Abstract

Wireless Sensor Networks (WSN) is made by an oversized variety of networked sensing nodes. It's rather advanced, or perhaps unworkable, to model analytically a WSN and it always results in simple analysis with restricted confidence. Besides, deploying test-beds supposes a large effort. Therefore, simulation is important to check WSN. However, it needs acceptable model supported solid assumptions and an appropriate framework to ease implementation. Additionally, simulation results admit the actual state of affairs below study (environment), hardware and physical layer assumptions, that aren't typically correct enough to capture the behavior of a WSN, thus, make vulnerable the quality of results. However, a careful model yields to measurability and performance problems, attributable to the massive variety of nodes, that betting on application, got to be simulated. Therefore, the exchange between measurability
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and accuracy becomes a serious issue once simulating WSN. During this survey an acceptable model for WSN simulation is introduced, at the side of tips for choosing an acceptable framework. Additionally, a comparative description of obtainable tools is provided.

References

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Index Terms

Computer Science

Wireless

Keywords

wireless sensor networks simulators ns2 omnet j-sim