

	1	2	3	4	5	6	7	8	9
<b>Taxonomy</b>	Dynamic and stochastic	Static	Dynamic and stochastic	Static	Static	Stochastic	Dynamic and stochastic	Static	Dynamic and stochastic
<b>Problem focus</b>	Real-time prediction of demand and dynamic relocation model	Optimal relocation of shared bikes	Dynamic rebalancing in shared mobility systems	Ideal distribution of bikes	Optimal relocation to meet user demand	Decide the number of battery swappers needed for a system	Compare the performance of different electric scooter sharing design options	Assign chargers to E-scooters	Optimal relocation and battery swapping
<b>Demand</b>	Prediction from a neural network trained on historical data	Historical data	Monte Carlo simulation with 100 random demand scenarios	Historical data	Historical data	Historical data	Poisson processes (temporal) and Kernel Density Estimation (spatial)	Historical data	Historical data
<b>Objective function</b>	Maximization of user satisfaction	Minimize the make-span of the rebalancing fleet	Minimize general cost metric	Minimizing repositioning time	Minimize unmet demand and operational time	Minimize the number of e-scooters with the battery below a threshold	Maximize the number of satisfied trips	Minimizing cost of charging e-scooter	Maximize customer utility
<b>Size of solvable instances</b>	200 bikes	300 bikes	225 stations	450 stations + 1000 bikes + 100 malfunction bikes	400 nodes (bikes or clusters)	100 e-scooters	2000 e-scooters	564 e-scooters	200 stations
<b>Modeling method</b>	Decision support system - two-part VRP (pick up and delivery)	Nested large neighborhood search + variable neighborhood descent algorithm	Two-stage stochastic approximation	Greedy-genetic heuristic	Chemical Reaction Optimization	Simulation	Simulation	MIP - solved with college admission algorithm	Two-Stage Stochastic Programming Column Generation Heuristic
<b>Main decisions</b>	Relocation and Routing	Routing and Relocation	Routing schedules	Relocation and Routing	Relocation and Routing	Number of swappers/verticals	System variables	Relocation and Routing	Routing and relocation
<b>Multiple Vehicles</b>	Yes	Yes	Yes	Yes	Yes	Yes - Swappers	Yes	Yes	Yes
<b>Depot oriented</b>	No	Yes	No	Yes	Yes	No	No	No	Yes
<b>Type of system</b>	FFBSS	FFBSS	Shared mobility systems	FFBSS	FFBSS	ESS	ESS	ESS	Electric BSS
<b>Study area</b>	N/A	Tampa & Chicago	Philadelphia	Chicago	New York	Washington	Minneapolis and Louisville	Major cities worldwide	Oslo