region including plural buildings. For example, Patent Document 1 proposes a method of using a neural network to predict wind speed distributions for an urban area including plural buildings.

[0004]

Patent Document 1: Japanese Unexamined Patent Application, Publication No.2021-124368

DISCLOSURE OF THE INVENTION

Problems to be Solved by the Invention

[0005]

However, according to the conventional method, it is difficult to accurately predict wind speed distributions for a region including plural buildings (hereinafter, referred to as a city block), and the analysis based on the CFD takes a long time. On the other hand, simple analysis methods or prediction methods using a neural network have not achieved sufficient accuracy.

[0006]

The present invention is to provide a flow field prediction device, a learning device, a flow field prediction program, and a learning program capable of predicting a flow field of a city block with high accuracy and efficiency.

Means for Solving the Problems

Summary

[0007]

A flow field prediction device according to an aspect includes: an analysis result acquisition unit that

[0015]

A learning device according to an aspect includes: a first data acquisition unit that acquires a first analysis result based on a first computation method of analyzing at least an influence between buildings with respect to a flow field in which a city block including a plurality of buildings is set as a target region; a second data acquisition unit that acquires, with respect to the flow field in which the target region is the city block, a second analysis result based on a second computation method that is more accurate than the first computation method; and a learning processing unit that updates a learning model using teaching data that includes the second analysis result as correct answer data for input data including the first analysis result.

[0016]

A flow field prediction program according to an aspect causes a computer to function as the flow field prediction device.

[0017]

A learning program according to an aspect causes a computer to function as the learning device.

Effects of the Invention

[0018]

According to the present invention, it is possible to predict a flow field of a city block with high accuracy and efficiency.