

Full results for the article

On-Demand Public Transportation

Invariance from the actual instance

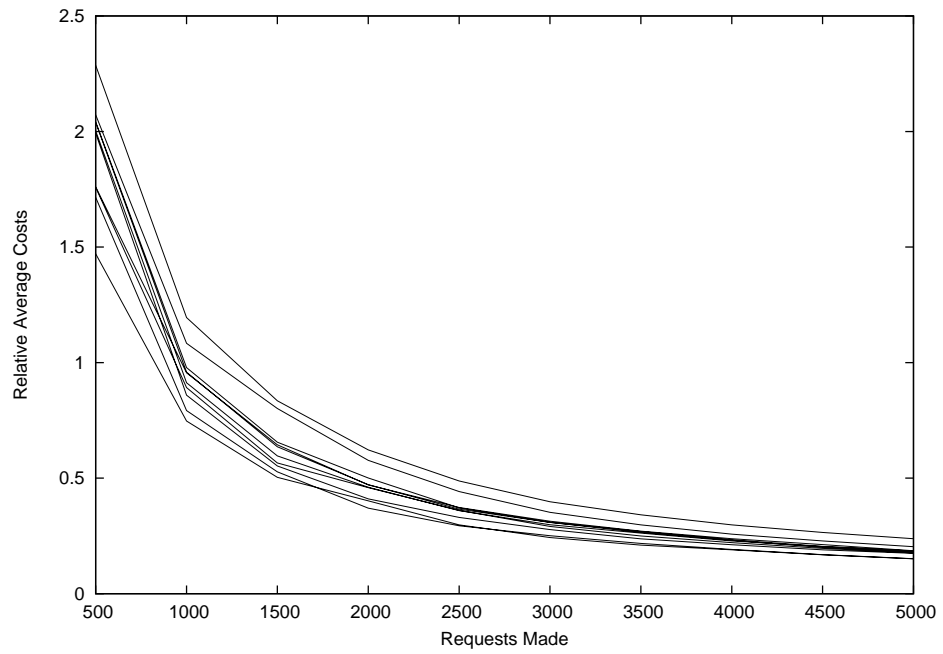


Figure 1: The relative average cost for public transportation by bus on different networks with uniform requests.

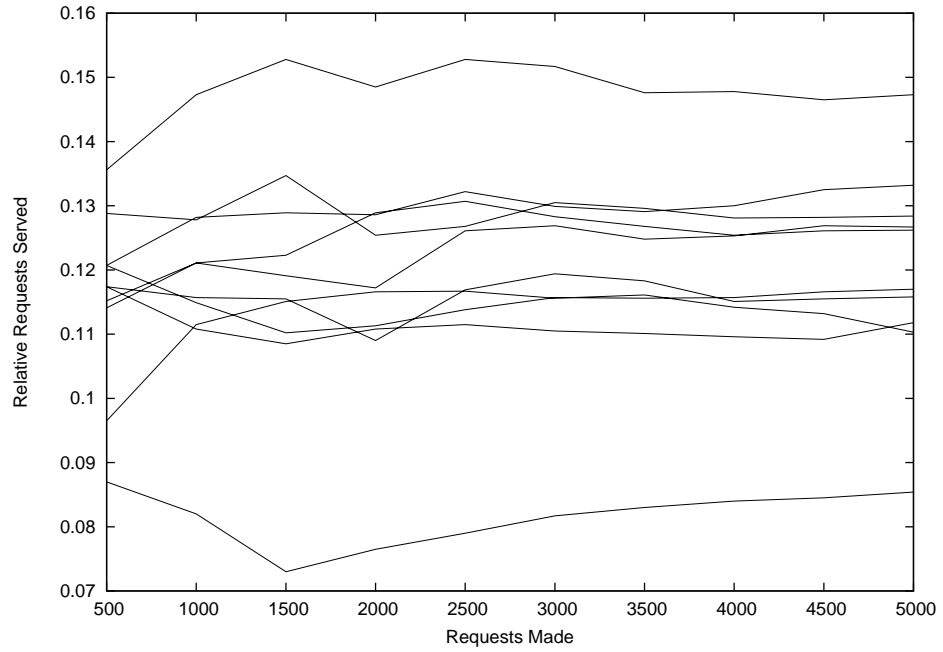


Figure 2: The relative average number of requests for public transportation by bus on different networks with uniform requests.

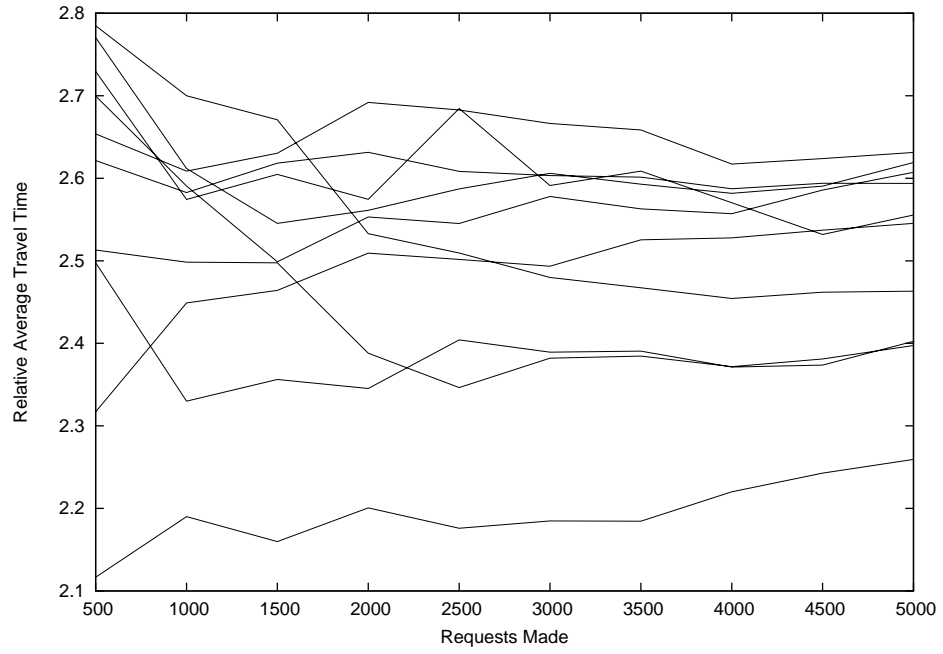


Figure 3: The relative average travel time for public transportation by bus on different networks with uniform requests.

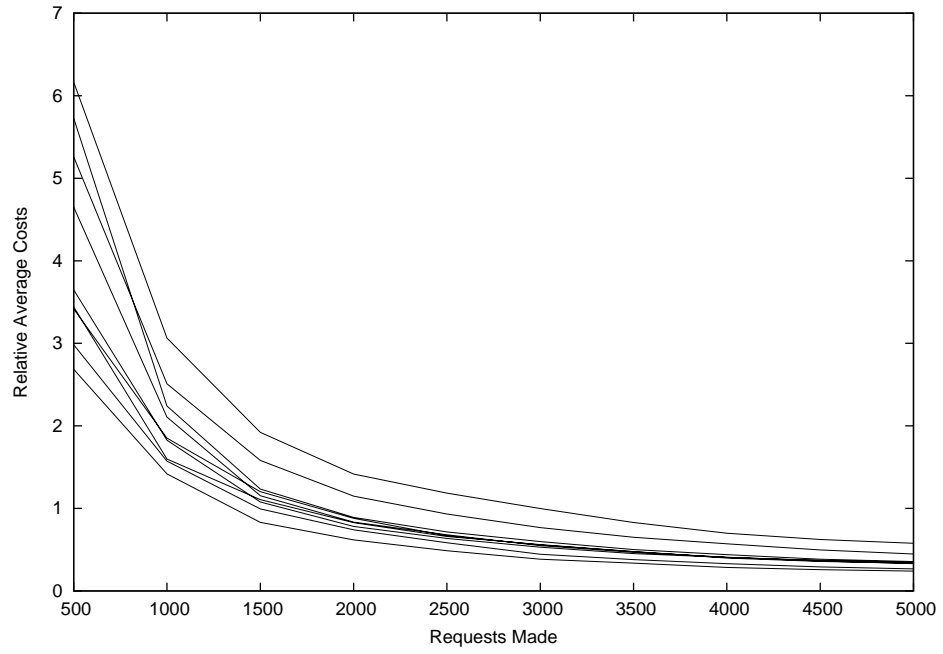


Figure 4: The relative average cost for public transportation by bus on different networks with non-uniform requests.

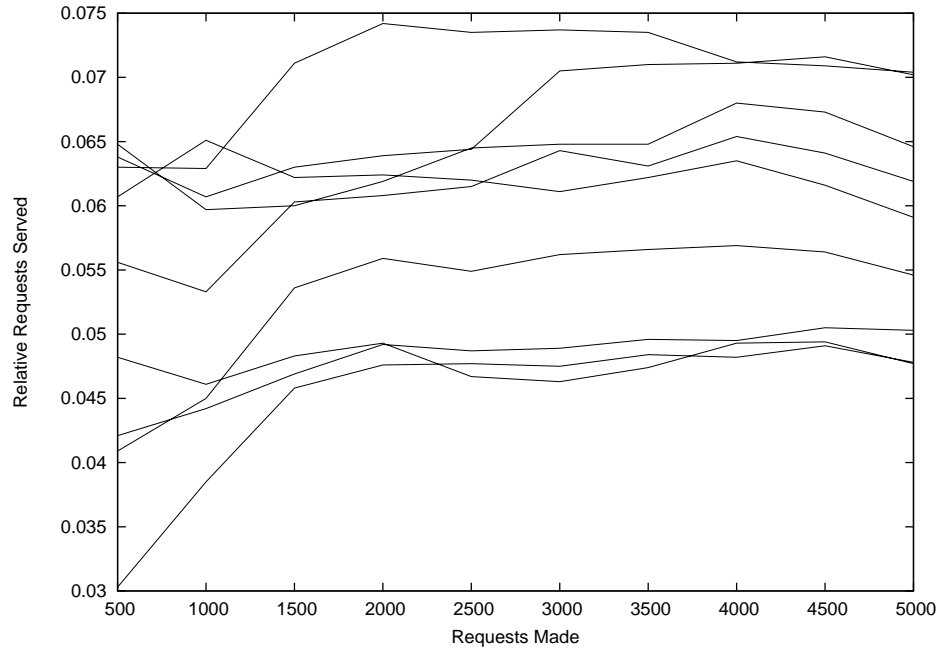


Figure 5: The relative average number of requests for public transportation by bus on different networks with non-uniform requests.

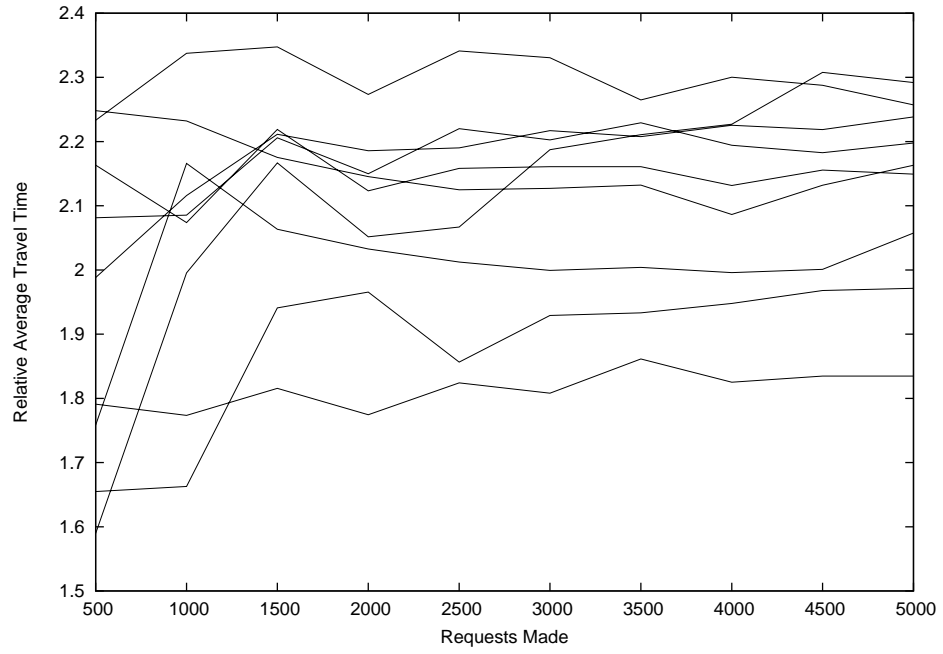


Figure 6: The relative average travel time for public transportation by bus on different networks with non-uniform requests.

