

Citation List

Patent Literature

[0004]

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Summary

[0005]

However, in an actual conference, a state in which the conference is converging (calm) or a state in which the discussion is diverging may or may not be the appropriate state (the assumed state) in the conference situation, for example. Even at the same conference, there are various conference states, such as a state in which active discussions are made and a state in which calm discussions are made depending on time zones, for example. Therefore, if the environment of the conference room space is changed simply to meet the purpose of the conference, unnecessary control will be performed when the state of the conference is appropriate, or necessary control will not be performed when the state of the conference is not appropriate. In other words, if the environment of the conference room is controlled simply to meet the purpose of the conference, there may be cases in which the environment of the conference room is not controlled appropriately.

[0006]

The present disclosure has been devised in view of such problems of the prior art. An object of the present disclosure is to provide a conference support device capable of appropriately controlling the environment of the space in which a conference is held.

[0007]

To solve the above problems, in one aspect, the present disclosure refers to a conference support device comprising: a conference information acquisition unit that acquires conference information on a conference to be held; an activity estimation unit that generates estimation information in which an activity level of the conference to be

held is estimated based on the conference information; a storage unit that stores correspondence relationship information indicating a correspondence relationship between the conference information and equipment control information of environment control equipment that controls an environment of a space in which the conference is held; a control information acquisition unit that acquires the equipment control information corresponding to the conference information from the correspondence relationship information stored in the storage unit; an equipment control unit that controls the environmental control equipment and a sound collecting device disposed in the space in which the conference is held, based on the equipment control information; a conversation data acquisition unit that acquires conversation data of a participant of the conference from the sound collecting device; an activity generation unit that generates activity level information indicating the activity level of the conference based on the conversation data; a difference calculation unit that calculates information indicating a difference between the estimation information and the activity level information; and a difference adjustment unit that changes the equipment control information based on the difference information.

[0008]

In another aspect, the present disclosure refers to a conference support system comprising: environment control equipment that controls an environment of a space in which a conference is held; a sound collecting device disposed in the space in which the conference is held; and a conference support device that controls the environment control equipment and the sound collecting device. The conference support device in the conference support system includes: a conference information acquisition unit that acquires conference information on the conference to be held; an activity estimation unit that generates estimation information in which an activity level of the conference to be held is estimated based on the conference information; a storage unit that stores correspondence relationship information indicating a correspondence relationship between the conference information and equipment control information of the environmental control equipment; a control information

acquisition unit that acquires the equipment control information corresponding to the conference information from the correspondence relationship information stored in the storage unit; an equipment control unit that controls the environmental control equipment and the sound collecting device based on the equipment control information; a conversation data acquisition unit that acquires conversation data of a participant of the conference from the sound collecting device; an activity generation unit that generates activity level information indicating the activity level of the conference based on the conversation data; a difference calculation unit that calculates information indicating a difference between the estimation information and the activity level information; and a difference adjustment unit that changes the equipment control information based on the difference information.

[0009]

In yet another aspect, the present disclosure refers to a conference support method executed by a computer, comprising: acquiring conference information on a conference to be held; generating estimation information in which an activity level of the conference to be held is estimated based on the conference information; acquiring the equipment control information corresponding to the conference information from a storage unit that stores correspondence relationship information indicating a correspondence relationship between the conference information and equipment control information of environment control equipment that controls an environment of a space in which the conference is held; controlling the environmental control equipment and a sound collecting device disposed in the space in which the conference is held, based on the equipment control information; acquiring conversation data of a participant of the conference from the sound collecting device; generating activity level information indicating the activity level of the conference based on the conversation data; calculating information indicating a difference between the estimation information and the activity level information; and changing the equipment control information based on the difference information.

[0010]

In yet another aspect, the present disclosure refers to a conference support program that causes a computer to execute processes comprising: acquiring conference information on a conference to be held; generating estimation information in which an activity level of the conference to be held is estimated based on the conference information; acquiring the equipment control information corresponding to the conference information from a storage unit that stores correspondence relationship information indicating a correspondence relationship between the conference information and equipment control information of environment control equipment that controls an environment of a space in which the conference is held; controlling the environmental control equipment and a sound collecting device disposed in the space in which the conference is held, based on the equipment control information; acquiring conversation data of a participant of the conference from the sound collecting device; generating activity level information indicating the activity level of the conference based on the conversation data; calculating information indicating a difference between the estimation information and the activity level information; and changing the equipment control information based on the difference information.

Brief Description of the Drawings

[0011]

[Fig. 1] Fig. 1 is a diagram for showing an example of a conference support system according to a first embodiment.

[Fig. 2] Fig. 2 is a functional block diagram for explaining the functions of a conference support device 100 according to a first embodiment.

[Fig. 3] Fig. 3 is a diagram for showing examples of screen displays for inputting conference information displayed on a user terminal according to a first embodiment.

[Fig. 4] Fig. 4 is a diagram for showing an example of conference information according to a first embodiment.

[Fig. 5] Fig. 5 is a diagram for showing an example of correspondence