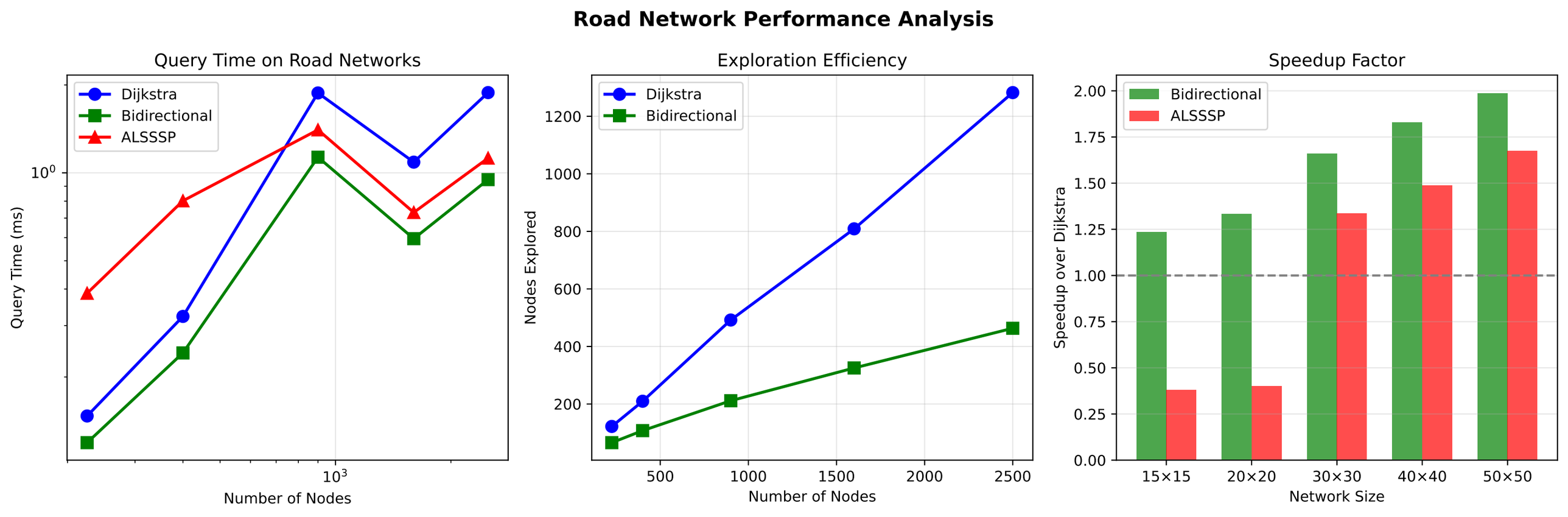
Road Network Performance Analysis
Query Time on Road Networks
Dijkstra
Bidirectional
ALSSSP
10^0
10^3
Query Time (ms)
Number of Nodes
Exploration Efficiency
Dijkstra
Bidirectional
Nodes Explored
200
400
600
800
1000
1200
500
1000
1500
2000
2500
Number of Nodes
Speedup Factor
Bidirectional
ALSSSP
Speedup over Dijkstra
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
2.00
15×15
20×20
30×30
40×40
50×50
Network Size