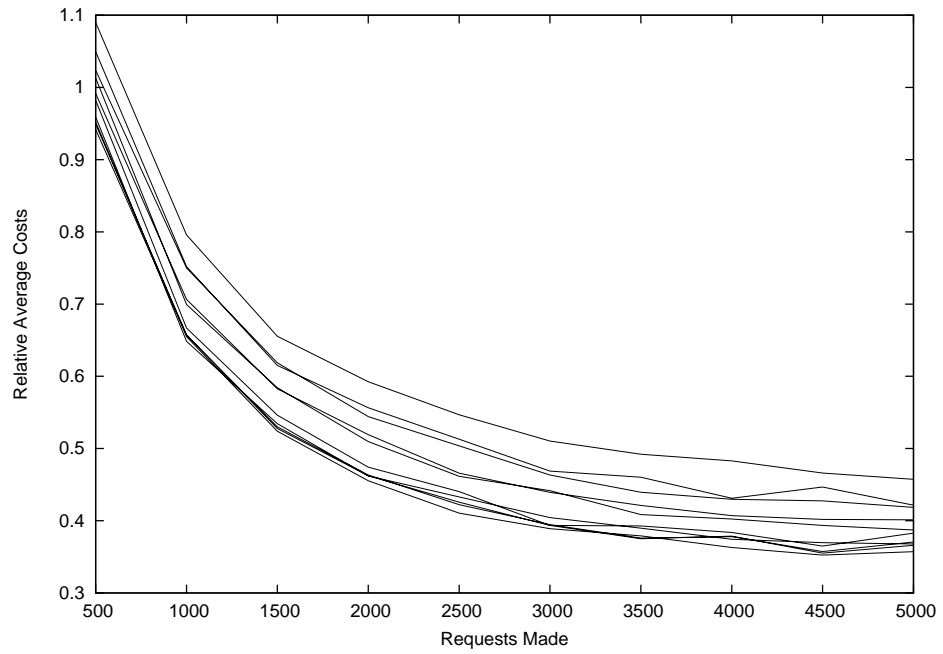


Figure 7: The relative average cost for the on-demand public transportation service on different networks with uniform requests.

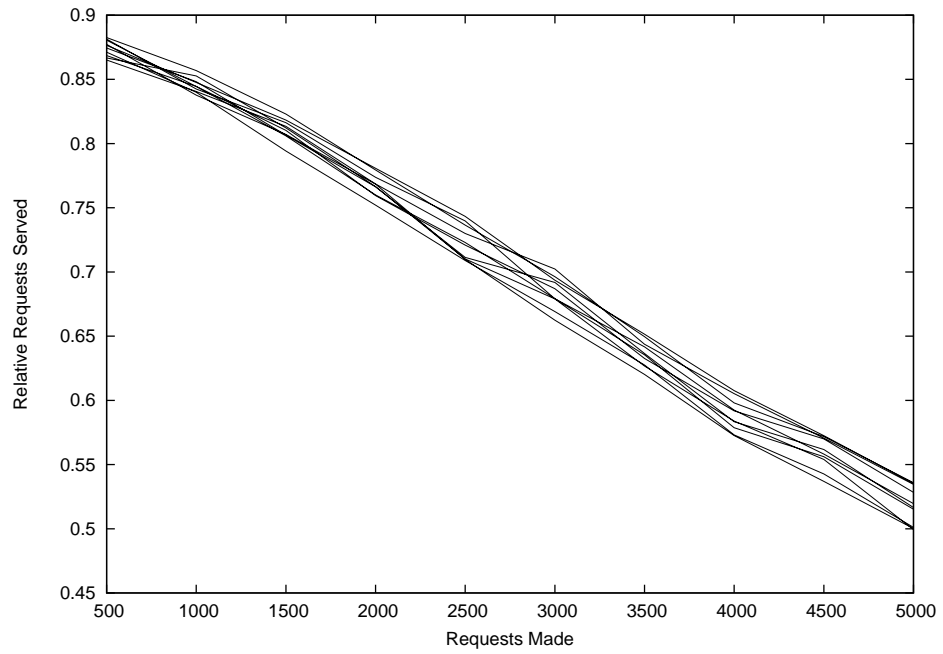


Figure 8: The relative average number of requests for the on-demand public transportation service on different networks with uniform requests.

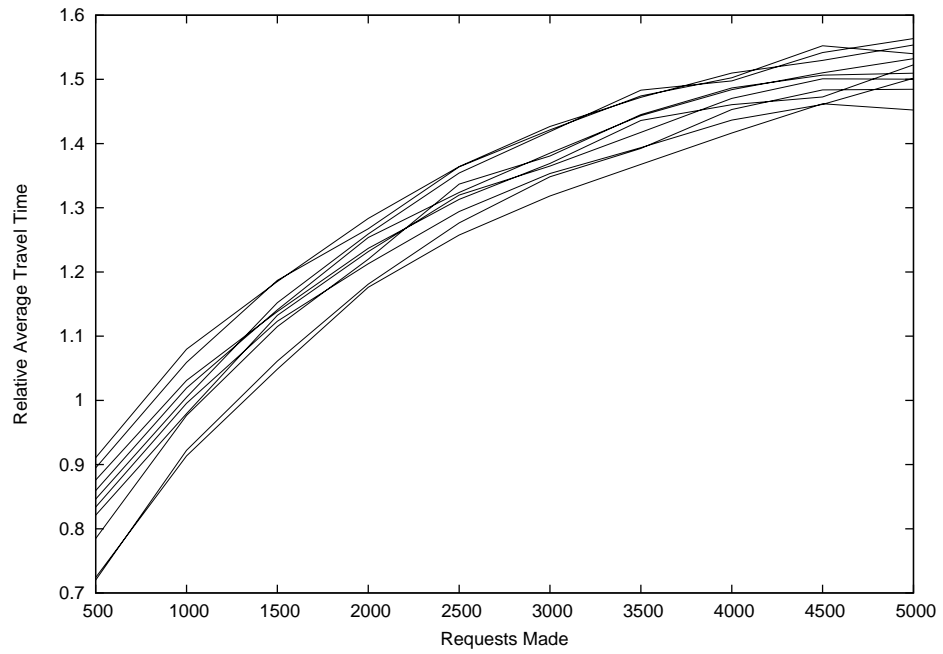


Figure 9: The relative average travel time for the on-demand public transportation service on different networks with uniform requests.

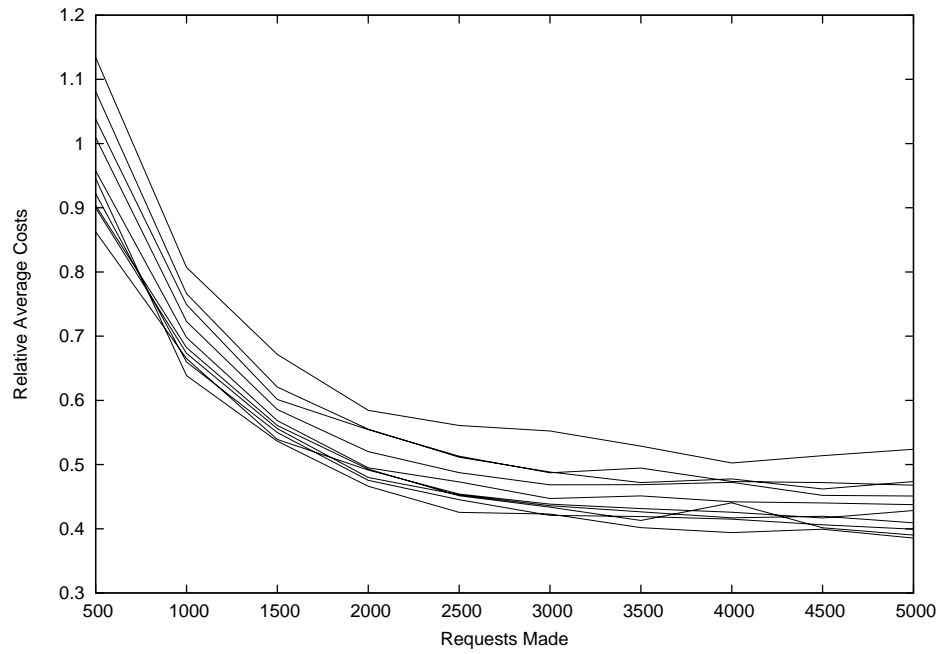


Figure 10: The relative average cost for the on-demand public transportation service on different networks with non-uniform requests.

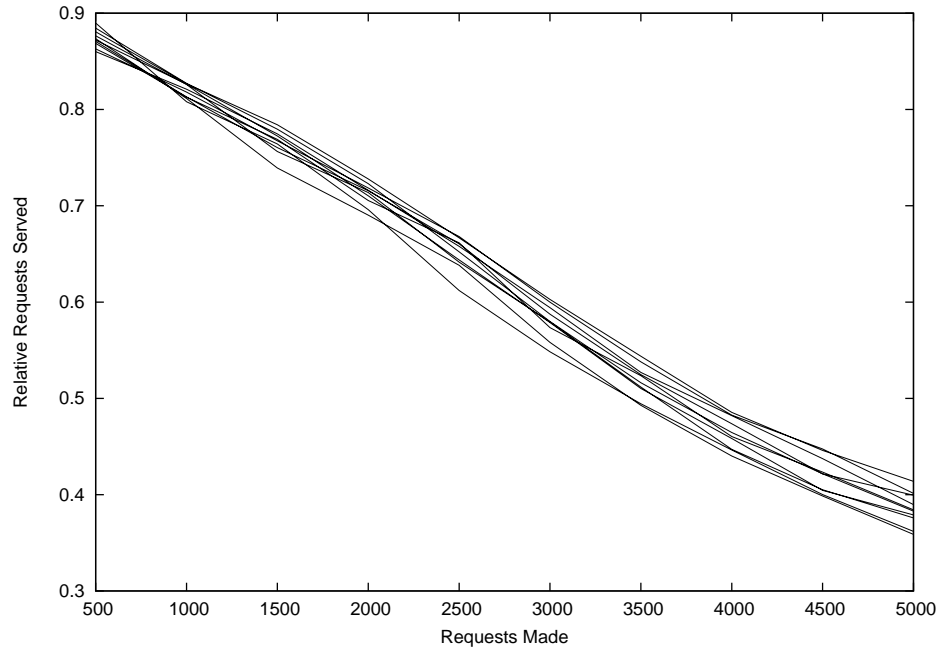


Figure 11: The relative average number of requests for the on-demand public transportation service on different networks with non-uniform requests.

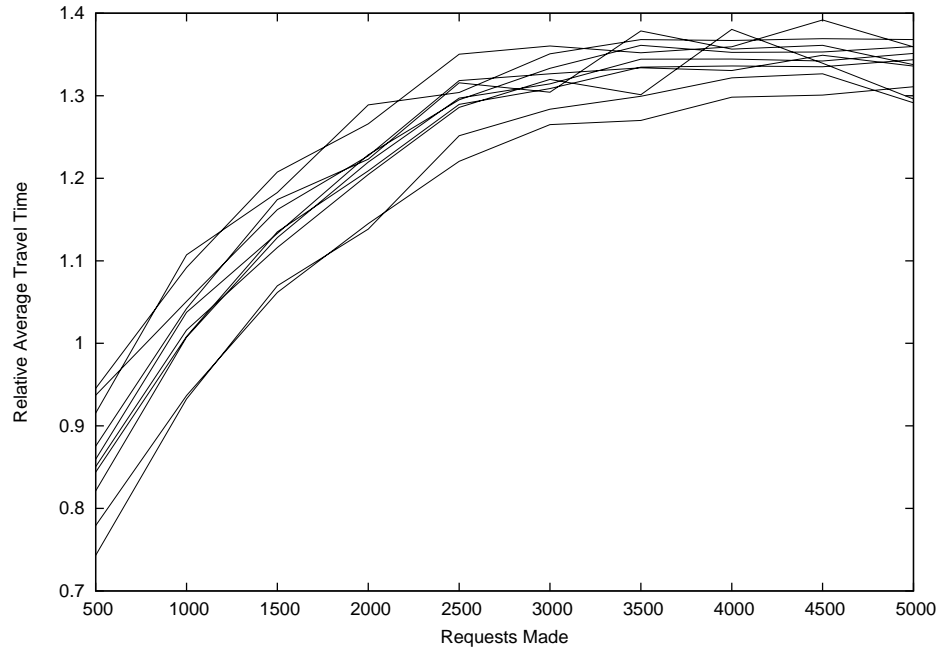


Figure 12: The relative average travel time for the on-demand public transportation service on different networks with non-uniform requests.

