

Chapter 1

Search Engines and Search Strings

1.1 ACM Digital Library

Query:

- (Train OR plane OR bus OR delivery) AND (“path optimization” OR “scheduling optimization” OR “route optimization” OR planning OR multimodal) AND (“bee colony optimization” OR “particle swarm optimization” OR “swarm intelligence” OR “ant colony optimization” OR bco OR pso OR aco) AND (transit OR transportation OR traffic OR vehicle) AND (“artificial intelligence” OR ai OR “machine learning”) AND “multi agent” AND routing

Date of search: 10.11.2014

Results: 19

Notes: Only possible to search in full text.

1.2 ScienceDirect

Query:

- (Train OR plane OR bus OR delivery) AND (“path optimization” OR “scheduling optimization” OR “route optimization” OR planning OR multimodal) AND (“bee colony optimization” OR “particle swarm optimization” OR “swarm intelligence” OR “ant colony optimization” OR bco OR pso OR aco) AND (transit OR transportation OR traffic OR vehicle) AND (“artificial intelligence” OR ai OR “machine learning”) AND “multi agent” AND routing

Date of search: 10.11.2014

Results: 60

Notes: Searched for articles within Computer Science.

1.3 CiteSeer

Query:

- text:((Train OR plane OR bus OR delivery) AND (“path optimization” OR “scheduling optimization” OR “route optimization” OR planning OR multimodal) AND (“bee colony optimization” OR “particle swarm optimization” OR “swarm intelligence” OR “ant colony optimization” OR bco OR pso OR aco) AND (transit OR transportation OR traffic OR vehicle) AND (“artificial intelligence” OR ai OR “machine learning”) AND “multi agent” AND routing)

Date of search: 10.11.2014

Results: 27

Notes: Searched in full-text, because you could only choose to search within abstract or title, and not both.

1.4 SpringerLink

Query:

- (Train OR plane OR bus OR delivery) AND (“path optimization” OR “scheduling optimization” OR “route optimization” OR planning OR multimodal) AND (“bee colony optimization” OR “particle swarm optimization” OR “swarm intelligence” OR “ant colony optimization” OR bco OR pso OR aco) AND (transit OR transportation OR traffic OR vehicle) AND (“artificial intelligence” OR ai OR “machine learning”) AND “multi agent” AND routing

Date of search: 10.11.2014

Results: 19

Searched for articles within Computer Science and Engineering.

Chapter 2

Protocol

	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Term1	Train	Path optimization	Bee colony optimization	Transit	Artificial intelligence	Multi agent	Routing	Neo4j
Term2	Plane	Scheduling optimization	Particle swarm optimization	Transportation	AI			Graph database
Term3	Bus	Route optimization	Swarm intelligence	Traffic				
Term4	Delivery	Planning	Ant colony optimization	Vehicle				
Term5			BCO					
Term6			PSO					
Term7			ACO					

Table 2.1: Matrix of search terms

2.1 Search Terms

- Group 1: Train, plane, bus, delivery
- Group 2: Path optimization, Scheduling Optimization, Route Optimization, Planning

- Group 3: Bee colony optimization, Particle swarm optimization, Swarm intelligence, Ant colony optimization, BCO, PSO, ACO
- Group 4: Transit, Transportation, Traffic, Vehicle
- Group 5: Artificial Intelligence, ai
- Group 6: Multi-agent
- Group 7: Routing
- Group 8: Neo4j, Graph database