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(54) **SYSTEM AND METHOD FOR TRAFFIC
FLOW CLASSIFICATION**

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(57) **ABSTRACT**

A method and system for classifying a traffic flow. The method including: initializing a database with packet parameters; identifying a new flow; determining packet parameters associated with the new flow; determine whether the packet parameters match any previously stored packet parameters in the database; if the packet parameters match, determining an application classification for the traffic flow. The system including: a server profiling module configured to initialize a database; and an application module configured determine packet parameters associated with the new flow, determine whether the packet parameters match any previously stored packet parameters. A method and system for detecting a change in the classification of an application and/or content in a traffic flow. The method includes determining a change in the application behavior; detecting a change in a content category of the application, providing an updated traffic action based on the detected change.

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