

Node Localization in MIMO-WSN Using Adaptive mutation Arterial Bee colony

CHAPTER III METHODOLOGY

- 3.1 Introduction
- 3.2 **General Methodology**
- 3.3 Conceptual Framework
 - 3.3.1 Problem Formulation
Identification of problem statement for localization in WSN-MIMO (wireless sensor network in multi input multi output)
 - 3.3.2 **Distance estimation process**
 - 3.3.3 Implementation Performance Evaluation of Existing Localization techniques
 - 3.3.4 Design and implementation of proposed AMABC Algorithm
 - 3.3.5 Localization Steps
 - 3.4.6 **Localization in NLOS**
- 3.4 **Simulation Design (stages of research) and Comparative Experiments**
- 3.5 Simulation Model
 - 3.5.1 Path Loss Prediction Model
 - 3.5.2 **Node Model**
 - 3.5.3 **Network Model**
 - 3.5.4 **Mobility Models** (*focus on* Random Based Mobility Models)
- 3.6 Performance Evaluation Metrics
 - 3.5.1 Evaluation of proposed AMABC Localization Algorithm
 - 3.5.2 **Localization Accuracy Metric**
- 3.7 Complexity Analysis
- 3.8 Summary

***Note :the red color that mean can be short (one paragraph)**