



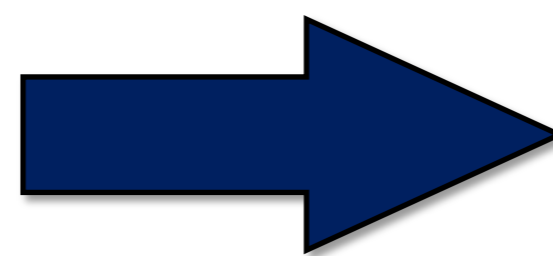
Robotic Finishing Platform

Project Motivation & Objectives

Assessing human skills in surface finishing is important to understand the significance of force-sensing

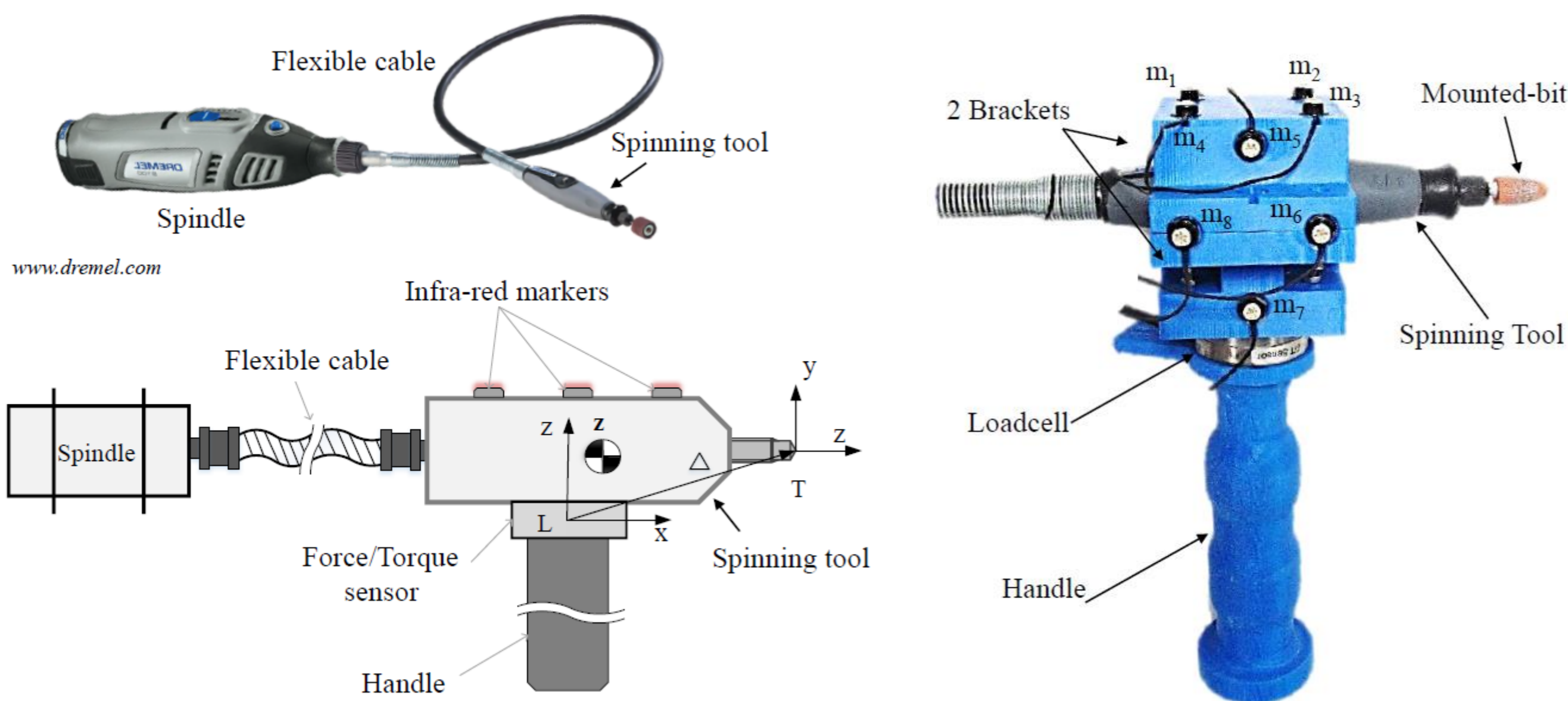


Transfer from human to robot

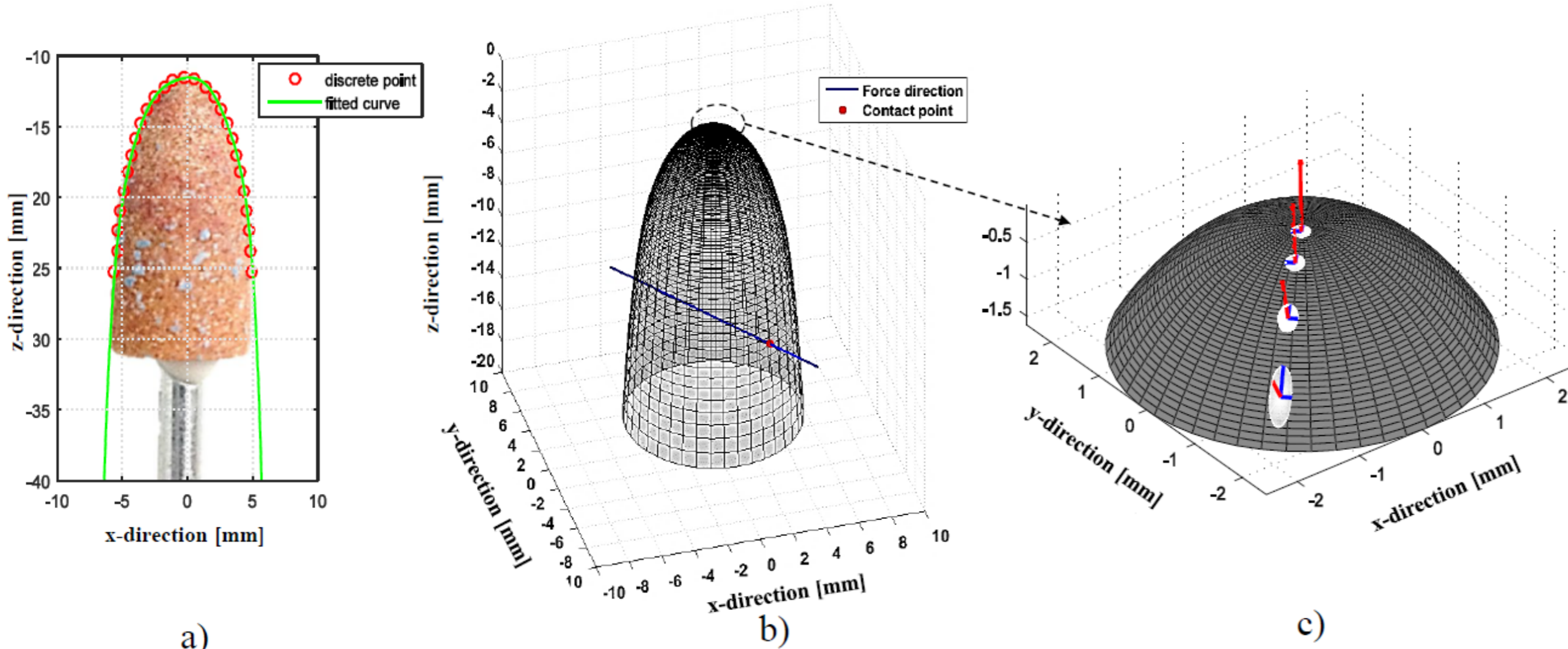


Methodology

Design and experimental setup

