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(57) Abstract :
The present invention discloses a system for providing stable transmission control unit for congestion control in IoT environment. The system includes, but not limited to, at least one processing unit; a non-transitory computer-readable media storing instructions which, when executed by the one or more processors, cause: at least one processing unit; non-transitory computer-readable media storing instructions which, when executed by the one or more processors, cause: compute ECD factor based on available bandwidth, round trip time and queue size of the most congested channel on the path; wherein the round trip time is describe as the time it takes by a package to make its journey from source to destination and back; wherein the bandwidth is calculated using RTT and packet size; and wherein the queue size of the most congested link is estimated with the help of RTT, RTTmin and cwnd.

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