

METHOD AND SYSTEM FOR PERFORMING A PLANNING PROCESS OF A RAILWAY SERVICE

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ABSTRACT

Method for performing a planning process of a railway service comprising the steps of:

- 10 - acquiring (200), using sensors (300), train data relative to measured movement of trains along a railway track (302), and reference data relative to a reference timetable of trains trips;
- generating, with an elaboration unit (308), a reference three dimensional graph (20) including a three dimensional cylinder (21) and associating a reference Cartesian system
- 15 (XYZ) to the cylinder (21);
- calculating, with the elaboration unit (308), coordinates of history points and reference points for each train in the reference Cartesian system (XYZ) as a function respectively of said train and reference data, the coordinates of the history and reference points in a planar direction (XY) of the reference Cartesian system (XYZ) being function of a train
- 20 position corresponding respectively to said train and reference data, and the coordinates of the history and reference points in a vertical direction perpendicular to the planar direction (XY) being function of a time associated with said train position respectively in the train and reference data, the coordinates of each history and reference points corresponding to a point belonging to the surface of the cylinder (21);
- 25 - displaying on a display unit (310) the three dimensional graph and the history and reference points;
- planning, with a control unit (304), the railway service as a function of the data displayed on the display unit (310).

30 Figure 3