

ABSTRACT

SELF-LEARNING LIGHTING GROUP CONTROL SYSTEM AND METHOD

The present invention relates to the technical field of intelligent lighting, and discloses a self-learning lighting group control system and method. The system includes a plurality of intelligent lighting nodes, wherein each intelligent lighting node includes a sensing module, a storage module, a calculation module, a communication module, a control module and a lighting module; wherein the sensing module collects trigger data when a moving body passes through a lighting area; the communication module transmits the trigger data to other intelligent lighting nodes and receives communication data responded by the other intelligent lighting nodes; and the calculation module adaptively generates a lighting group control scheme according to the trigger data and the communication data, and the control module controls the intelligent lighting nodes on the adjacent and pre-determined traveling routes to control its own lighting module to achieve a lighting effect corresponding to the lighting group control scheme. The present invention can realize concomitant lighting following the movement of a moving body and farther safe lighting in the direction of travel, and can better guarantee the lighting experience and safety under the premise of ensuring dynamic energy saving.

Figure 1