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1. REPORT DATE *(DD-MM-YYYY)*	2. REPORT TYPE	3. DATES COVERED *(From - To)*
03/26/2020	Master's Thesis	Sept 2018 - March 2020

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Wireless Sensor Network Optimization for Radio Tomographic Imaging

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5b. GRANT NUMBER

5c. PROGRAM ELEMENT NUMBER

6. AUTHOR(S)
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5d. PROJECT NUMBER

5e. TASK NUMBER

5f. WORK UNIT NUMBER

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14. ABSTRACT
Many methods to optimize the performance of radio tomographic imaging systems have been explored, but little work that focuses on the sequence of transceiver reports can be found in the body of literature. This thesis provides an exploration of the effects from attempting to optimize the transmission sequence in a wireless sensor network by creating a metric to quantify the value of the information a transceiver will report and using it to develop a dynamic, utility-driven, token passing process.

15. SUBJECT TERMS
Radio tomographic imaging, wireless sensor networks, optimization, node selection

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
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