

Passenger Ride Requirement

Match once again
per specified time

**Unmatched
Passenger Queue**

$\{T\}$

Neighboring Filtering Stage

$\{T_N\}$

Is $\{T_N\}$ empty?

Yes

No

Capacity Filtering Stage

$\{T_C\}$

Is $\{T_C\}$ empty?

Yes

No

Schedule Computing Stage

$\{T_C\}, \{S_n\}$

Time Limit Filtering Stage

$\{T_L\}, \{S_n\}$

Is $\{T_C\}$ empty?

Yes

No

Detour Distance computing Stage

$\{T_L\}, \{S_n\}, \{D_n\}$

Taxi Matching Stage

**Recommended
Taxi Queue**

Recommended Taxi

Taxi Dispatching Stage

Preprocess Phase

Inference Phase

Dispatch Phase

