

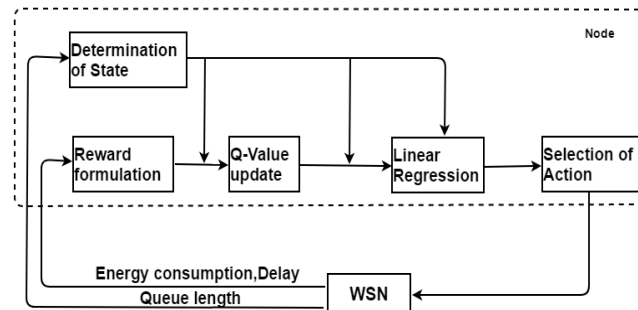
# Determining node duty cycle using Q-learning and linear regression for WSN

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# Problems & Ideas

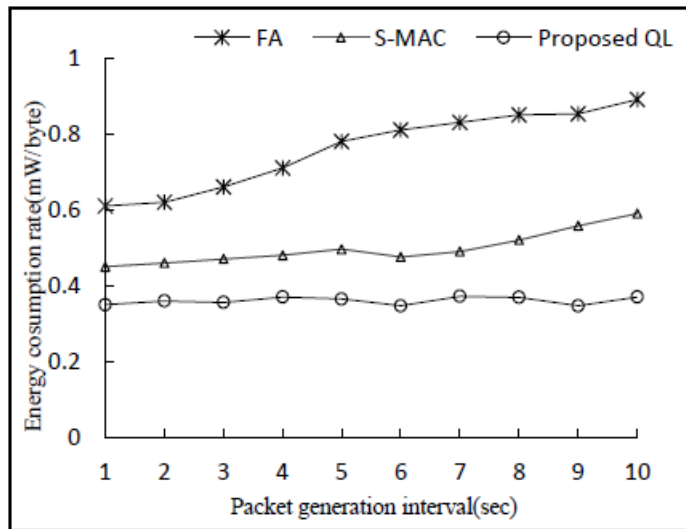
- Problems of Duty Cycle Decision for wireless sensor network
  - Data forwarding interruption problem
  - Continuous value selection problem
- Ideas: Make decision by Q-learning and Linear Regression
  - Evaluating value by Q-learning
  - Using Linear Regression for Functional Approximation



**The structure of the proposed scheme.**

# Main Contributions

- The proposed scheme outperforms S-MAC and FA in energy consumption rate



- The proposed scheme has less latency than S-MAC and FA in tree topology

