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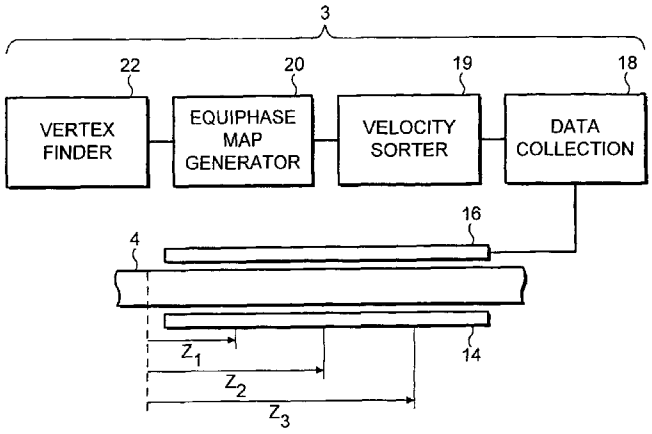
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(54) Title: SYSTEM AND METHOD FOR DETERMINING THE VELOCITY OF MIGRATING OBJECTS



(57) Abstract: An analysis system for and method of enabling determination of the velocities of migrating objects and also classifying migrating objects into groups having a common constraint. In one aspect the present invention provides an analysis system for and method of enabling determination of the velocities of migrating objects, the system comprising: a space-time map generator for generating a space-time map of points representative of the signal peaks of signals detected at a plurality of spaced positions; and a vertex finder for identifying at least one vertex from the space-time map, with a single vertex being identified for each group of objects having a common constraint and the velocities of the objects being determinable from the sets of points in the space-time map corresponding to the respective objects as fitted to the respective vertex. In another aspect the present invention provides an analysis system for classifying migrating objects into groups each having a common constraint, the system comprising: a space-time map generator for generating a space-time map of points representative of the signal peaks of signals detected at a plurality of spaced positions; and a vertex finder for identifying at least one vertex from the space-time map, with a single vertex being identified for each group of objects having a common constraint.

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