Separate comparison

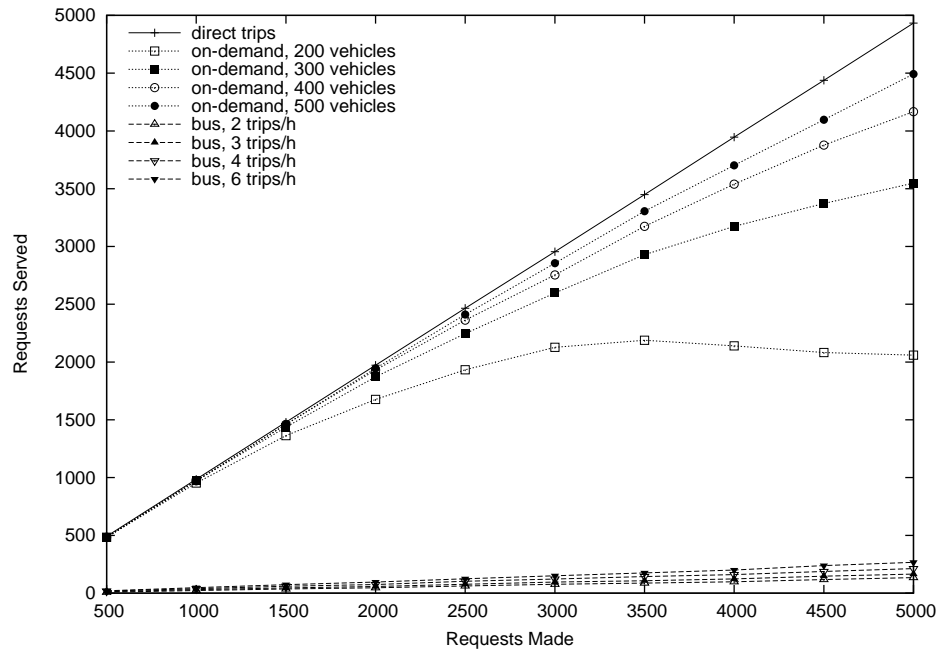


Figure 13: The number of requests served for uniform requests.

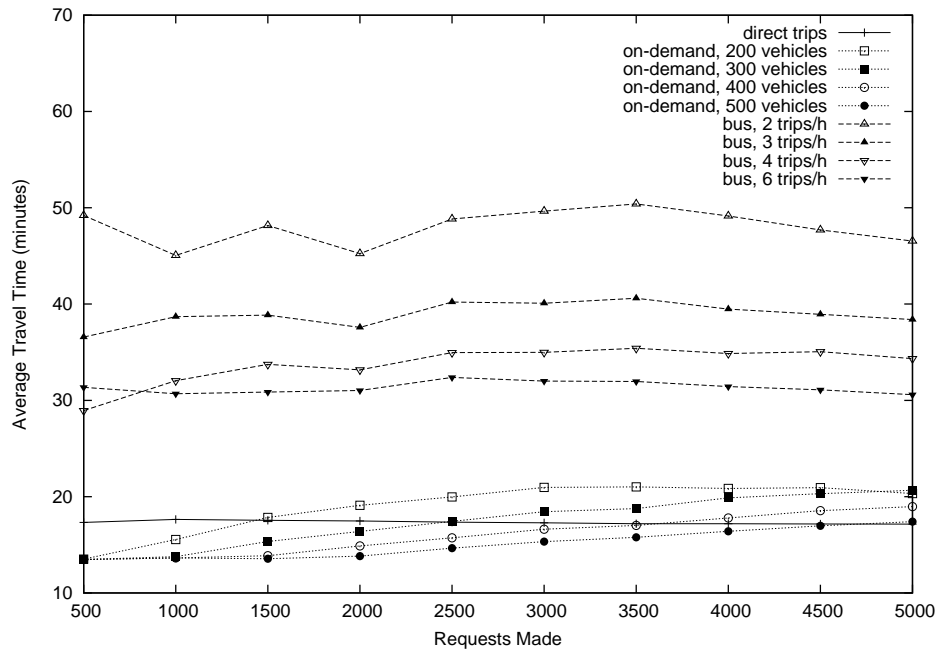


Figure 14: The average travel time per request for uniform requests.

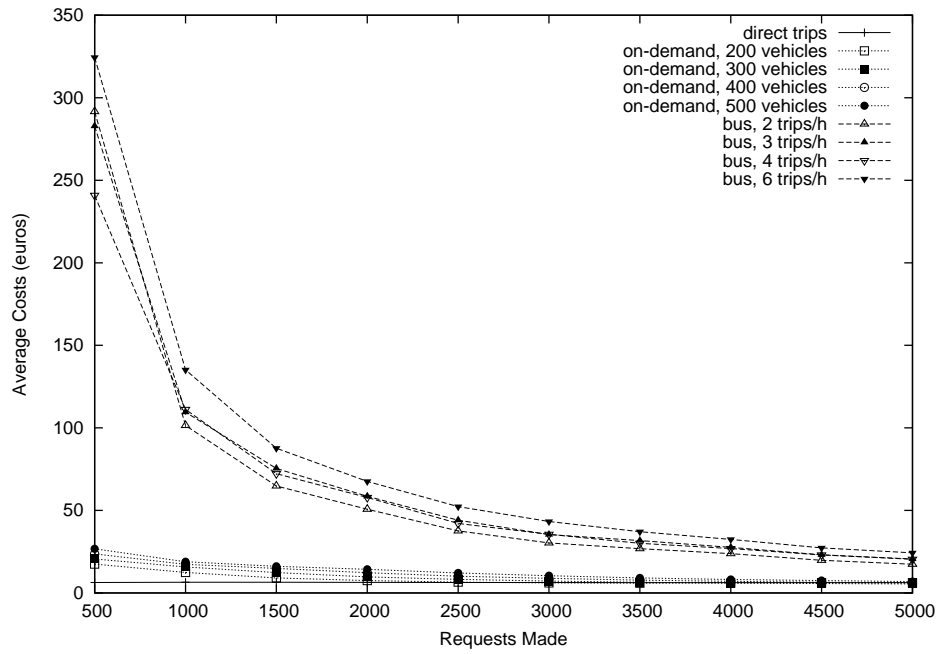


Figure 15: The average costs per request for uniform requests.

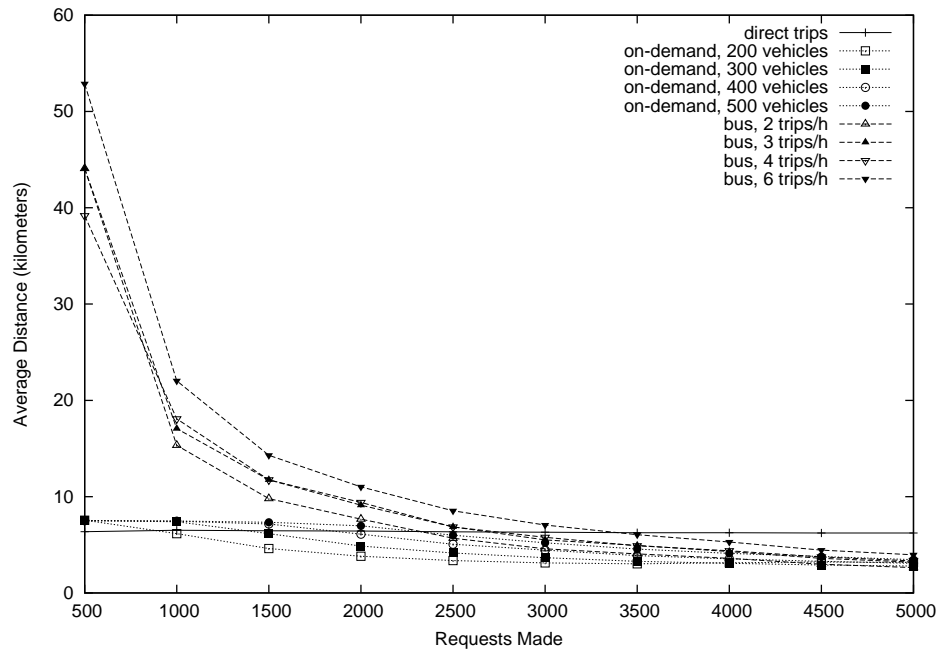


Figure 16: The average distance traveled per request for uniform requests.

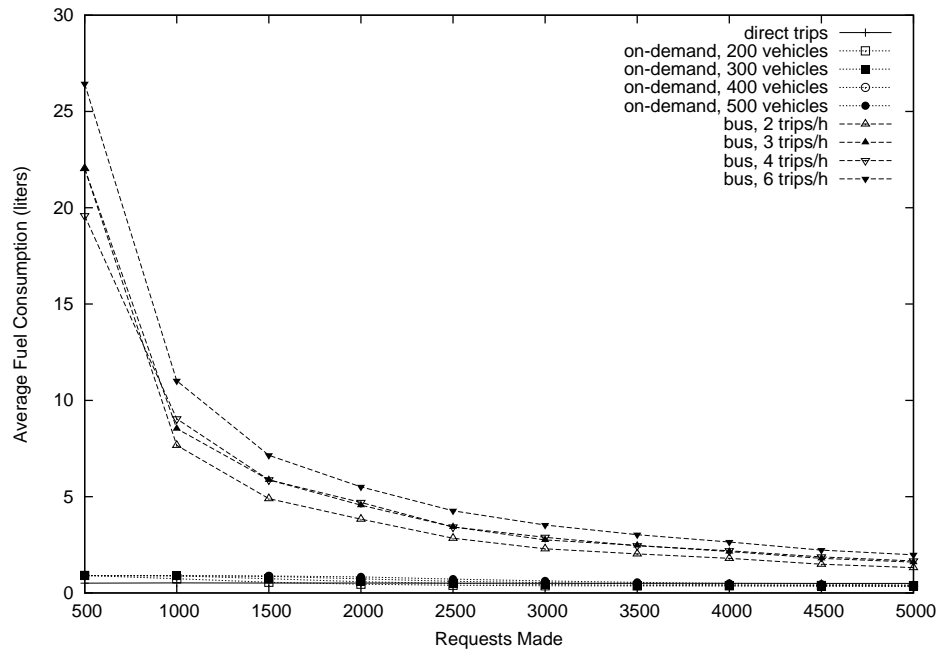


Figure 17: The average fuel consumption per request for uniform requests.

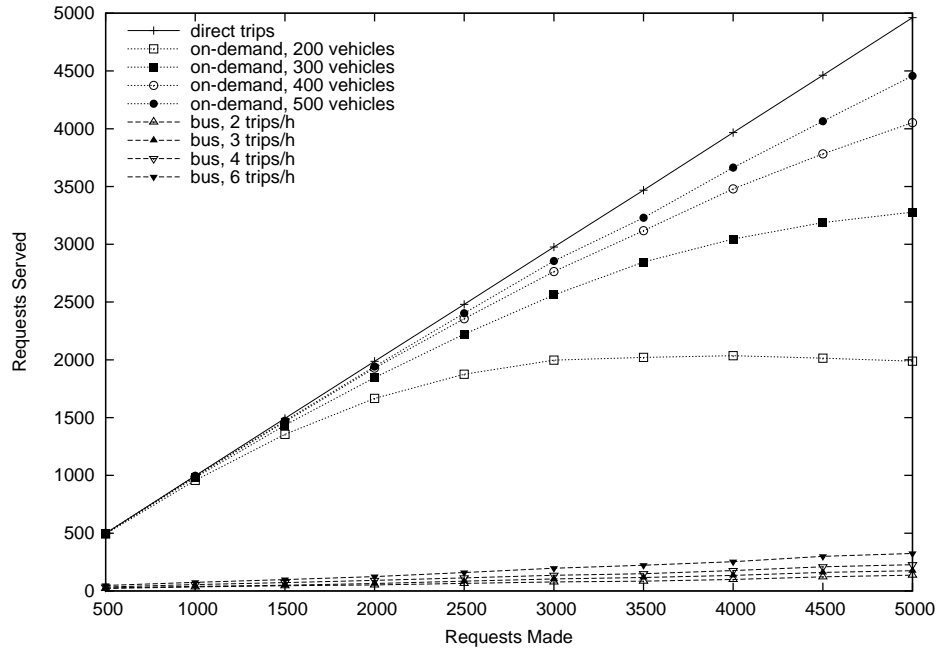


Figure 18: The number of requests served for non-uniform requests.

