Machine Learning Algorithms for EM Wave Scattering Problems

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*Abstract –* This is the abstract.

*Index Terms – index term 1*

# INTRODUCTION

## Task Motivation

The task motivation.

## Problem Specification

The problem specification. [1]

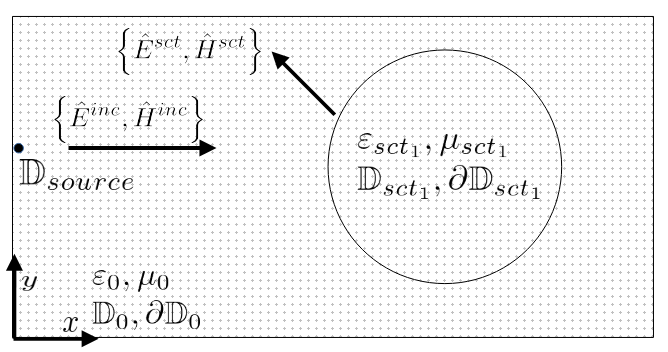


Fig. 1 Problem Illustration. A single source emitting incident waves is located at a fixed x-axis location on the left-hand side of the scatter. Material values are complex valued, frequency-dependent permittivity (ε) and permeability (μ). Background points indicate discretization.

# Review & Analysis of Prior Work

## Existing approaches and their related use with ML

## Combined/Hybrid Methods

## Culs-De-Sac

# Relation of prior work to project problem

# Conclusion

This is the conclusion.

References

[1] C. Brennan and K. McGuinness, ‘Site-specific Deep Learning Path Loss Models based on the Method of Moments’. arXiv, Feb. 02, 2023. doi: 10.48550/arXiv.2302.01052.

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