

Article title: **From ENC data to sea-bottom models: Kriging approaches for the Bay of Pozzuoli**

Special Issue of Acta IMEKO

March 7, 2021

Dear Editor,

I would like to submit the manuscript entitled "*From ENC data to sea-bottom models: Kriging approaches for the Bay of Pozzuoli*" by Emanuele Alcaras, Claudio Parente and Andrea Vallario to be considered for a publication as an extended version of our paper "*Kriging interpolation of bathymetric data for 3D model of the Bay of Pozzuoli (Italy)*" presented at the **2020 IMEKO TC-19 International Workshop on Metrology for the Sea** for publication on ACTA IMEKO Journal.

The paper aims to analyse kriging approaches for depth data concerning the Bay of Pozzuoli, with particular attention on the role of semi-variogram models for Ordinary and Universal kriging.

In the following lines are reported the major points of extension of this article:

- Title and abstract have been totally revised;
- All the figures are completely new;
- The selected dataset includes the old one, but is more extended;
- 21 references out of 29 have been used from the old conference paper, however the current version of the manuscript presents a total number of 64 references;
- In a separate file, namely *IMEKO – Alcaras Parente Vallario Changes*, all the differences between the conference paper and this manuscript are shown, particularly the green highlighted lines are the same as the conference paper.

The article has been strongly restructured, particularly a substantial extension, more than 30 % of the conference paper, has been introduced.

We declare no conflict of interest associated with this publication.

As a corresponding author, I confirm that the manuscript has been read and approved for submission by all the named authors.

Best Regards,

Emanuele Alcaras