WE CLAIM:

1. A system for processing traffic objects, comprising:

at least one storage medium including a set of instructions; and

at least one processor in communication with the at least one storage medium, wherein when executing the set of instructions, the at least one processor is directed to cause the system to:

receive detection information associated with a plurality of traffic objects within a predetermined range of a vehicle;

extract feature values of a plurality of features of each of the plurality of traffic objects from the detection information;

obtain a plurality of feature weights corresponding to the plurality of features of each traffic object; and

determine a priority queue associated with the plurality of traffic objects based on a plurality of priority values, each corresponding to each traffic object, wherein the priority value is based on the plurality of feature weights and the feature values of each traffic object.

2. The system of claim 1, wherein the plurality of features of each of the plurality of traffic objects include a type of the traffic object, a position of the traffic object, a velocity of the traffic object, an acceleration of the traffic object, and a distance between the traffic object and the vehicle.

3. The system of claim 1 or claim 2, wherein the plurality of feature weights are determined based at least in part on a predetermined rule, statistical data, or machine learning.

4. The system of any of claims 1-3, wherein the plurality of feature weights

are adjusted based on test data.

5. The system of any of claims 1-4, wherein the plurality of feature weights are associated with traffic information, environmental information, time information, geographical information, or any combination thereof.

6. The system of any of claims 1-5, wherein the at least one processor is directed to cause the system further to:

process the plurality of traffic objects based on the priority queue.

7. The system of claim 6, wherein to process the plurality of traffic objects based on the priority queue, the at least one processor is directed to cause the system to:

process at least part of the plurality of traffic objects one by one according to the priority queue within a predetermined processing time period.

8. The system of claim 6 or claim 7, wherein to process the plurality of traffic objects based on the priority queue, the at least one processor is directed to cause the system to:

select at least part of the plurality of traffic objects based on the priority queue; and

process the at least part of the plurality of traffic objects in a parallel mode or a distributed mode within a predetermined processing time period.

9. The system of any of claims 1-8, wherein the at least one processor is directed to cause the system further to:

obtain traffic conditions associated with the predetermined range of the

vehicle;

predict probable behaviors associated with at least part of the plurality of traffic objects based on features of the at least part of the plurality of traffic objects and the traffic conditions; and

determine a driving path for the vehicle based on the probable behaviors associated with the at least part of the plurality of traffic objects.

10. The system of claim 9, wherein the at least one processor is directed to cause the system further to:

transmit signals to one or more control components of the vehicle to direct the vehicle to follow the driving path.

11. A method implemented on a computing device having at least one processor, at least one storage medium, and a communication platform connected to a network, the method comprising:

receiving detection information associated with a plurality of traffic objects within a predetermined range of a vehicle;

extracting feature values of a plurality of features of each of the plurality of traffic objects from the detection information;

obtaining a plurality of feature weights corresponding to the plurality of features of each traffic object; and

determining a priority queue associated with the plurality of traffic objects based on a plurality of priority values, each corresponding to each traffic object, wherein the priority value is based on the plurality of feature weights and the feature values of each traffic object.

12. The method of claim 11, wherein the plurality of features of each of the

plurality of traffic objects include a type of the traffic object, a position of the traffic object, a velocity of the traffic object, an acceleration of the traffic object, and a distance between the traffic object and the vehicle.

13. The method of claim 11 or claim 12, wherein the plurality of feature weights are determined based at least in part on a predetermined rule, statistical data, or machine learning.

14. The method of any of claims 11-13, wherein the plurality of feature weights are adjusted based on test data.

15. The method of any of claims 11-14, wherein the plurality of feature weights are associated with traffic information, environmental information, time information, geographical information, or any combination thereof.

16. The method of any of claims 11-15, further comprising:

processing the plurality of traffic objects based on the priority queue.

17. The method of claim 16, wherein the processing of the plurality of traffic objects based on the priority queue includes:

processing at least part of the plurality of traffic objects one by one according to the priority queue within a predetermined processing time period.

18. The method of claim 16 or claim 17, wherein the processing of the plurality of traffic objects based on the priority queue includes:

selecting at least part of the plurality of traffic objects based on the priority queue; and

processing the at least part of the plurality of traffic objects in a parallel mode or a distributed mode within a predetermined processing time period.

19. The method of any of claims 11-18, further comprising:

obtaining traffic conditions associated with the predetermined range of the vehicle;

predicting probable behaviors associated with at least part of the plurality of traffic objects based on features of the at least part of the plurality of traffic objects and the traffic conditions; and

determining a driving path for the vehicle based on the probable behaviors associated with the at least part of the plurality of traffic objects.

20. The method of claim 19, further comprising:

transmitting signals to one or more control components of the vehicle to direct the vehicle to follow the driving path.

21. A non-transitory computer readable medium, comprising executable instructions that, when executed by at least one processor, direct the at least one processor to perform a method, the method comprising:

receiving detection information associated with a plurality of traffic objects within a predetermined range of a vehicle;

extracting feature values of a plurality of features of each of the plurality of traffic objects from the detection information;

obtaining a plurality of feature weights corresponding to the plurality of features of each traffic object; and

determining a priority queue associated with the plurality of traffic objects based on a plurality of priority values, each corresponding to each traffic object,

wherein the priority value is based on the plurality of feature weights and the feature values of each traffic object.