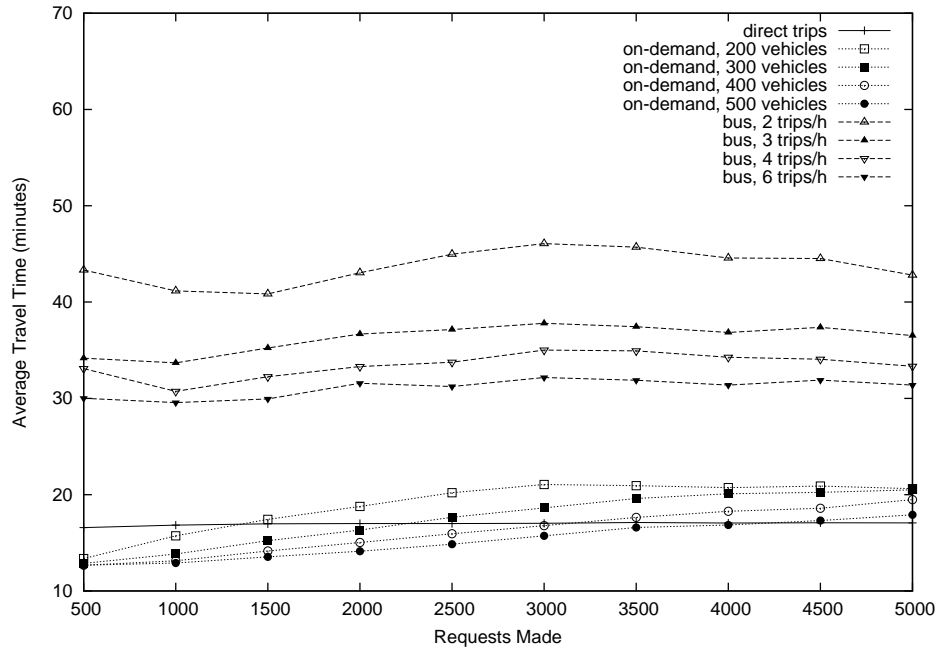


Figure 19: The average travel time per request for non-uniform requests.

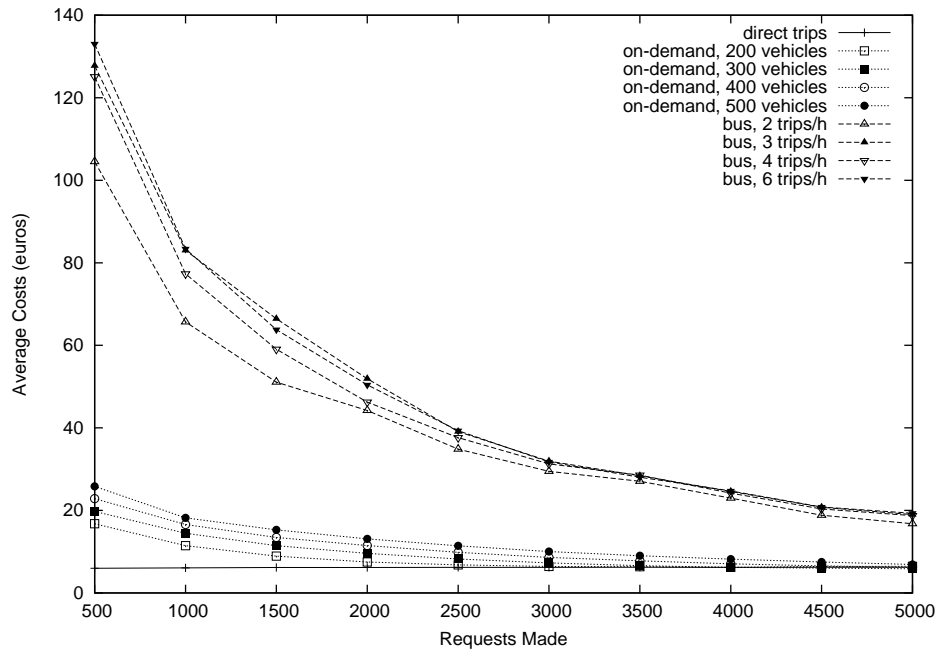


Figure 20: The average costs per request for non-uniform requests.

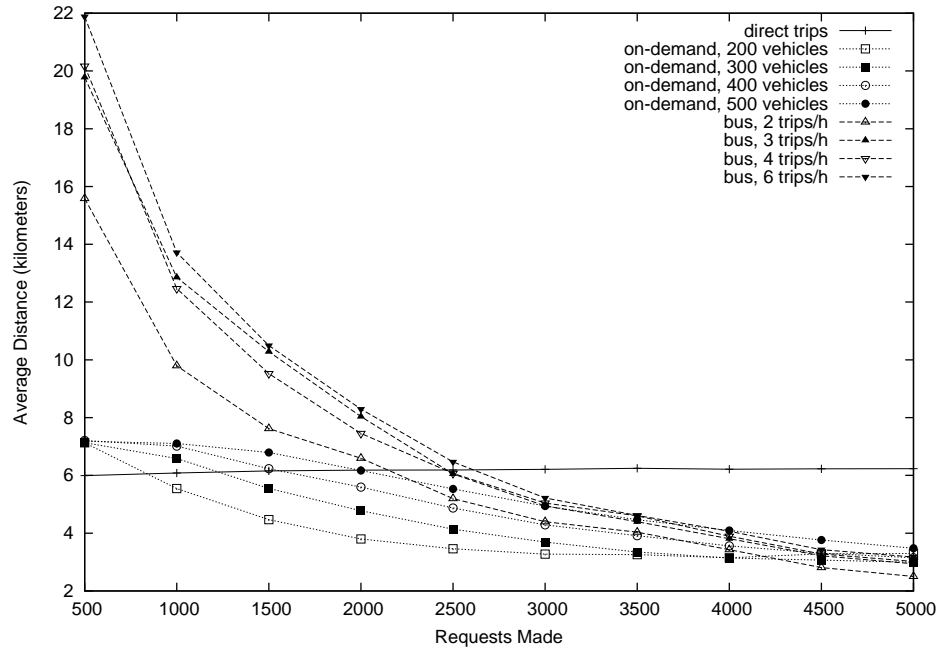


Figure 21: The average distance traveled per request for non-uniform requests.

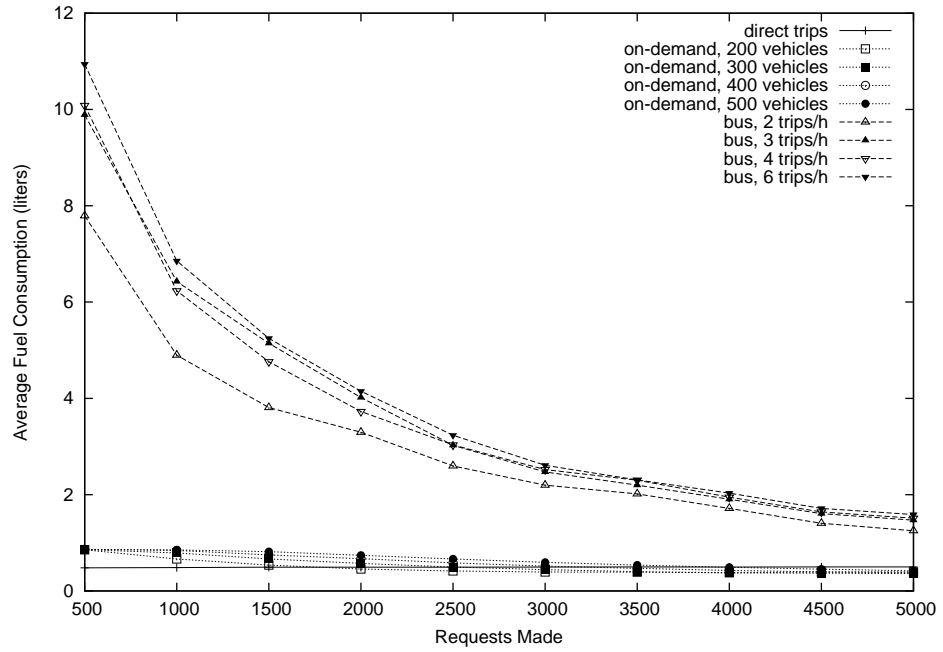


Figure 22: The average fuel consumption per request for non-uniform requests.

Combined comparison

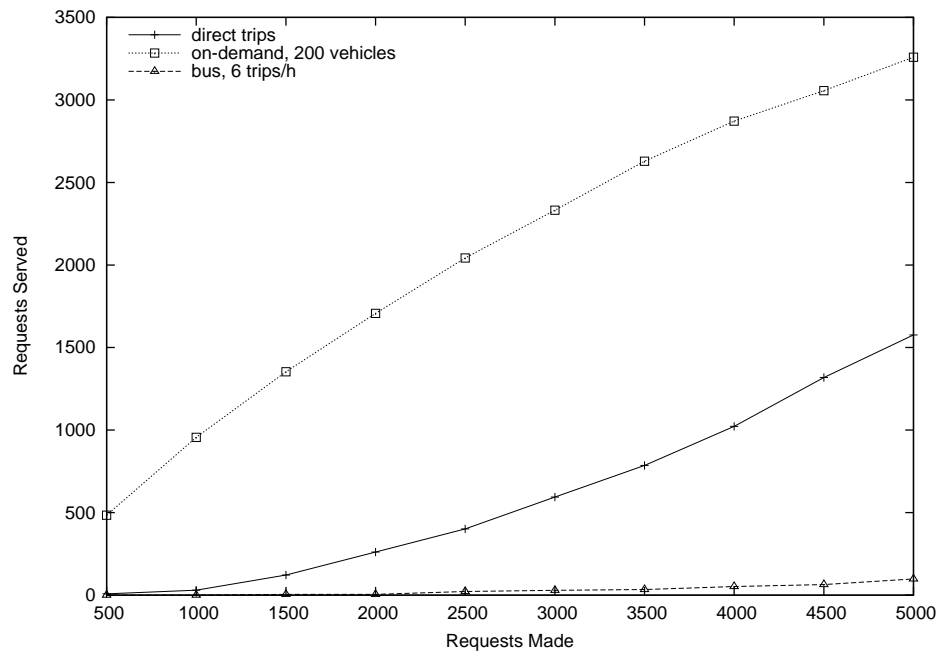


Figure 23: The number of requests served for uniform requests (200 vehicles for the on-demand service).

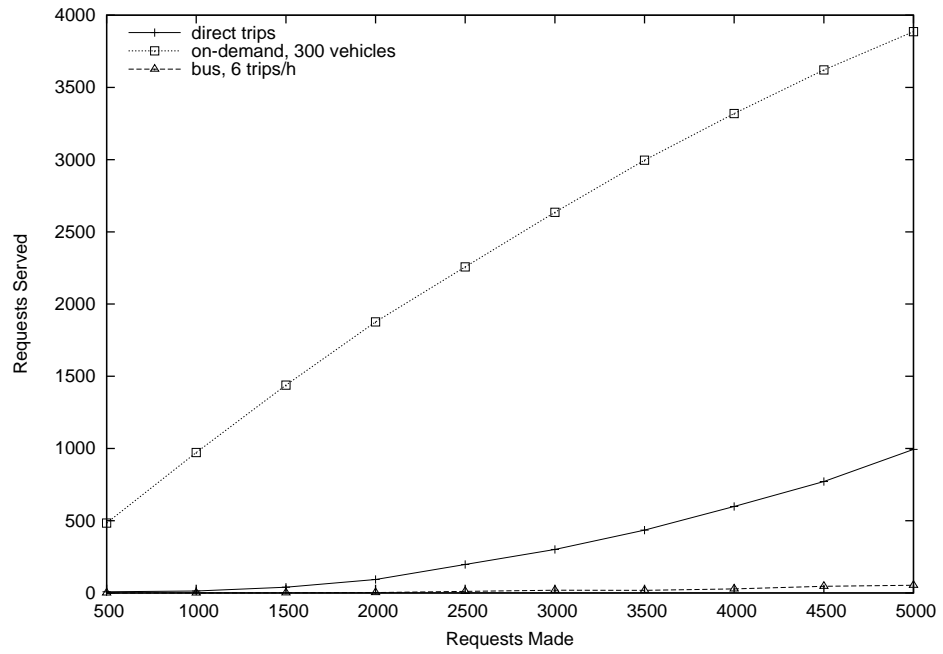


Figure 24: The number of requests served for uniform requests (300 vehicles for the on-demand service).

