rune Møller Jensen. Automated planning for liner shipping fleet repositioning. In *ICAPS 2012 - Proceedings of the 22nd International Conference on Automated Planning and Scheduling*, 2012.