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Abstract

The purpose of the present invention is to accurately land a vertical take-off and landing aircraft on a target landing point. This automatic landing system is provided with: an imaging device mounted on a vertical take-off and landing aircraft; a relative-position acquisition unit that performs image
10 processing on an image, of a marker provided to a target landing point, captured by the imaging device, and that acquires a relative position between the vertical take-off and landing aircraft and the target landing point; a relative-altitude acquisition unit for acquiring a relative altitude between the vertical take-off and landing aircraft and the target landing point; and a control unit for
15 controlling the vertical take-off and landing aircraft in a plurality of control modes so that the relative position becomes zero, wherein the control modes include a hovering mode and a landing mode. In the hovering mode, the relative altitude of the vertical take-off and landing aircraft is lowered to a predetermined relative altitude when the relative position is within a first
20 threshold value. The transition to the landing mode takes place upon satisfaction of predetermined conditions including a condition in which the relative position is within a predetermined threshold value which is less than the first threshold value. In the landing mode, the relative altitude of the vertical take-off and landing aircraft is further lowered so as to make a landing on the
25 target landing point.