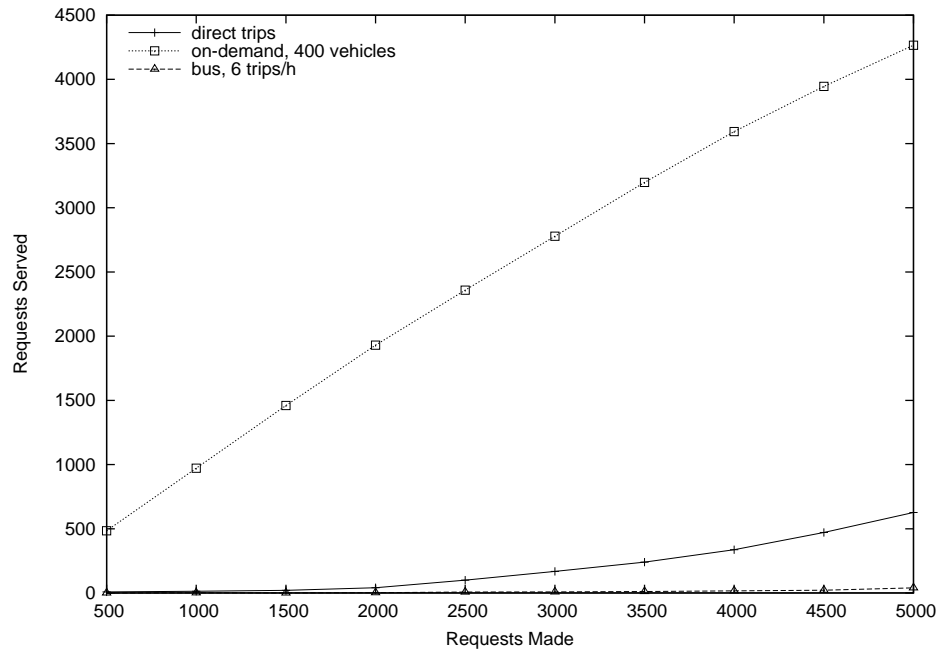


Figure 25: The number of requests served for uniform requests (400 vehicles for the on-demand service).

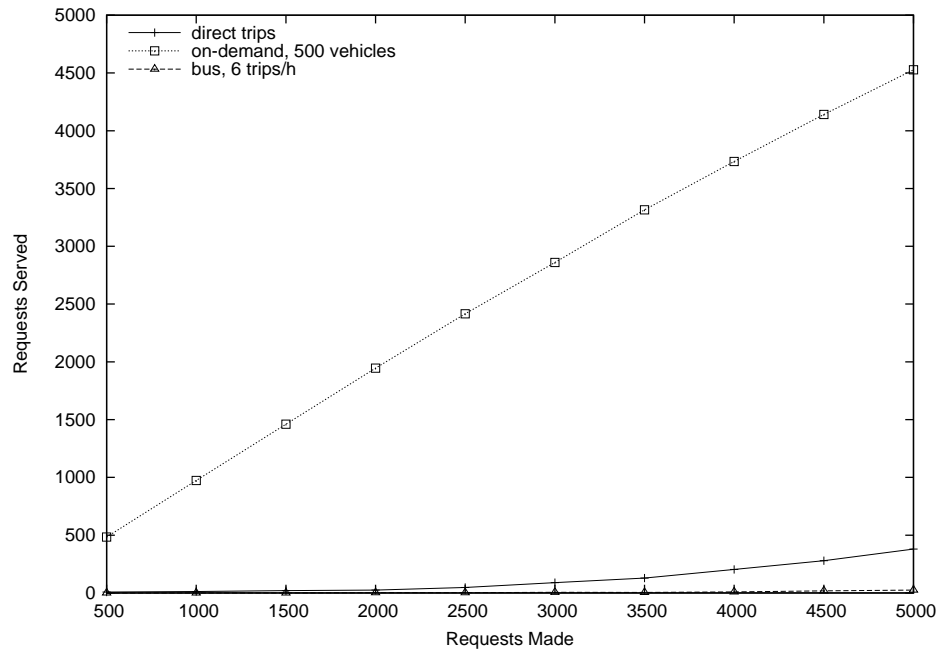


Figure 26: The number of requests served for uniform requests (500 vehicles for the on-demand service).

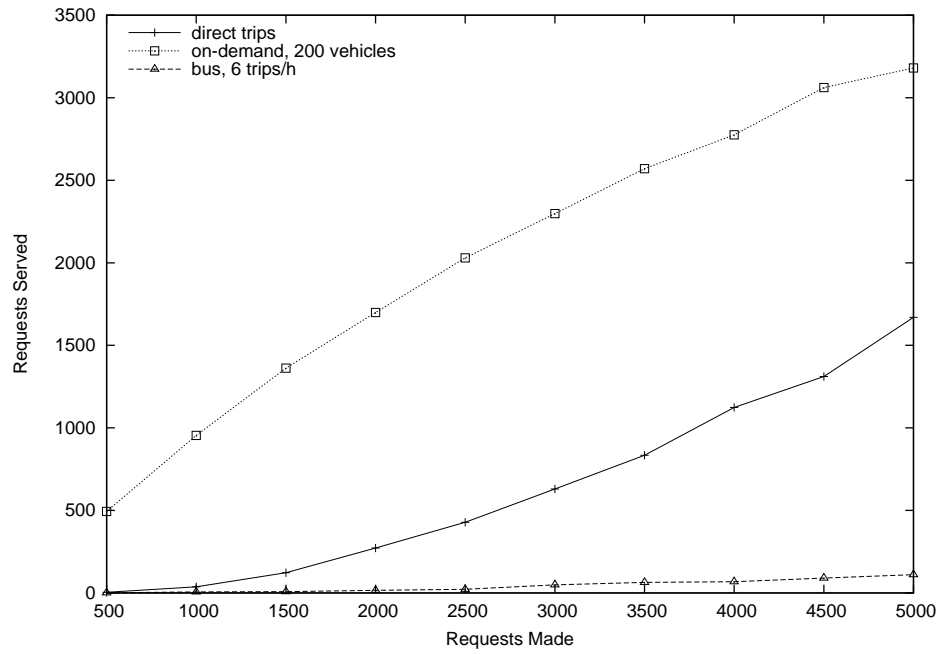


Figure 27: The number of requests served for non-uniform requests (200 vehicles for the on-demand service).

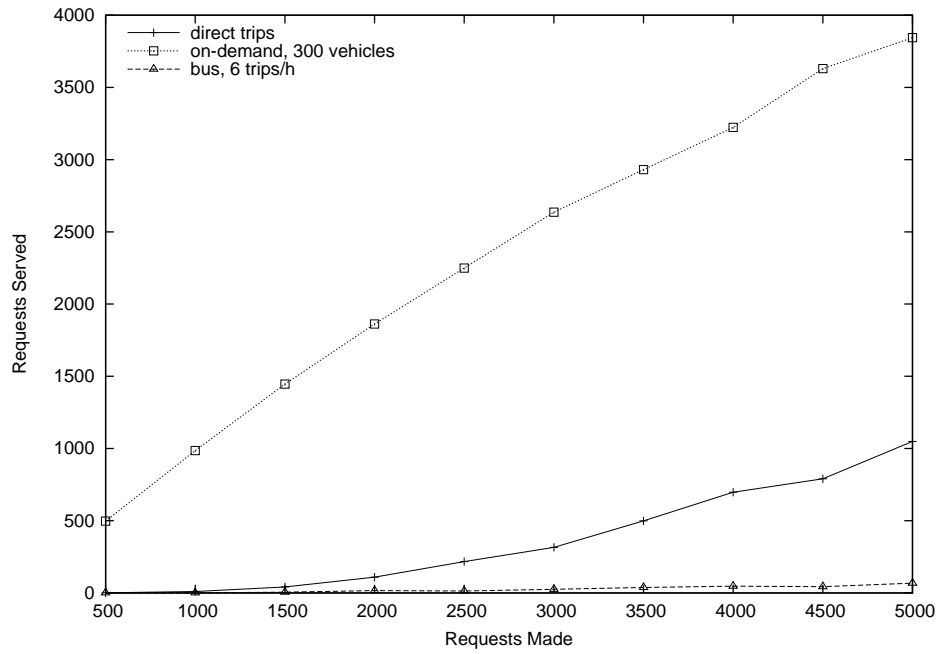


Figure 28: The number of requests served for non-uniform requests (300 vehicles for the on-demand service).

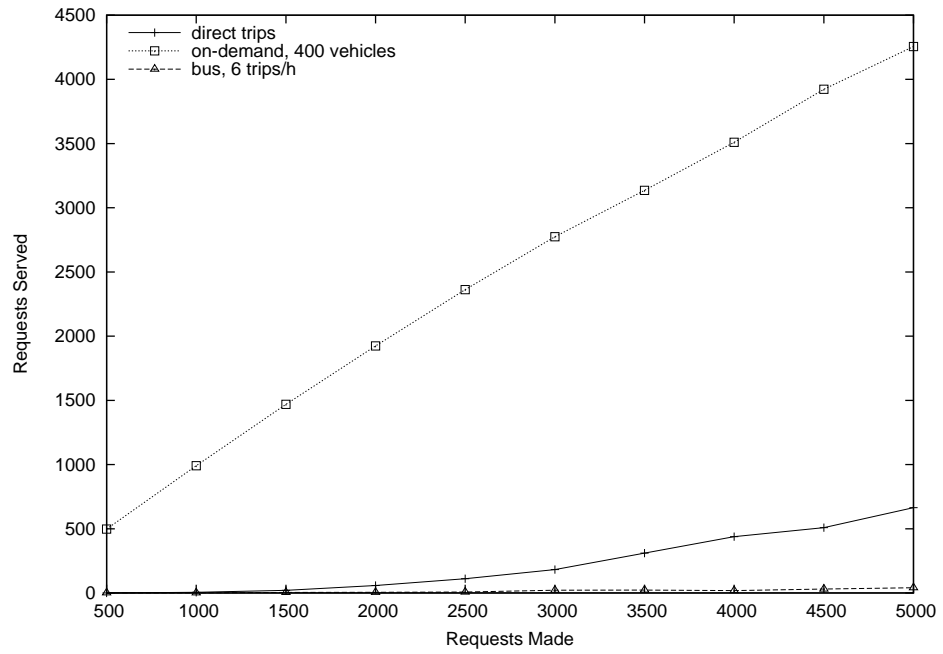


Figure 29: The number of requests served for non-uniform requests (400 vehicles for the on-demand service).

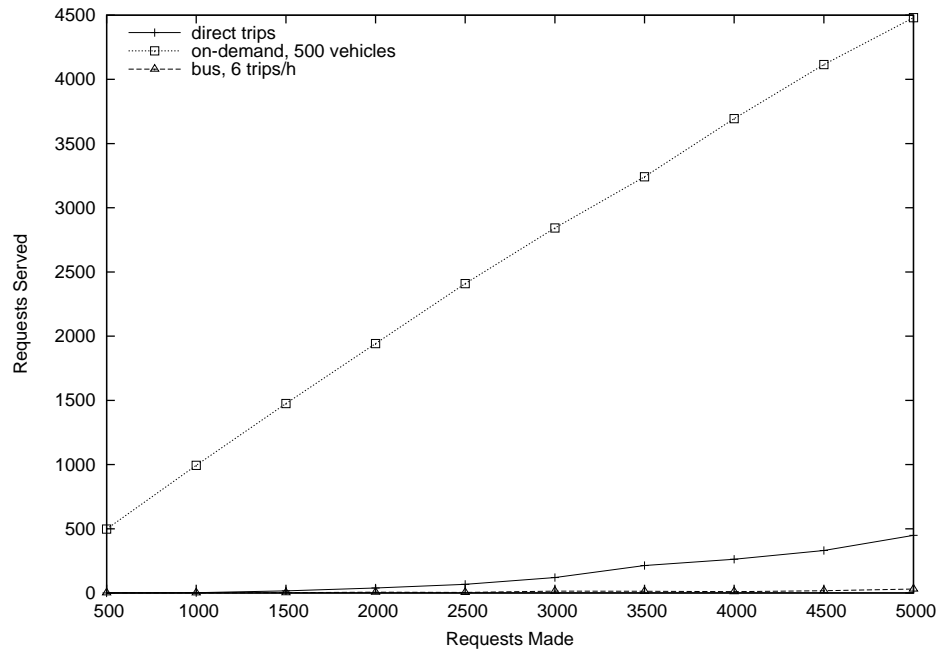


Figure 30: The number of requests served for non-uniform requests (500 vehicles for the on-demand service).

