DESCRIPTION

REGION RECOMMENDATION DEVICE

TECHNICAL FIELD

The present disclosure relates to a region recommendation device.

BACKGROUND ART

There is a technique of recommending a comfortable seat for a target person at the time of entering a room in a free address space such as a shared office. The apparatus disclosed in PTL 1 (Japanese Unexamined Patent Application Publication No. 2014-214975) recommends a seat that is comfortable for a target person by using environmental information such as a temperature, a humidity, and an illuminance.

SUMMARY OF INVENTION

<Technical Problem>

When determining a comfortable seat for a target person, it is not possible to make sufficient determination only by the environmental information.

<Solution to Problem>

A region recommendation device according to ~~a first~~an aspect determines one or more recommended regions to be recommended to a target person from among a plurality of target regions in a target space. The region recommendation device includes a usage information acquiring unit, an environmental information acquiring unit, a non-environmental information acquiring unit, an information storage unit, and a recommended region determining unit. The usage information acquiring unit acquires usage information including at least one of a past usage history of the target regions and current availability of the target regions. The environmental information acquiring unit acquires environmental information regarding an indoor environment in the target regions. The non-environmental information acquiring unit acquires, as non-environmental information, at least one of biological information of a person in the target space and region feature information regarding equipment and peripheral information in the target regions. The information storage unit stores information acquired by the usage information acquiring unit, the environmental information acquiring unit, and the non-environmental information acquiring unit.The recommended region determining unit quantifies the information stored in the information storage unit as one or more multi-dimensional information points in a multi-dimensional space, calculates a degree of similarity between the multi-dimensional information points, and determines the one or more recommended regions.

In the region recommendation device according to the ~~first~~above aspect, the recommended region determining unit determines the one or more recommended regions in consideration of not only the environmental information but also the non-environmental information when determining the one or more recommended regions. Therefore, the region recommendation device can determine a region or regions comfortable for the target person in consideration of more information.

In the region recommendation device according to the ~~first~~above aspect, the recommended region determining unit quantifies the information stored in the information storage unit as one or more multi-dimensional information points in a multi-dimensional space, and determines the one or more recommended regions. Accordingly, the region recommendation device can determine the one or more recommended regions by comprehensively quantifying various pieces of information with one measure.

~~A~~In an embodiment of the region recommendation device ~~according to a second aspect is the region recommendation device according to the first aspect in which,~~ the environmental information includes at least one of a temperature, a humidity, an illuminance, a color of illumination, and a noise.

~~A~~In an embodiment of the region recommendation device ~~according to a third aspect is the region recommendation device according to the first or second aspect in which,~~ the biological information includes at least one of a body surface temperature, a core body temperature, and a pulse.

~~A~~In an embodiment of the region recommendation device ~~according to a fourth aspect is the region recommendation device according to any one of the first to third aspects in which,~~ the region feature information includes at least one of a type of chair, a type of table, personal use or shared use, whether a window is near, a population density, presence or absence of an outlet, and proximity of OA equipment in the target regions.

~~A~~In an embodiment of the region recommendation device ~~according to a fifth aspect is the region recommendation device according to any one of the first to fourth aspects in which~~, regarding the target person and the target regions, the recommended region determining unit quantifies the usage information, the environmental information, and the non-environmental information of a past as one or more past multi-dimensional information points in the multi-dimensional space, and quantifies the usage information, the environmental information, and the non-environmental information of present as one or more current multi-dimensional information points in the multi-dimensional space.

~~A~~In an embodiment of the region recommendation device ~~according to a sixth aspect is the region recommendation device according to the fifth aspect in which,~~ the recommended region