【CLAIMS】

【Claim 1】

An autonomous vehicle simulator system comprising:

a database storing a plurality of autonomous vehicle operation data, operation environment data, and user information;

a database management system (DBMS) controlling data input to and output from the database;

an input module receiving user identification information;

a security module assigning access authorization by matching the user identification information received by the input module to the user information in the database; and

a simulator operated based on data in the database, wherein one autonomous vehicle data in the database is packaged into a plurality of data sets and each of the plurality of data sets includes at least one data packet;

wherein each said autonomous vehicle data comprises a data set of each of perception, planning, and control data sets;

wherein the input module receives data packet information or usage authority request information of the autonomous vehicle from a user terminal, and when the input module receives the data packet, the DBMS classifies a data

set corresponding to the data packet and inputs the classified data set to the database; and

wherein, when data packet information is previously input from a first user terminal and stored in the database and another user terminal requests authorization to use the corresponding data packet, the security module transmits a notification on the authority to use the corresponding data packet and data packet sharing information to the first user terminal.

【Claim 2】

The autonomous vehicle simulator system of claim 1, further comprising:

a control module selecting an output of one data packet on one data set, wherein information of a data packet selected from each of the plurality of data sets is transmitted to the simulator.

【Claim 3】

The autonomous vehicle simulator system of claim 2, wherein one autonomous vehicle data is packaged into some data sets and other data sets, and when the DBMS receives data packets of some data sets from one user terminal and transmits the corresponding data packets to the simulator,

the DBMS determines whether the other data sets in the database have data packets, and when data packets within the other data sets do exist, the DBMS transmits the corresponding data packets to the simulator.

【Claim 4】

The autonomous vehicle simulator system of claim 1, further comprising:

an output module either displaying information on virtual environment that is being operated in the simulator or transmitting data.

【Claim 5】

The autonomous vehicle simulator system of claim 1, wherein the input module receives real-world test drive data of the autonomous vehicle and inputs the real-world test drive data of the autonomous vehicle as operation environment data of the database through the DBMS, and the simulator receives the autonomous vehicle operation data and operation environment data from the database.