Scalability

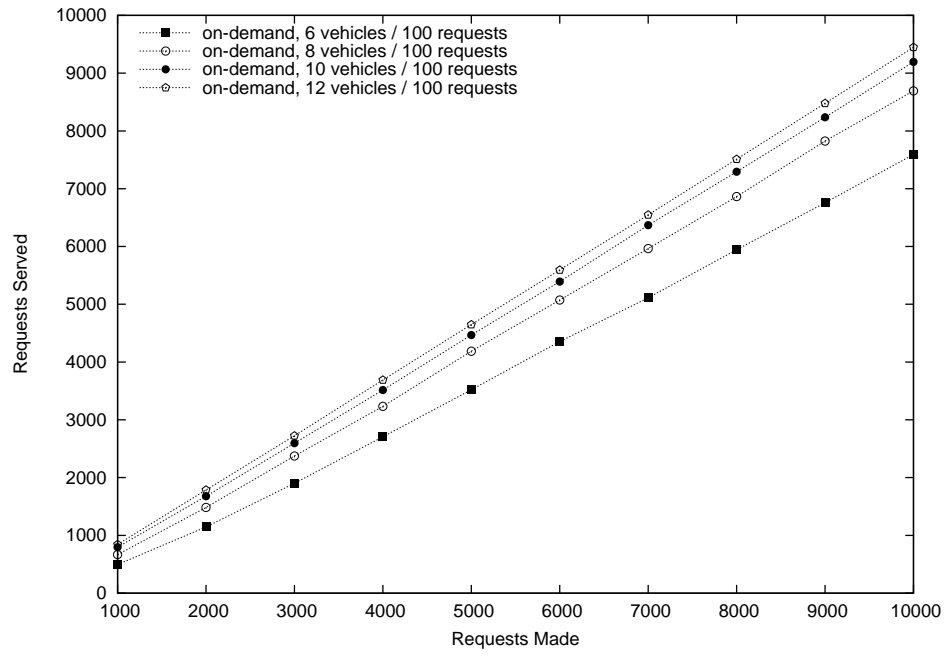


Figure 31: The number of requests served for uniform requests.

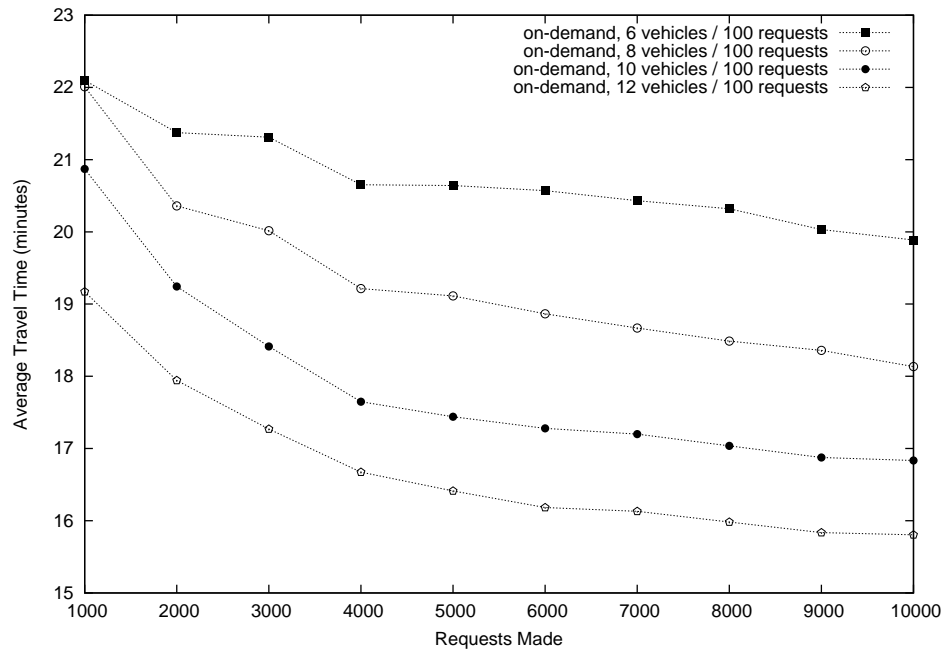


Figure 32: The average travel time per request for uniform requests.

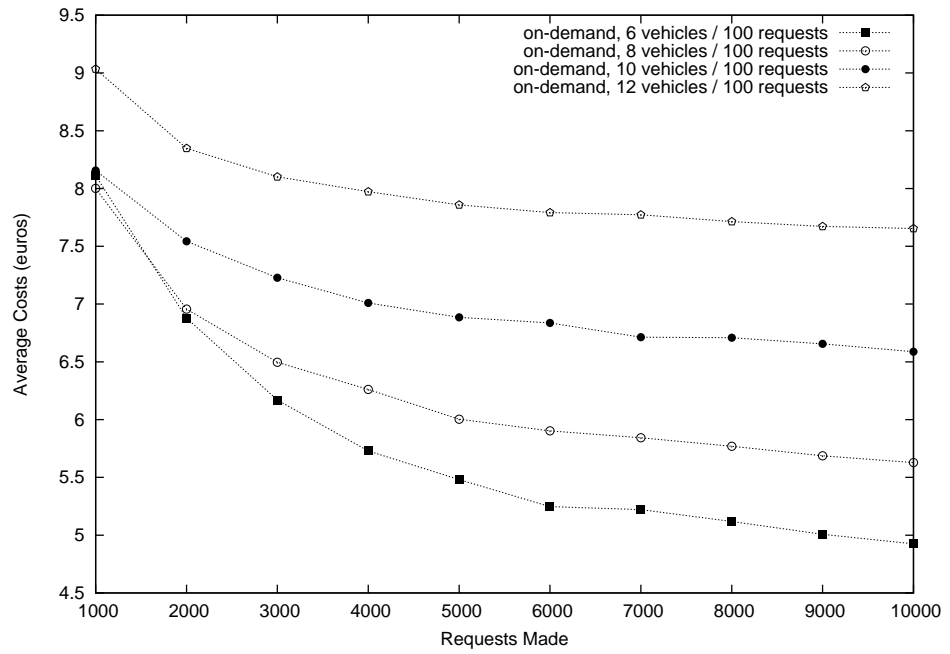


Figure 33: The average costs per request for uniform requests.

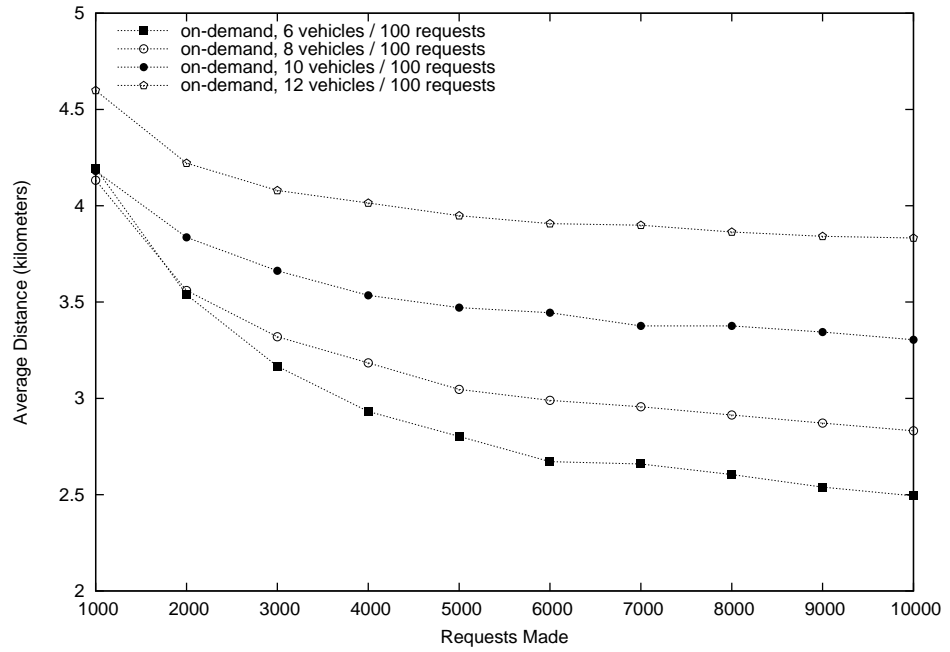


Figure 34: The average distance per request for uniform requests.

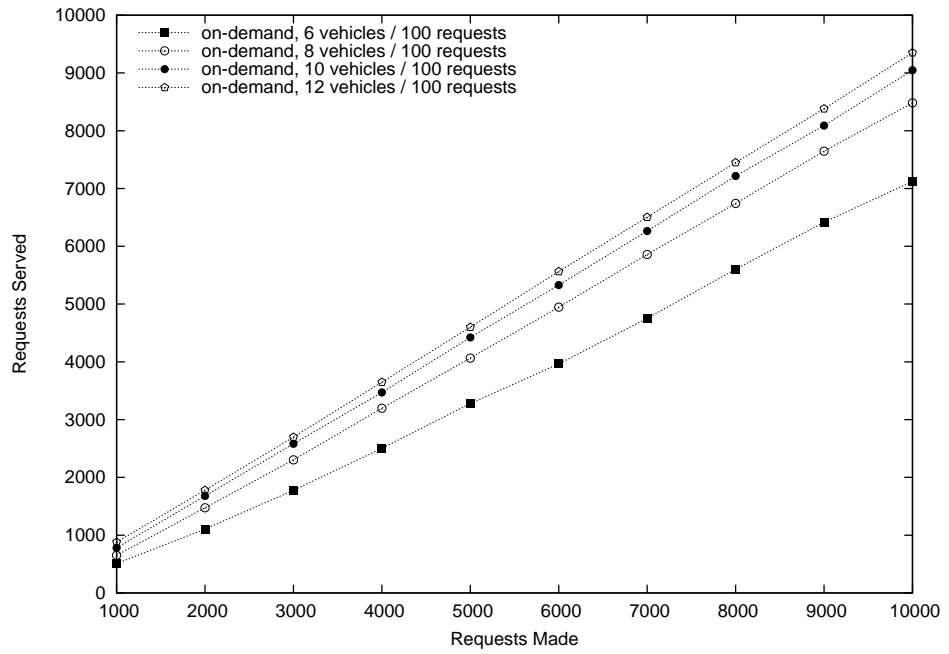


Figure 35: The number of requests served for non-uniform requests.

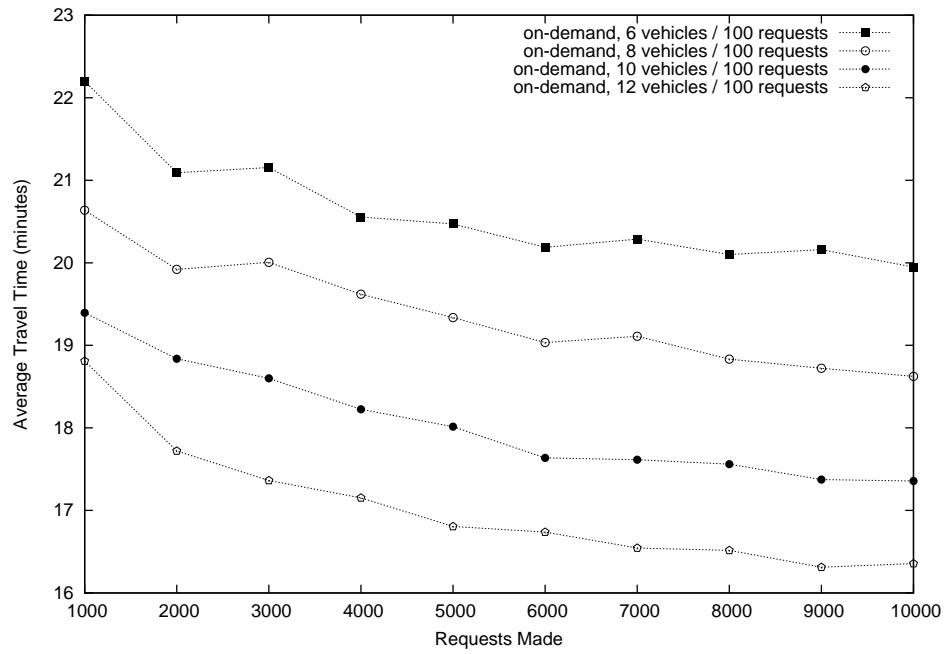


Figure 36: The average travel time per request for non-uniform requests.

