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(54) Title: METHOD AND SYSTEM FOR BUFFER MANAGEMENT BASED ON PREDICTIVE ANALYTICS

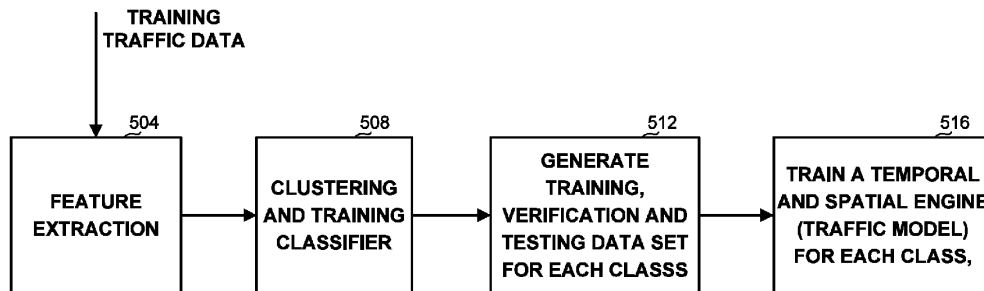


FIG. 5

(57) Abstract: A method for managing traffic in a communication network and computer program product, the method comprising: receiving a plurality of traffic units to be transmitted by a switch through a port, the port having an associated queue; extracting features from the plurality of traffic units; providing the features to a first engine, to obtain a class for the plurality of traffic units; using a second engine associated with a traffic model for the class, obtaining an indication of a predicted traffic volume for the class for a future time and for the physical location of a switch that transmits the plurality of traffic units; allocating a queue of a size corresponding to the indication of the predicted traffic volume; and assigning the at least one traffic unit to the buffer.



WO 2022/238998 A1