The presented paper, titled **“A sensor data fusion-based locating method for large-scale metrology”**, is an extended version of the conference paper “A sensor data fusion-based locating method for reverse engineering scanning systems” presented at *2019 II Workshop on Metrology for Industry 4.0 and IoT - MetroInd4.0&Iot*.

The following list shows the major points of extension compared to the conference paper.

* Introduction (Section 1):

This section presents an in-depth analysis of the solutions reported in the scientific literature to digitalise large objects. Furthermore, information on commercial solutions are also introduced.

* The Handling device (Section 5):

The prototype of the proposed handling device is described in the Section 5. The prototype has been designed and built to validate the results obtained through the simulations.

* Validation (Section 6):

The validation phase is presented in the Section 6. The experimental set-up is described, and the results are reported. The simulation errors are compared to the validation errors.