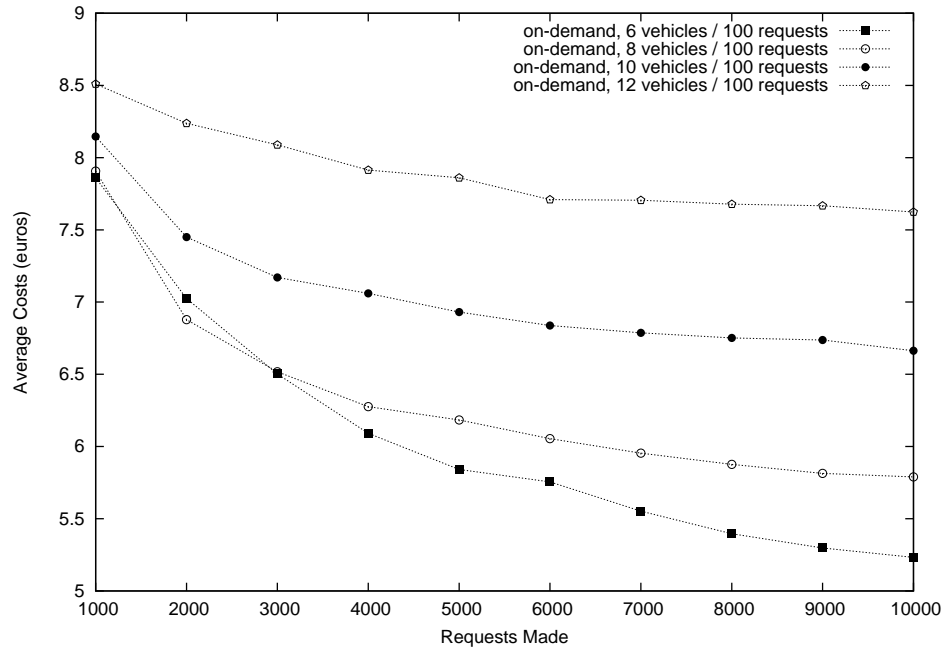


Figure 37: The average costs per request for non-uniform requests.

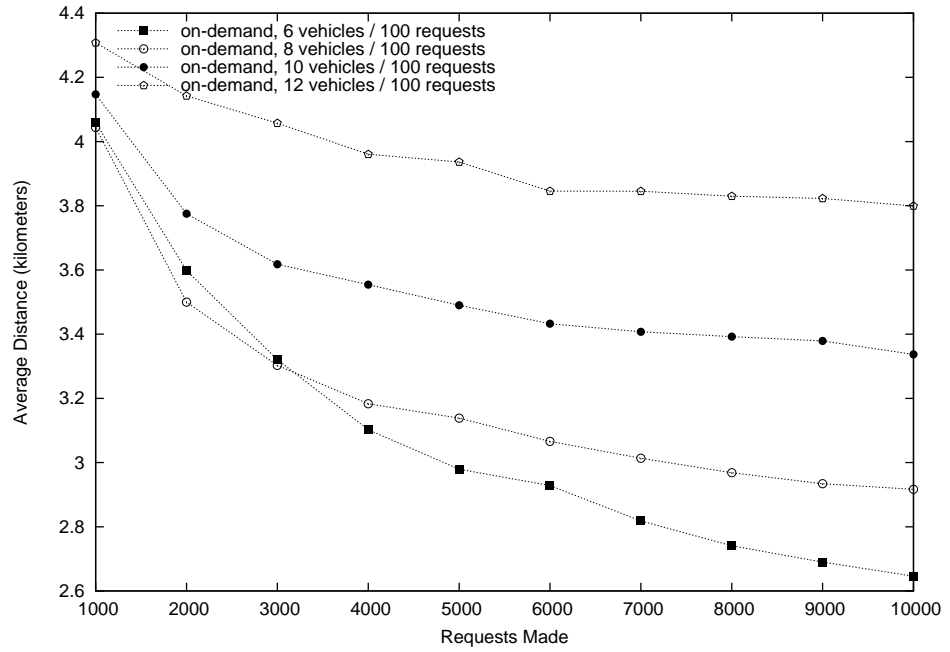


Figure 38: The average distance per request for non-uniform requests.

Responsiveness

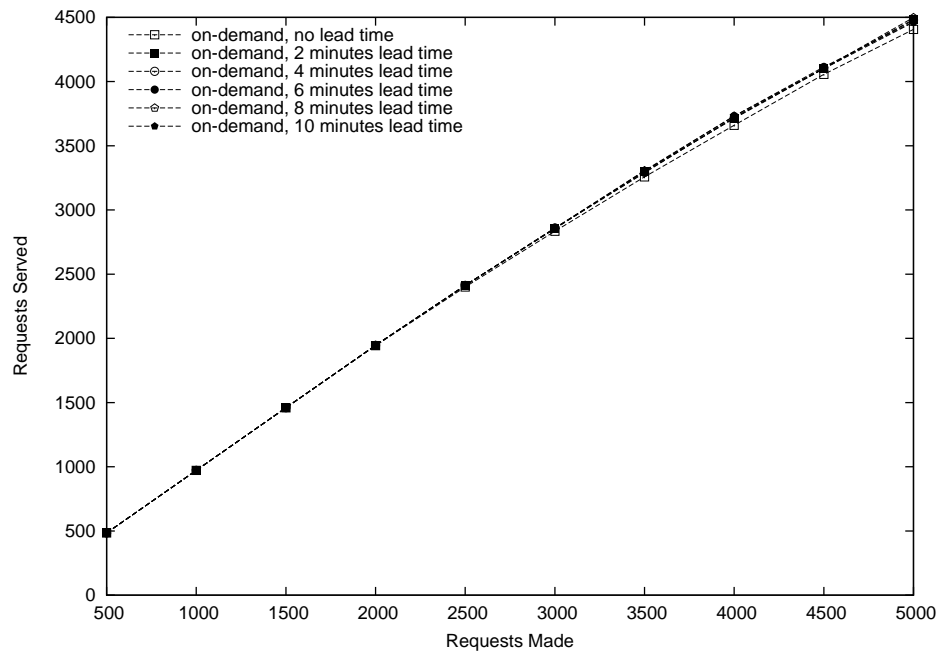


Figure 39: The number of requests served for uniform requests.

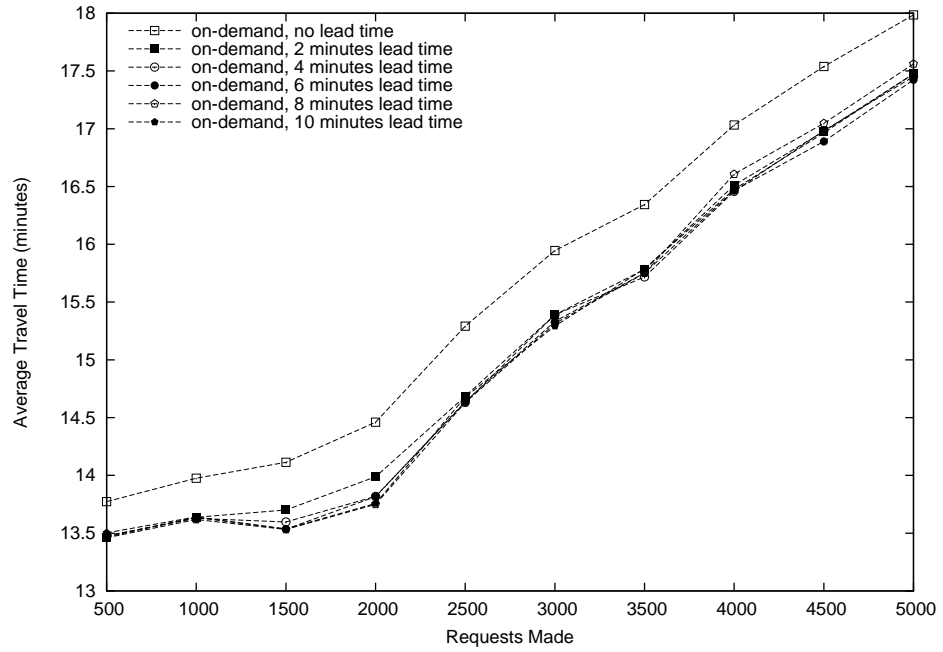


Figure 40: The average travel time per request for uniform requests.

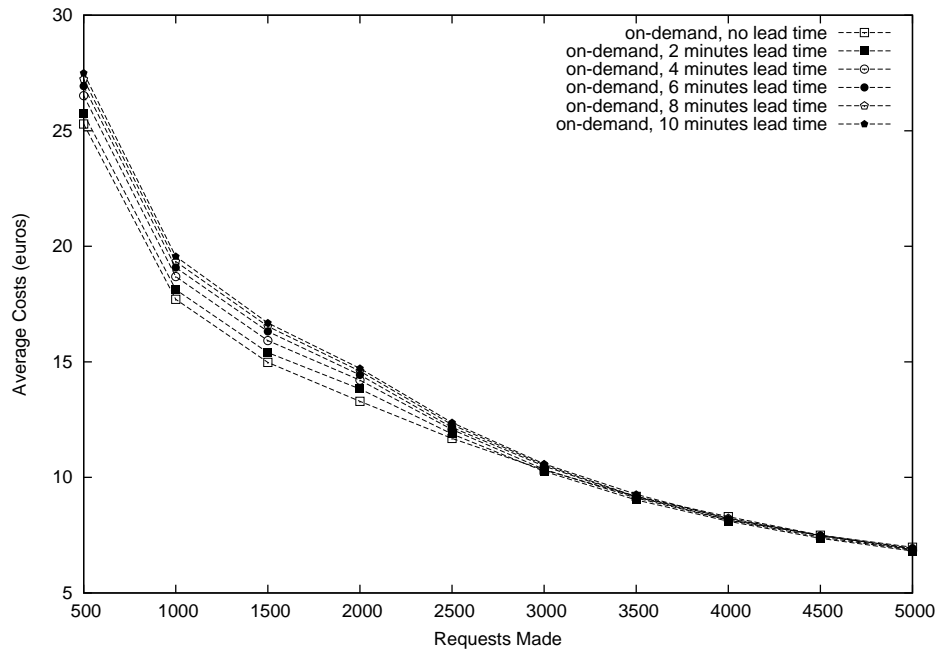


Figure 41: The average costs per request for uniform requests.

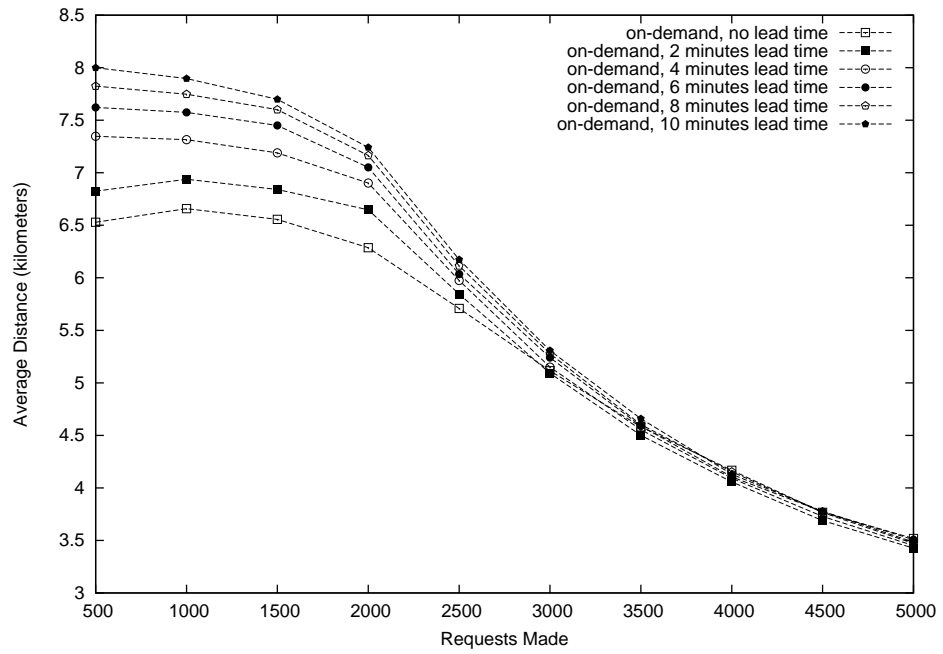


Figure 42: The average distance per request for uniform requests.

