

ABSTRACT

HYDROFOIL HEIGHT CONTROL DEVICE, HYDROFOIL CRAFT, HYDROFOIL
HEIGHT CONTROL METHOD, PROGRAM, AND MODEL CONSTRUCTION DEVICE

5

A hydrofoil height control device controls one or more flaps for adjusting a height of a hydrofoil craft from a water surface. The device includes: a normal-manipulated-variable acquisition unit configured to acquire a normal manipulated variable of the flap used in a normal operation of the hydrofoil craft; a target wave image acquisition unit configured to
10 acquire a target wave image of a wave captured from at least one imaging position on the hydrofoil craft; a determination unit configured to determine whether an additional operation is necessary for the flap in addition to the normal operation, based on the determined normal manipulated variable and the target wave image; an additional-manipulated-variable acquisition unit configured to, if it is determined that the additional operation is necessary,
15 acquire an additional manipulated variable of the flap according to the target wave image, based on an additional-manipulated-variable derivation model learned with learning data including a relationship between a manual operation image of the wave captured from a position corresponding to the imaging position when an operator performs a manual operation and a manual manipulated variable in the manual operation; and an operation unit configured
20 to output an actual manipulated variable of the flap, based on the normal manipulated variable and the additional manipulated variable.

(FIG. 1)