

Citation List

Patent Literature

[0005]

PTL 1: Japanese Unexamined Patent Application Publication No. 2013-255786

SUMMARY OF THE INVENTION

TECHNICAL PROBLEM

[0006]

In the evaluation method described in PTL 1, however, a sheet-type pressure sensor is used to measure the walking parameters and thus the probability of geriatric diseases cannot be easily evaluated. Thus, it takes a long time to evaluate the probability of geriatric diseases.

[0007]

Embodiments of the present invention provide, for example, a cognitive function evaluation device and the like that can quickly evaluate a cognitive function.

SOLUTIONS TO PROBLEM

[0008]

According to a first aspect of the present invention, there is provided a cognitive function evaluation device including: a storing unit storing reference data on the relationship between the periodicity of a body movement of a person walking and the cognitive function level of the person; an acquiring unit that acquires body movement data on a detected body movement from a body movement sensor that detects the body movement of a subject walking; and a calculating unit that calculates the periodicity of the body movement from the acquired body movement data and checks the calculated periodicity of the body movement against the reference data stored in the storing unit so as to identify the cognitive function level corresponding to the calculated periodicity of the body movement.

[0009]

According to a second aspect of the present invention, there is provided a cognitive function evaluation method including the steps of: acquiring body movement data on the detected body movement from a body movement sensor that detects the body movement of a subject walking; and calculating the periodicity of the body movement from the acquired body movement data and identifying a cognitive function level corresponding to the calculated periodicity of the body movement by checking the calculated periodicity of the body movement against reference data that is stored in the storing unit and indicates the relationship between the periodicity of the body movement of a person walking and the cognitive function of the person.

[0010]

According to a third aspect of the present invention, there is provided a program for enabling a computer to perform the steps included in the above cognitive function evaluation method.

ADVANTAGEOUS EFFECT OF INVENTION

[0011]

The cognitive function evaluation device and the like according to the above aspects of the present invention can quickly evaluate a cognitive function.

BRIEF DESCRIPTION OF DRAWINGS

[0012]

FIG. 1 illustrates a system configuration including a cognitive function evaluation device according to Embodiment 1.

FIG. 2 is a block diagram illustrating the characteristic functional configuration of the cognitive function evaluation device according to Embodiment 1.