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- [5] José-Fernando Camacho-Vallejo, Álvaro Eduardo Cordero-Franco, and Rosa G González-Ramírez. 2014. Solving the bilevel facility location problem under preferences by a Stackelberg-evolutionary algorithm. *Mathematical Problems in Engineering* 2014 (2014).
  - [6] Jakub Černý, Branislav Bojanský, and Christopher Kiekintveld. 2018. Incremental strategy generation for Stackelberg equilibria in extensive-form games. In *Proceedings of the 2018 ACM Conference on Economics and Computation*. ACM, 151–168.
  - [7] Carlos A Coello Coello and Gary B Lamont. 2004. *Applications of multi-objective evolutionary algorithms*. Vol. 1. World Scientific.
  - [8] Benoît Colson, Patrice Marcotte, and Gilles Savard. 2007. An overview of bilevel optimization. *Annals of operations research* 153, 1 (2007), 235–256.
  - [9] Vincent Conitzer and Tuomas Sandholm. 2006. Computing the optimal strategy to commit to. In *Proceedings of the 7th ACM conference on Electronic commerce*. ACM, 82–90.
  - [10] James W Friedman. 1986. *Game theory with applications to economics*. Vol. 87. Oxford University Press New York.
  - [11] Abhishek Gupta, Jacek Mańdziuk, and Yew-Soon Ong. 2015. Evolutionary multitasking in bi-level optimization. *Complex & Intelligent Systems* 1, 1-4 (2015), 83–95.
  - [12] Jeffrey Horn, Nicholas Nafpliotis, and David Goldberg. 1994. A niched Pareto genetic algorithm for multiobjective optimization. In *Proceedings of the first IEEE Conference on Evolutionary Computation, IEEE World Congress on Computational Intelligence*, Vol. 1. Citeseer, 82–87.
  - [13] Yong Hu, Kang Liu, Xiangzhou Zhang, Lijun Su, EWT Ngai, and Mei Liu. 2015. Application of evolutionary computation for rule discovery in stock algorithmic trading: A literature review. *Applied Soft Computing* 36 (2015), 534–551.
  - [14] Manish Jain, Dmytro Korzhuk, Ondřej Vaněk, Vincent Conitzer, Michal Pěchouček, and Milind Tambe. 2011. A double oracle algorithm for zero-sum security games on graphs. In *The 10th International Conference on Autonomous Agents and Multiagent Systems-Volume 1*. International Foundation for Autonomous Agents and Multiagent Systems, 327–334.
  - [15] Manish Jain, Jason Tsai, James Pita, Christopher Kiekintveld, Shyamsunder Rathi, Milind Tambe, and Fernando Ordóñez. 2010. Software assistants for randomized patrol planning for the lax airport police and the federal air marshal service. *Interfaces* 40, 4 (2010), 267–290.
  - [16] Jan Karwowski and Jacek Mańdziuk. 2015. A new approach to security games. In *International Conference on Artificial Intelligence and Soft Computing*. Springer, 402–411.
  - [17] Jan Karwowski and Jacek Mańdziuk. 2016. Mixed Strategy Extraction from UCT Tree in Security Games. In *Proceedings of the Twenty-Second European Conference on Artificial Intelligence (The Hague, The Netherlands) (ECAI'16)*. IOS Press, NLD, 1746–1747.
  - [18] Jan Karwowski and Jacek Mańdziuk. 2019. A Monte Carlo Tree Search approach to finding efficient patrolling schemes on graphs. *European Journal of Operational Research* 277, 1 (2019), 255–268.
  - [19] Jan Karwowski and Jacek Mańdziuk. 2019. Stackelberg Equilibrium Approximation in General-Sum Extensive-Form Games with Double-Oracle Sampling Method. In *Proceedings of the 18th International Conference on Autonomous Agents and Multiagent Systems*. International Foundation for Autonomous Agents and Multiagent Systems, 2045–2047.
  - [20] Jan Karwowski, Jacek Mańdziuk, Adam Żychowski, Filip Grajek, and Bo An. 2019. A memetic approach for sequential security games on a plane with moving targets. In *Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence*. 970–977.
  - [21] Jan Karwowski and Jacek Mańdziuk. 2020. Double-oracle sampling method for Stackelberg Equilibrium approximation in general-sum extensive-form games. In *Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence*. 2054–2061.
  - [22] Christopher Kiekintveld, Manish Jain, Jason Tsai, James Pita, Fernando Ordóñez, and Milind Tambe. 2009. Computing optimal randomized resource allocations for massive security games. In *Proceedings of The 8th International Conference on Autonomous Agents and Multiagent Systems-Volume 1*. International Foundation for Autonomous Agents and Multiagent Systems, 689–696.
  - [23] Christopher Kiekintveld and Vladik Kreinovich. 2012. Efficient approximation for security games with interval uncertainty. In *2012 AAAI Spring Symposium Series*. 42–46.
  - [24] Levente Kocsis and Csaba Szepesvári. 2006. Bandit based monte-carlo planning. In *European conference on machine learning*. Springer, 282–293.
  - [25] Harold W Kuhn. 1950. Extensive games. *Proceedings of the National Academy of Sciences of the United States of America* 36, 10 (1950), 570.
  - [26] VS Anil Kumar, Rajmohan Rajaraman, Zhifeng Sun, and Ravi Sundaram. 2010. Existence theorems and approximation algorithms for generalized network security games. In *2010 IEEE 30th International Conference on Distributed Computing Systems*. IEEE, 348–357.
