

ABSTRACT

An information processing method, a computer program, and an information processing apparatus for optimizing a physical system are provided. In the information processing method according to the present embodiment, the information processing apparatus stores, in a storage, a system model obtained by coupling component models obtained by respectively modeling physical components included in a physical system and modeling the physical system, receives a setting of an objective function for performing an arithmetic operation based on an output value of the system model, determines an allowed region for an input value, in which an output value of the objective function satisfies a predetermined condition, determines an allowed region for an input value of the component model in which an output value of the component model falls within the allowed region, for the component model outputting the input value, and determines an allowed region for an input value of the system model by determining the allowed region for component models constituting the system model.

FIG. 1