CLAIMS

[Claim 1]

A method of measuring a road surface state, characterized by comprising:

extracting, based on measurement values of a G sensor obtained when a vehicle having the G sensor installed therein travels a predetermined road section, a target road section for measurement and calculation of an MCI value, the target road section being a part of the predetermined road section and including a road surface that meets a predetermined degradation criteria, and

limiting, to the target road section that is the part of the predetermined road section, road sections which are targets of road surface condition measurement performed by using a road surface condition measurement vehicle having laser scanning and camera image capturing functions to obtain the MCI value, the road surface condition measurement requiring performing an analysis process in greater detail than a process of obtaining the measurement values of the G sensor.

[Claim 2]

A method of identifying a degradation point of a road surface, characterized by comprising:

identifying, based on a travel position of a vehicle and a state of a road surface that are measured by a G sensor installed in the vehicle, a road surface position that meets a predetermined degradation criteria;

calculating, based on layout position information of kilometer posts on the road surface, a kilometer post section including the identified road surface position; and

outputting the calculated kilometer post section as a candidate for a target of road surface condition measurement performed by using a road surface condition measurement vehicle having laser scanning and camera image capturing functions to obtain an MCI value, the road surface condition measurement requiring performing an analysis process in greater detail than a process of obtaining the measurement values of the G sensor.

[Claim 3]

The method as claimed in claim 2, characterized in that the calculating includes calculating successive kilometer

post sections as a section between two kilometer posts that are located at ends of the successive kilometer post sections when the identified road surface positions are included in the successive kilometer post sections, respectively.

[Claim 4]

The method as claimed in claim 2, characterized in that the outputting includes outputting the information with which the calculated kilometer post section is identified as a calculation target section in which an MCI value is to be measured, the calculation target section being in an order document related to a measurement of the MCI value.

[Claim 5]

An information processing apparatus, characterized by comprising:

a means for extracting, based on measurement values of a G sensor obtained when a vehicle having the G sensor installed therein travels a predetermined road section, a target road section for measurement and calculation of an MCI value, the target road section being a part of the predetermined road section and including a road surface that

meets a predetermined degradation criteria; and

a means for outputting information for limiting, to the target road section that is the part of the predetermined road section, road sections which are targets of road surface condition measurement performed by using a road surface condition measurement vehicle having laser scanning and camera image capturing functions to obtain the MCI value, the road surface condition measurement requiring performing an analysis process in greater detail than a process of obtaining the measurement values of the G sensor.

[Claim 6]

An information processing apparatus, characterized by comprising:

a means for identifying, based on a travel position of a vehicle and a state of a road surface that are measured by a G sensor installed in the vehicle, a road surface position that meets a predetermined degradation criteria;

a means for calculating, based on layout position information of kilometer posts on the road surface, a kilometer post section including the identified road surface

position; and

a means for outputting the calculated kilometer post section as a candidate for a target of road surface condition measurement performed by using a road surface condition measurement vehicle having laser scanning and camera image capturing functions to obtain an MCI value, the road surface condition measurement requiring performing an analysis process in greater detail than a process of obtaining the measurement values of the G sensor.

[Claim 7]

A program for causing a computer to execute a process, characterized in that the process comprises:

extracting, based on measurement values of a G sensor obtained when a vehicle having the G sensor installed therein travels a predetermined road section, a target road section for measurement and calculation of an MCI value, the target road section being a part of the predetermined road section and including a road surface that meets a predetermined degradation criteria, and

limiting, to the target road section that is the

part of the predetermined road section, road sections which are targets of road surface condition measurement performed by using a road surface condition measurement vehicle having laser scanning and camera image capturing functions to obtain the MCI value, the road surface condition measurement requiring performing an analysis process in greater detail than a process of obtaining the measurement values of the G sensor.

[Claim 8]

A program for causing a computer to execute a process, characterized in that the process comprises:

identifying, based on a travel position of a vehicle and a state of a road surface that are measured by a G sensor installed in the vehicle, a road surface position that meets a predetermined degradation criteria;

calculating, based on layout position information of kilometer posts on the road surface, a kilometer post section including the identified road surface position; and

outputting the calculated kilometer post section as a candidate for a target of road surface condition measurement

performed by using a road surface condition measurement vehicle having laser scanning and camera image capturing function to obtain an MCI value, the road surface condition measurement requiring performing an analysis process in greater detail than a process of obtaining the measurement values of the G sensor.