

Appendix C. The parameter settings of the algorithms.

Table C1 The parameter settings of the algorithms.

Algorithm	Parameter	Description	Value
ALNS	GENERATION	Maximum generation	300
	TEMPERATURE	Initial temperature	1200
	Cooling Rate	Cooling rate of simulate annealing	0.95
	Destroy Weight	The initial weight of destroy operators	1
	Repair Weight	The initial weight of repair operators	1
	Destruction Rate	Proportion of vessels removed per destroy operation	0.1-0.5
	Score1	Score when finding a current best solution	3
	Score2	Score when finding a solution better than the current solution	1.5
	Score3	Score when the solution is rejected	0
GA	GENERATION	Maximum generation	300
	POP	Population size	100
	Pc	Probability of crossover	0.7
	Pm	Probability of mutation	0.3-0.5
GA+ALNS	GENERATION	Maximum generation	300
	POP	Population size	100
	Pc	Basic probability of crossover	0.5
	Pm	Basic probability of mutation	0.2
	α	Learning rate	0.1
	γ	Discount factor	0.8
	ε	Exploration rate	0.2
	Destroy Weight	The initial weight of destroy operators	1
	Repair Weight	The initial weight of repair operators	1
	Destruction Rate	Proportion of vessels removed per destroy operation	0.1-0.5