

Paper overview: Using Machine Learning for the estimation of Added Wave Resistance

Pablo Canada Pereira

February 3, 2021

Abstract

1 Introduction

2 Theoretical background

2.1 Added wave resistance

2.1.1 *Numerical methods*

2.1.2 *Semi-empirical methods*

3 Methodology

4 Results

4.1 Comparison of NN-regressor with DTU tool

4.2 Comparison of NN-regressor on extended database

4.3 Comparison with experimental results

5 Implementation of NN-regressor on DESMO

6 Summary and conclusions