CHIP RECOGNITION SYSTEM

BACKGROUND

Technical Field

[0001]

The present invention relates to a chip recognition system that recognizes stacked chips.

Related Art

[0002]

In games such as a baccarat game, betting is done by stacking a plurality of chips. Hence, there is a need to correctly recognize the stacked chips.

SUMMARY

[0004]

Embodiments of the present disclosure seek to provide a chip recognition system capable of accurately recognizing stacked chips.

[0004a]

An aspect of the present invention provides a chip recognition system for a gaming table on which chips are stacked, the chip recognition system comprising: a first game recording apparatus, wherein the first game recording apparatus is configured to capture a first image of the gaming table; a second game recording apparatus, wherein the second game recording apparatus is configured to capture a second image of the gaming table; and at least one processor, wherein the at least one

processor is configured to: perform an image analysis of the first image using an artificial intelligence technology and an image analysis of the second image using an artificial intelligence technology; determine, based on results of the respective image analyses, respective numbers and positions of the chips appeared in the first and the second images; and decide a number and a position of the chips stacked on the gaming table based on the respective numbers and positions of the chips determined by the image analysis of the first and second images.

[0004b]

Another aspect of the present invention provides a chip recognition system for a gaming table on which chips are stacked, the chip recognition system comprising a first camera, wherein the first camera is configured to capture a first image of the gaming table; a second camera, wherein the second camera is configured to capture a second image of the gaming table; and at least one processor, wherein the at least one processor is configured to: perform an image analysis of the first image using an artificial intelligence technology and an image analysis of the second image using an artificial intelligence technology; determine, based on results of the respective image analyses, respective numbers and positions of the chips appeared in the first and the second images; and decide a number and a position of the chips stacked on the gaming table based on the respective numbers of the chips determined by the image analysis of the first and second images, wherein the first

camera and the second camera are installed in different locations and/or at different angles such that the first camera and the second camera capture different aspects of same chips of the chips stacked on the gaming table, thereby there are one or more chips that are determined by the image analysis of the first image but are not determined by the image analysis of the second image.

[0005]

According to one embodiment, provided is a chip recognition system that recognizes a chip on a gaming table in an amusement place having the gaming table, the chip recognition system comprising: a game recording apparatus that records, as an image, a state of chips stacked on the gaming table, using a camera; an image analysis apparatus that performs an image analysis on the recorded image of the state of chips; a plurality