CLAIMS

1. A method for monitoring a ride of a vehicle, the method comprising:

obtaining data associated with movement of the vehicle during the ride from at least one mobile device associated with the ride;

detecting, based on the data, a plurality of events occurring during the ride over a plurality of monitoring intervals; and

determining whether the ride corresponds to an unsafe event by evaluating a subsequently detected event of the plurality of events in dependence on one or more previously detected events during the ride.

2. The method of claim 1, wherein detecting the plurality of events comprises detecting one or more of: a deviation from a planned route for the ride; whether the vehicle has stopped for longer than a predefined duration across the plurality of successive monitoring intervals; a plurality of stops at different times during the ride; and repeated occurrences of a same type of event during the ride.

3. The method of claim 1 or 2, wherein determining whether the ride corresponds to an unsafe event is further based on each risk level corresponding to each of the plurality of detected events.

4. The method of any one of claims 1 to 3, wherein determining whether the ride corresponds to an unsafe event is based on contextual information comprising at least one of a location of the vehicle, a time associated with the ride, traffic conditions associated with the location, or historical incident data associated with the location.

5. The method of any one of claims 1 to 4, wherein determining whether the ride corresponds to an unsafe event comprises aggregating event data from both a passenger device and a driver device of the at least one mobile device.

6. The method of any one of claims 1 to 5, wherein detecting the plurality of events is performed at least in part on the at least one mobile device prior to transmitting event information to a server.

7. The method of any one of claims 1 to 6, further comprising triggering an intervention action in response to determining that the ride corresponds to the unsafe event, the intervention

action comprising at least one of making a call to an occupant of the vehicle, sending a message to an occupant of the vehicle, activating audio recording of the at least one mobile device, communicating with a next-of-kin of an occupant of the vehicle, and requesting assistance from a public service or an incident response team.

8. The method of claim 7, further comprising receiving a status response from an occupant of the vehicle following the intervention action, and updating a safety determination model based on the received status response.

9. A system for monitoring a ride of a vehicle, comprising:

at least one processor; and

at least one memory including computer program code;

the at least one memory and the computer program code configured to, with the at least one processor, cause the system at least to:

obtain data associated with movement of the vehicle during the ride from at least one mobile device associated with the ride;

detect, based on the data, a plurality of events occurring during the ride over a plurality of monitoring intervals; and

determine whether the ride corresponds to an unsafe event by evaluating a subsequently detected event of the plurality of events in dependence on one or more previously detected events during the ride.

10. The system of claim 9, wherein detecting the plurality of events comprises detecting one or more of: a deviation from a planned route for the ride; whether the vehicle has stopped for longer than a predefined duration across the plurality of successive monitoring intervals; a plurality of stops at different times during the ride; and repeated occurrences of a same type of event during the ride.

11. The system of claim 9 or 10, wherein determining whether the ride corresponds to an unsafe event is further based on each risk level corresponding to each of the plurality of detected events.

12. The system of any one of claims 9 to 11, wherein determining whether the ride corresponds to an unsafe event is based on contextual information comprising at least one of a location of the vehicle, a time associated with the ride, traffic conditions associated with the location, or historical incident data associated with the location.

13. The system of any one of claims 9 to 12, wherein determining whether the ride corresponds to an unsafe event comprises aggregating event data from both a passenger device and a driver device of the at least one mobile device.

14. The system of any one of claims 9 to 13, wherein detecting the plurality of events is performed at least in part on the at least one mobile device prior to transmitting event information to a server.

15. The system of any one of claims 9 to 14, further configured to trigger an intervention action in response to determining that the ride corresponds to the unsafe event, the intervention action comprising at least one of making a call to an occupant of the vehicle, sending a message to an occupant of the vehicle, activating audio recording of the at least one mobile device, communicating with a next-of-kin of an occupant of the vehicle, and requesting assistance from a public service or an incident response team.

16. The system of claim 15, further configured to receive a status response from an occupant of the vehicle following the intervention action, and update a safety determination model based on the received status response.