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**A Study on Techniques/Algorithms used for Detection and Prevention of Security Attacks**

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**Abstract**

In this paper a detailed survey is carried out on the taxonomy of Security Issues, Advances on Security Threats and Countermeasures ,A Cross-Layer Attack, Security Status and Challenges for Cognitive Radio Networks, also a detailed survey on several Algorithms/Techniques used to detect and prevent SSDF(Spectrum Sensing Data Falsification) attack a type of DOS (Denial of Service) attack and several other Network layer attacks in Cognitive Radio Network or Cognitive Radio Wireless Sensor Node Networks(WSNN’s) to analyze the advantages and disadvantages of those existing algorithms/techniques.

**Keywords:**

Cognitive Radio Networks (CRN); SSDF; DOS; WRSNN’s; Cognitive Radio Wireless Sensor Node Networks (CRWSNN’s);

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