

Thesis/Project Proposal

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| Name | WSN Security: Reactions to WSN attacks |
| Contacts | Luigi Pomante <luigi.pomante@univaq.it> Walter Tiberti <walter.tiberti@graduate.univaq.it> |
| Type | Implementation, Research |
| Keywords | WSN, Intrusion Detection System, Security, Reactions |
| Description | <p>When an attack targeting a WSN has been detected, the network administrators have to provide a fast and effective response (i.e. <i>incident response</i>) in order to avoid collateral damage. In this context, this work aims to:</p> <ol style="list-style-type: none">1) Research the state of art for WSN-specific attacks2) Provide a set of possible reactions for each attack found3) Implement the reactions on TinyOS/Contiki platform4) Validate the reactions and evaluate the performance (in terms of blocked attacks rate and the delay from attack detection to attack block) |
| Expected Duration | 3-4 months |
| References (Online) | <p>[1] https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&ved=2ahUKewihqvi3-ZDiAhVBr6QKHQFLCugQFjADegQIARAC&url=https%3A%2F%2Fpdfs.semanticscholar.org%2F24c0%2F8bd2641c7ed65cae36cea7be6507c2ac3a17.pdf&usg=AOvVaw2VEbWBzXZNWRqiiiov7hABm</p> <p>[2] https://www.researchgate.net/publication/326199312_Classification_of_Attacks_on_Wireless_Sensor_Networks_A_Survey</p> |
| References (Attached) | |