  - [27] George Leitmann. 1978. On generalized Stackelberg strategies. *Journal of optimization theory and applications* 26, 4 (1978), 637–643.
  - [28] Jacek Mańdziuk, Jan Karwowski, and Adam Żychowski. 2019. *Simulation-based methods in multi-step Stackelberg Security Games in the context of homeland security*. <https://sg.mini.pw.edu.pl>.
  - [29] Jacek Mańdziuk and Adam Żychowski. 2016. A memetic approach to vehicle routing problem with dynamic requests. *Applied Soft Computing* 48 (2016), 522–534.
  - [30] Nolan McCarty and Adam Meirowitz. 2007. *Political game theory: an introduction*. Cambridge University Press.
  - [31] Geoffrey A Parker and J Maynard Smith. 1990. Optimality theory in evolutionary biology. *Nature* 348, 6296 (1990), 27–33.
  - [32] Praveen Paruchuri, Jonathan P Pearce, Janusz Marecki, Milind Tambe, Fernando Ordóñez, and Sarit Kraus. 2008. Playing games for security: An efficient exact algorithm for solving Bayesian Stackelberg games. In *Proceedings of the 7th International Joint Conference on Autonomous Agents and Multiagent Systems*. International Foundation for Autonomous Agents and Multiagent Systems, 895–902.
  - [33] Ramin Rajabioun, Esmaeil Atashpaz-Gargari, and Caro Lucas. 2008. Colonial competitive algorithm as a tool for Nash equilibrium point achievement. In *International Conference on Computational Science and Its Applications*. Springer, 680–695.
  - [34] Masatoshi Sakawa, Ichiro Nishizaki. 2000. Computational methods through genetic algorithms for obtaining Stackelberg solutions to two-level mixed zero-one programming problems. *Cybernetics & Systems* 31, 2 (2000), 203–221.
  - [35] M Sefrioui and J Perlaux. 2000. Nash genetic algorithms: examples and applications. In *Proceedings of the 2000 Congress on Evolutionary Computation. CEC00 (Cat. No. 00TH8512)*, Vol. 1. IEEE, 509–516.
  - [36] Eric Shieh, Bo An, Rong Yang, Milind Tambe, Craig Baldwin, Joseph DiRenzo, Ben Maule, and Garrett Meyer. 2012. Protect: A deployed game theoretic system to protect the ports of the united states. In *Proceedings of the 11th International Conference on Autonomous Agents and Multiagent Systems-Volume 1*. International Foundation for Autonomous Agents and Multiagent Systems, 13–20.
  - [37] Arunesh Sinha, Fei Fang, Bo An, Christopher Kiekintveld, and Milind Tambe. 2018. Stackelberg Security Games: Looking Beyond a Decade of Success. In *IJCAI*. 5494–5501.
  - [38] Marco Slikker and Anne Van den Nouweland. 2012. *Social and economic networks in cooperative game theory*. Vol. 27. Springer Science & Business Media.
  - [39] Thomas Vallée and Tamer Başar. 1999. Off-line computation of Stackelberg solutions with the genetic algorithm. *Computational Economics* 13, 3 (1999), 201–209.
  - [40] Marten Van Dijk, Ari Juels, Alina Oprea, and Ronald L Rivest. 2013. FlipIt: The game of stealthy takeover. *Journal of Cryptology* 26, 4 (2013), 655–713.
  - [41] Jiří Čermák, Branislav Bojanský, Karel Durkota, Viliam Lisý, and Christopher Kiekintveld. 2016. Using Correlated Strategies for Computing Stackelberg Equilibria in Extensive-Form Games. In *Proceedings of the Thirty AAAI Conference on Artificial Intelligence*. 439–445.
  - [42] Heinrich Von Stackelberg. 1934. *Marktform und gleichgewicht*. Springer.
  - [43] Yufei Wang, Zheyuan Ryan Shi, Lantao Yu, Yi Wu, Rohit Singh, Lucas Joppa, and Fei Fang. 2019. Deep reinforcement learning for green security games with real-time information. In *Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence*. 1401–1408.
  - [44] Rong Yang, Benjamin Ford, Milind Tambe, and Andrew Lemieux. 2014. Adaptive resource allocation for wildlife protection against illegal poachers. In *Proceedings of the 2014 International Conference on Autonomous Agents and Multiagent Systems*. International Foundation for Autonomous Agents and Multiagent Systems, 453–460.
  - [45] Zhengyu Yin, Albert Xin Jiang, Matthew P Johnson, Christopher Kiekintveld, Kevin Leyton-Brown, Tuomas Sandholm, Milind Tambe, and John P Sullivan. 2012. Trusts: Scheduling randomized patrols for fare inspection in transit systems. In *Proceedings of the Twenty-Fourth Conference on Innovative Applications of Artificial Intelligence*. 59.
  - [46] Adam Żychowski, Abhishek Gupta, Jacek Mańdziuk, and Yew Soon Ong. 2018. Addressing expensive multi-objective games with postponed preference articulation via memetic co-evolution. *Knowledge-Based Systems* 154 (2018), 17–31.
  - [47] Adam Żychowski and Jacek Mańdziuk. 2020. A Generic Metaheuristic Approach to Sequential Security Games. In *Proceedings of the 19th International Conference on Autonomous Agents and Multiagent Systems*. International Foundation for Autonomous Agents and Multiagent Systems, 2089–2091.