

a similar bottleneck from the previous time period (n-1), and neither of the bottlenecks is a part of any bottleneck complex, and if the similar bottleneck is part of a persistent bottleneck set, then the similar bottleneck is also similar to all other bottlenecks in the set, then group the bottlenecks into the same persistent bottleneck set, and proceeding with preceding time periods up to a defined limit. 5

25. The method of claim 21, wherein the output data enables traffic performance metrics from the persistent bottleneck sets, the traffic performance metrics including prediction of bottleneck duration, prediction of recurring bottlenecks on the same day, and modeling of conduct and impact of maintenance activities performed on links in the roadway network in conjunction with known speed conditions to improve one or more of commuter time, worker safety, and cost management. 15

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