

Diving Falcon Solver

Daiki Tanaka
NTT DATA Mathematical Systems Inc.

May 14, 2026

Our solver is dedicated for the Market Split problem and does not support other problem types.

Our solver enumerates all feasible solutions using lattice basis reduction and parallel depth-first search. For details of the algorithm, please refer to Wassermann [1].

References

- [1] Alfred Wassermann, “Attacking the market split problem with lattice point enumeration,” J. Comb. Optim. 6, 5–16 (2002).