

Yongho Shin

Dept. of Computer Science, Yonsei University
50 Yonsei-ro, Seodaemun-gu
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Current Position	Graduate student, Yonsei University, South Korea Advisor: Hyung-Chan An	Mar 2018 - present
Education	B.S. in Computer Science, Yonsei University, South Korea Awarded <i>high honors at graduation</i>	Feb 2018
Research Interests	Combinatorial optimization Approximation algorithms Online algorithms and competitive analysis Theoretical computer science	
Research Papers	<p>Y. Shin, C. Lee, and H.-C. An. On optimal consistency-robustness trade-off for learning-augmented multi-option ski rental. <i>arXiv preprint arXiv:2312.02547</i>, 2023.</p> <p>Y. Shin, C. Lee, G. Lee, and H.-C. An. Improved learning-augmented algorithms for the multi-option ski rental problem via best-possible competitive analysis. In <i>ICML 2023: Proceedings of the 40th International Conference on Machine Learning</i>, PMLR 202, pages 31539-31561, 2023.</p> <p>K. Kim, Y. Shin, and H.-C. An. Constant-factor approximation algorithms for parity-constrained facility location and k-center. <i>Algorithmica</i> 85, pages 1883–1911, 2023.</p> <ul style="list-style-type: none">- K. Kim, Y. Shin, and H.-C. An. Constant-factor approximation algorithms for the parity-constrained facility location problem. In <i>ISAAC 2020: Proceedings of the 31st International Symposium on Algorithms and Computation</i>, pages 21:1-21:17, 2020. <p>Y. Shin and H.-C. An. Making three out of two: three-way online correlated selection. In <i>ISAAC 2021: Proceedings of the 32nd International Symposium on Algorithms and Computation</i>, pages 49:1-49:17, 2021.</p> <p>Y. Shin, K. Kim, S. Lee, and H.-C. An. Online graph matching problem with a worst-case reassignment budget. <i>arXiv preprint arXiv:2003.05175</i>, 2020.</p>	
Awards	<i>High honors at graduation</i> , Yonsei University	Feb 2018
Teaching	Teaching assistant, Yonsei University CCO 2103 (Data structures) CSI 3108 (Algorithm analysis) CSI 2103 (Data structures)	Spring 2023 Fall 2018-2021 Spring 2018-2021
Experience	Visiting research intern, Cornell University Host: David B. Shmoys	Sep 2022 - Dec 2022

Research intern, Yonsei University
Advisor: Hyung-Chan An

Jan 2017 - Feb 2018

Programmer, Republic of Korea Air Force

Nov 2013 - Aug 2015