
School of Electronic Engineering

# CB54: Machine Learning Algorithms for EM Wave Scattering Problems

## Appendix A: Literature Survey

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# Declaration

I hereby declare that, except where otherwise indicated, this document is entirely my own work and has not been submitted in whole or in part to any other university.

Signed: Anthony James Mc Elwee Date: 2023/08/20

# Preface

This is the summary of changes to the Literature Review as submitted in January 2023.

- Minor corrections transforming the word “scatter” to “scatterer” were required.
- The problem specification of the project was changed from the Transverse Magnetic Scalar 2D problem to the Transverse Electric Vector problem. This is not reflected in the Literature Review due to time and space limitiations. Instead please refer to the final IEEE conference style paper for the final problem specification.
- Minor changes to two neighboring sentences were required on page two where the words “matrix inversions, often” was changed to “matrix inversions or” and the words “accelerate the matrix inversions by Fast” was changed to “accelerate the matrix multiplications by Fast”.
- No other changes were required. Although many more references and sources were recovered during the duration of the project, most of these have been referred to in the Project Research Log, the main IEEE conference style paper and the various other appendices.