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Research fields

Theoretical Computer Science
Design and Analysis of Algorithms

Key Words

online algorithm
approximation algorithm
competitive analysis

Subject of research on Data Science :

theoretical performance analysis of
algorithms
design of algorithms

1. Hiroshi Fujiwara, Keiji Hirao, and Hiroaki Yamamoto. Best Possible Algorithms for One-Way Trading with only the Maximum Fluctuation Ratio Available. IEICE Transactions on Information and Systems, Vol. E107-D, No. 3, pp. 278-285, IEICE, 2024.
2. Hiroshi Fujiwara, Masaya Kawaguchi, Daiki Takizawa, and Hiroaki Yamamoto. Optimal Online Bin Packing Algorithms for Some Cases with Two Item Sizes. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Vol. E106-A, No. 9, pp. 1100-1110, IEICE, 2023.
3. Hiroshi Fujiwara, Kanaho Hanji, and Hiroaki Yamamoto. Online Removable Knapsack Problem for Integer-Sized Unweighted Items. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Vol. E105-A, No. 9, pp. 1195-1202, IEICE, 2022.
4. Hiroshi Fujiwara, Yuichi Shirai, and Hiroaki Yamamoto. The Huffman Tree Problem with Upper-Bounded Linear Functions. IEICE Transactions on Information and Systems, Vol. E105-D, No. 3, pp. 474-480, 2022.