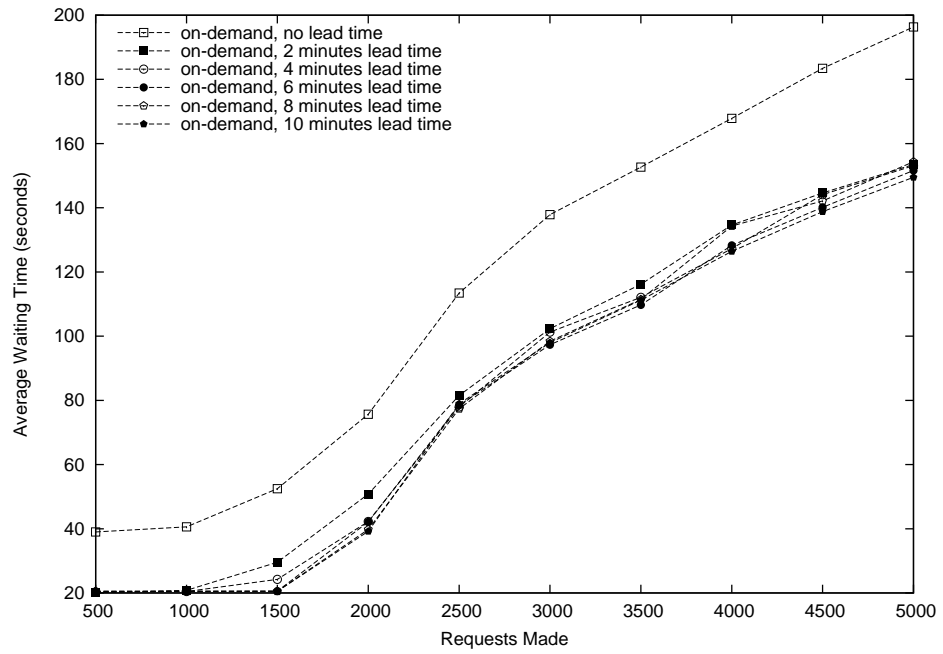


Figure 43: The average waiting time per request for uniform requests.

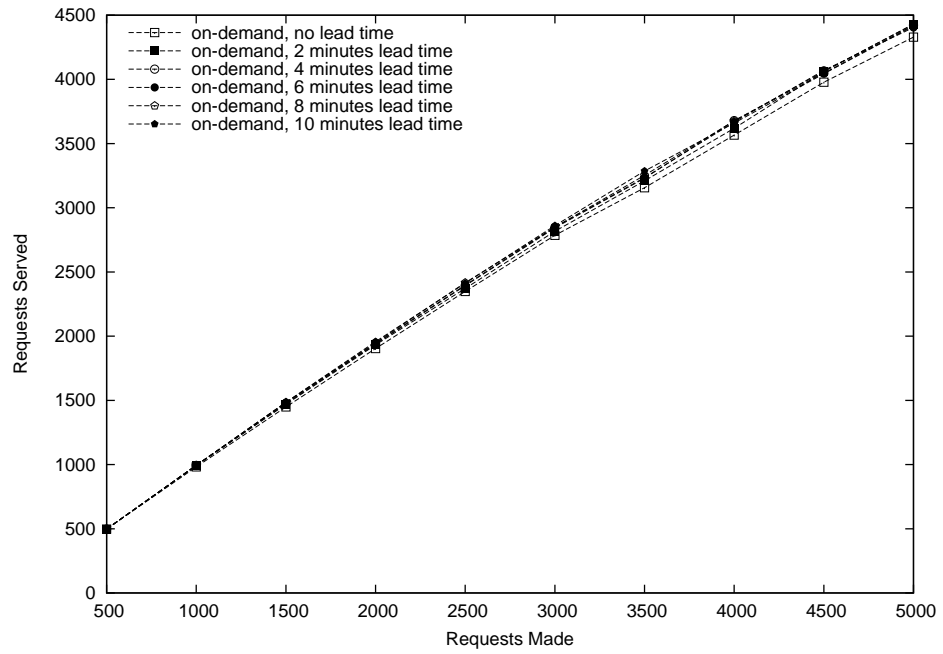


Figure 44: The number of requests served for non-uniform requests.

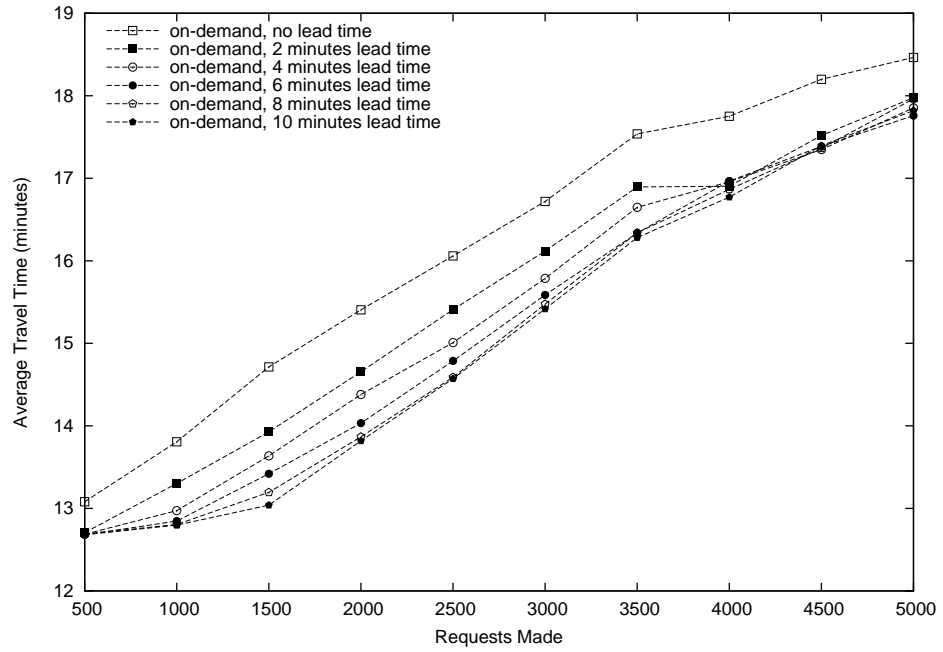


Figure 45: The average travel time per request for non-uniform requests.

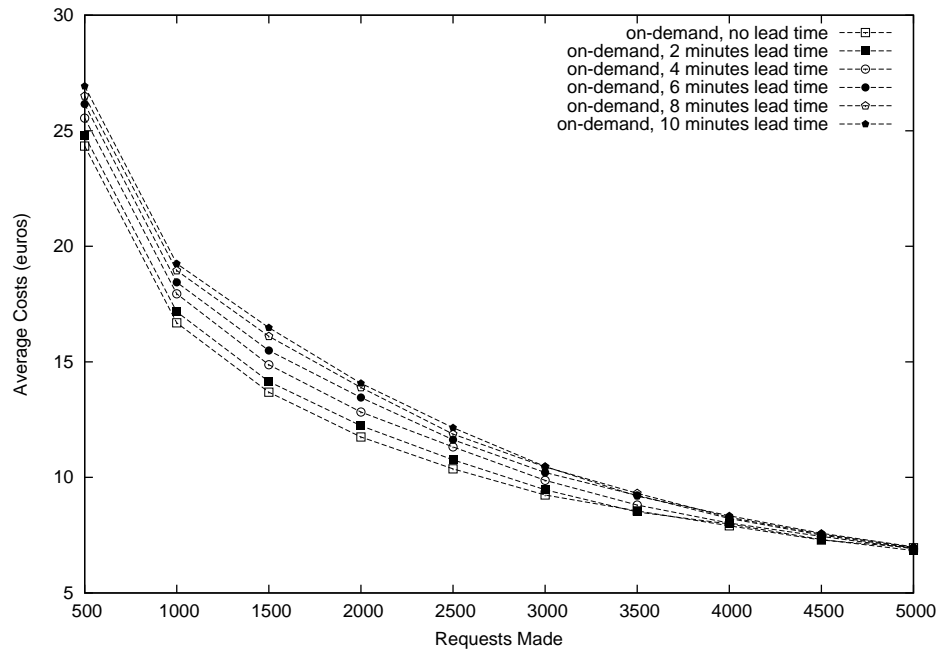


Figure 46: The average costs per request for non-uniform requests.

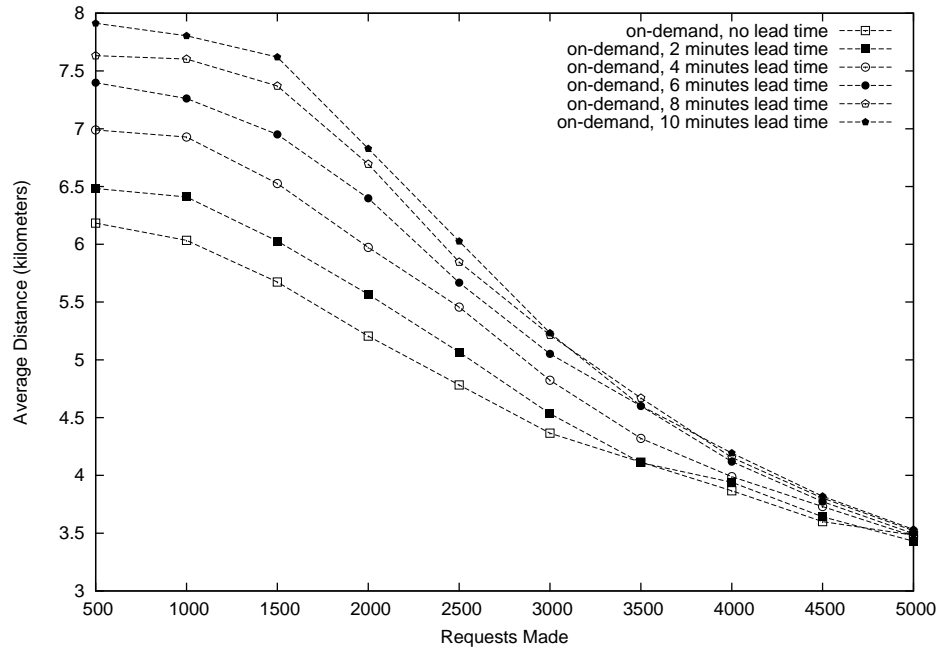


Figure 47: The average distance per request for non-uniform requests.

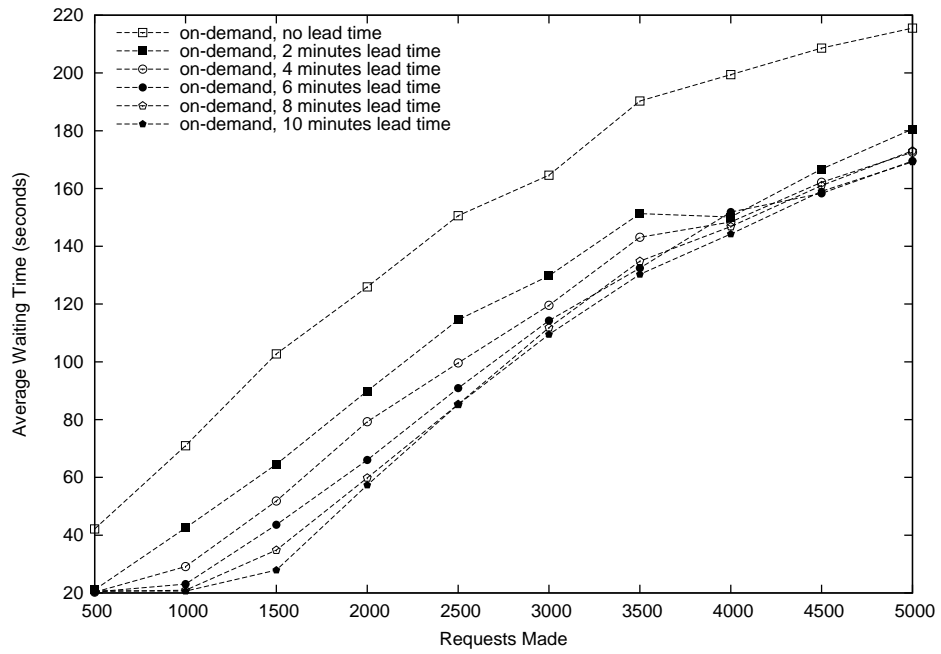


Figure 48: The average waiting time per request for non-uniform requests.