

## CLAIMS

1. An information processing device comprising:

a recognition result acquiring means for acquiring respective recognition result information outputted by a plurality of recognition engines executing different recognition processes on recognition target data; and

an integration recognition result outputting means for outputting a new recognition result obtained by integrating the respective recognition result information acquired from the plurality of recognition engines, wherein:

the recognition result acquiring means is configured to acquire the respective recognition result information in a graph-structured or tree-structured data format common to the plurality of recognition engines, from the plurality of recognition engines; and

the integration recognition result outputting means is configured to, when the respective recognition result information include information corresponding to each other in accordance with a predetermined standard, integrate each part of the respective recognition result information so as to be related to each other ~~based on the respective recognition result information~~, and output in the graph-structured or tree-structured data format as the new recognition result.

~~2. The information processing device according to Claim 1, wherein the integration recognition result outputting means is configured to, when the respective recognition result information include information that correspond to each other in accordance with a predetermined standard, integrate the respective recognition result information and output as the new recognition result.~~

32. The information processing device according to Claim 1 ~~or 2~~, comprising a definition information storing means for storing: recognition result definition information that defines a data format of the recognition result information acquired by the recognition result acquiring means from each of the plurality of recognition engines; and integration definition information that defines an integration format in which the integration recognition result outputting means integrates the respective recognition result information, wherein:

the recognition result acquiring means is configured to acquire the respective recognition result information in the data format defined by the recognition result definition information; and

the integration recognition result outputting means is configured to integrate the respective recognition result information in the integration format defined by the integration definition information, and output the new recognition result.

~~4. The information processing device according to any of Claims 1 to 3, wherein the recognition result information acquired by the recognition result acquiring means from each of the plurality of recognition engines is in a graph-structured or tree-structured data format.~~

~~53.~~ An information processing device comprising:

a recognition result acquiring means for acquiring respective recognition result information outputted by a plurality of recognition engines executing different recognition processes on recognition target data; and

an integration recognition result outputting means for outputting a new recognition result obtained by integrating the respective recognition result information acquired from the plurality of recognition engines,

the recognition result acquiring means is configured to acquire the respective recognition result information in a data format common to the plurality of recognition engines, from the plurality of recognition engines;

the integration recognition result outputting means is configured to, when the respective recognition result information include information that correspond to each other in accordance with a predetermined standard, integrate the respective recognition result information and output as the new recognition result;

~~The information processing device according to Claim 2, wherein:~~

~~the recognition result acquiring means is configured to acquire the recognition result information from an object recognition engine that recognizes an object from the recognition target data and a flow recognition engine that recognizes a flow representing a trajectory of a predetermined object from the recognition target data, respectively; and~~

~~the integration recognition result outputting means is configured to integrate by relating flow information of a predetermined object with object information and output as the new recognition result, the flow information being the recognition result information acquired from the flow recognition engine, and the object information being the recognition result information acquired from the object recognition engine.~~

~~64.~~ The information processing device according to Claim ~~53~~, wherein:

~~the recognition result acquiring means is configured to: acquire the recognition result information including location information representing a position of an object recognized from the recognition target data by the object recognition engine and also representing a date and time when the object is recognized, from the object recognition engine; and also acquire flow information of a predetermined object recognized from the recognition target data by the flow recognition engine, from the flow recognition engine; and~~

~~the integration recognition result acquiring means is configured to, when the flow information acquired from the flow recognition engine includes information that corresponds to the location information acquired from the object recognition engine in accordance with a~~

predetermined standard, integrate by relating the flow information that is the recognition result acquired from the flow recognition engine with object information identified by the recognition result information that is acquired from the object recognition engine and that includes the information corresponding to the location information, and output as the new recognition result.

75. The information processing device according to Claim 21, wherein:

the recognition result acquiring means is configured to acquire the recognition result information from a plurality of object recognition engines recognizing an object from the recognition target data in different recognition processes, respectively; and

the integration recognition result outputting means is configured to integrate by identifying one object information based on respective object information that are the respective recognition result information acquired from the plurality of object recognition engines, and output the new recognition result.

86. The information processing device according to Claim 75, wherein:

the recognition result acquiring means is configured to acquire the recognition result information including object candidate information representing a candidate of an object recognized from the recognition target data by each of the plurality of object recognition engines, from each of the plurality of object recognition engines; and

the integration recognition result acquiring means is configured to identify object information that corresponds to each other in accordance with a predetermined standard in the respective object candidate information acquired from the plurality of object recognition engines, and output as the new recognition result.

97. A computer program comprising instructions for causing an information processing device to realize:

a recognition result acquiring means for acquiring respective recognition result information outputted by a plurality of recognition engines executing different recognition processes on recognition target data; and

an integration recognition result outputting means for outputting a new recognition result obtained by integrating the respective recognition result information acquired from the plurality of recognition engines,

the computer program also comprising instructions for:

causing the recognition result acquiring means to acquire the respective recognition result information in a graph-structured or tree-structured data format common to the plurality of recognition engines, from the plurality of recognition engines; and

causing the integration recognition result outputting means to , when the respective recognition result information include information corresponding to each other in accordance with a predetermined standard, integrate each part of the respective recognition result

information so as to be related to each other based on the respective recognition result information and output in the graph-structured or tree-structured data format as the new recognition result.

~~10. The computer program according to Claim 9, comprising instructions for causing the integration recognition result outputting means to, when the respective recognition result information include information that correspond to each other in accordance with a predetermined standard, integrate the respective recognition result information and output as the new recognition result.~~

~~11.8.~~ An information processing method comprising:

acquiring respective recognition result information outputted by a plurality of recognition engines executing different recognition processes on recognition target data, the respective recognition result information being in a graph-structured or tree-structured data format common to the plurality of recognition engines; and

integrating , when the respective recognition result information include information corresponding to each other in accordance with a predetermined standard, each part of the respective recognition result information so as to be related to each other based on the respective recognition result information acquired from the plurality of recognition engines, and outputting in the graph-structured or tree-structured as a new recognition result.

~~12. The information processing method according to Claim 11, comprising:~~

~~integrating the respective recognition result information and outputting as the new recognition result, when the respective recognition result information include information corresponding to each other in accordance with a predetermined standard.~~