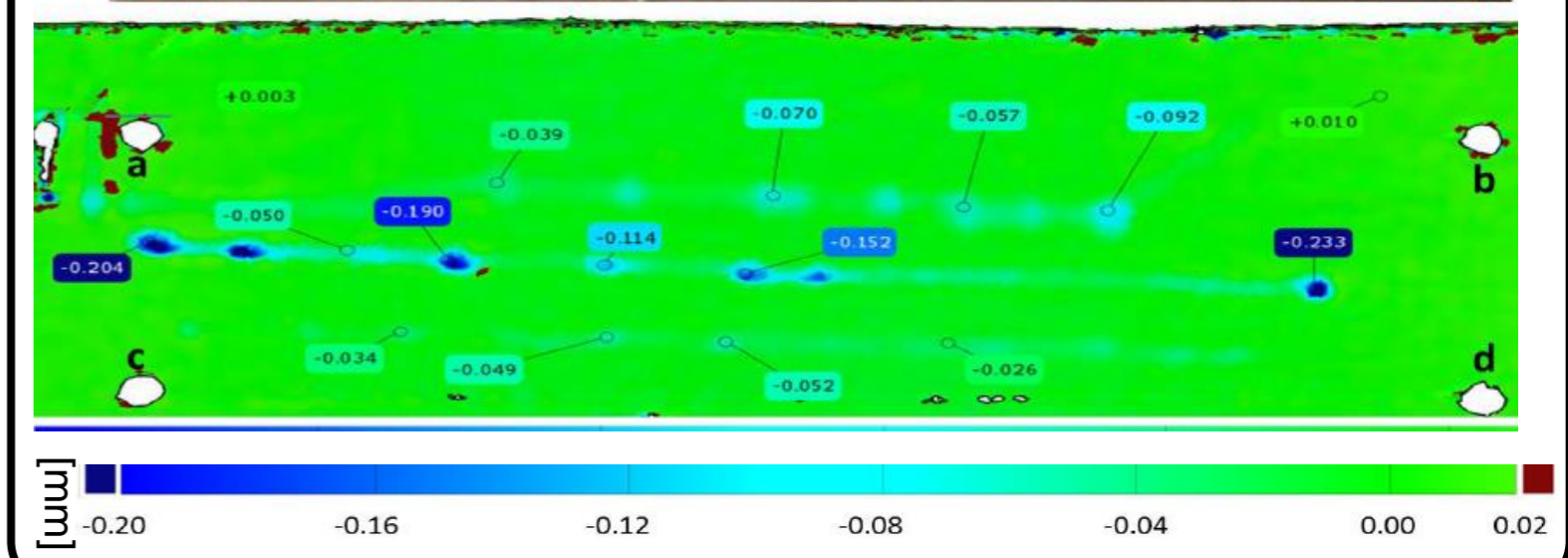
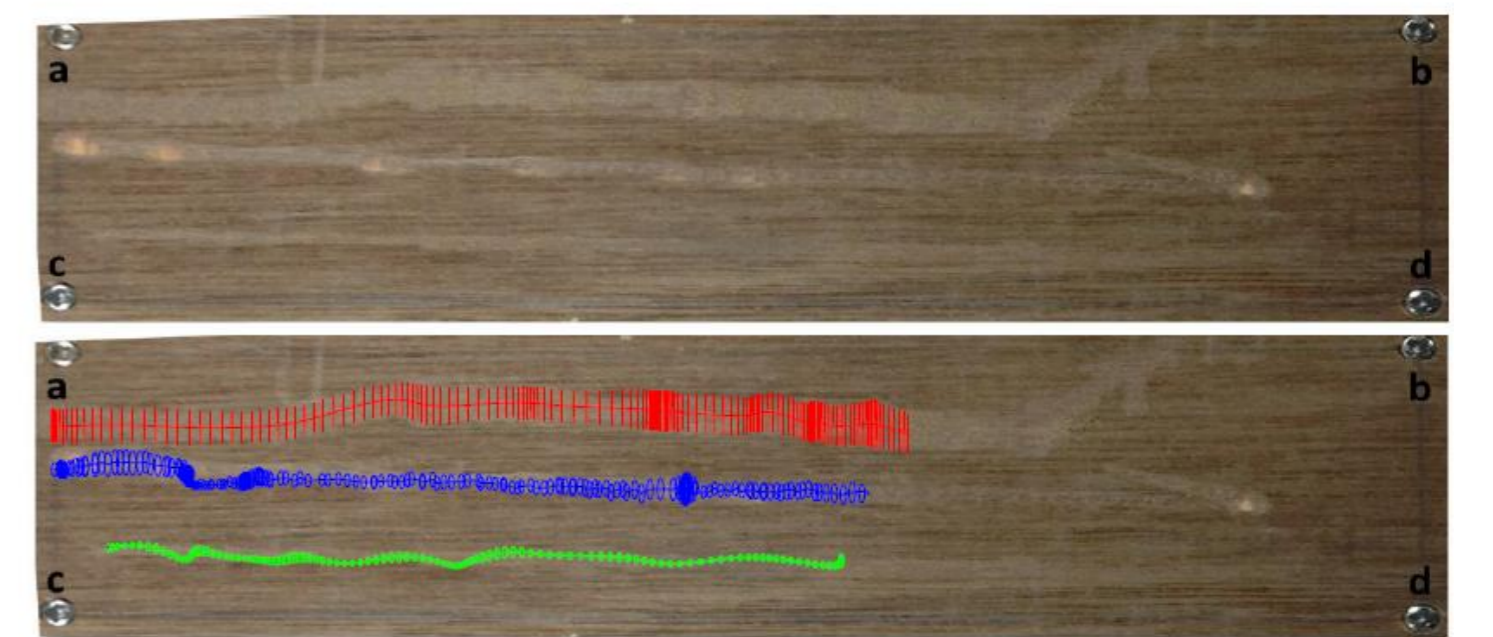
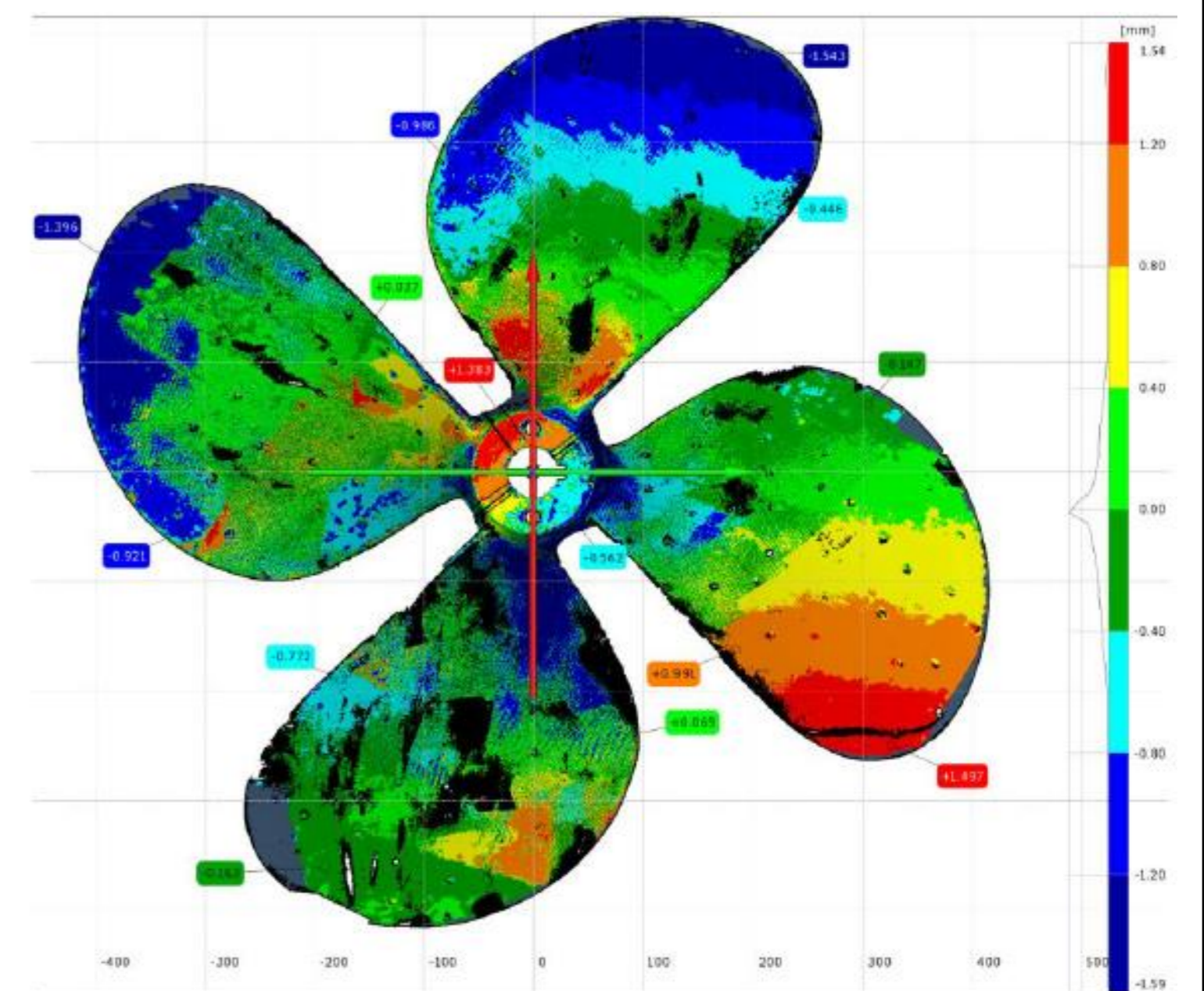


Contact estimation



Results

GOM ATOS III



References

Scientific contributions

- D. Campolo, G.H. Phan, A. Hussain. Instrumenting tools for monitoring interaction dynamics during surface finishing (2015). Patent pending
- G.H. Phan et al., "Characterization of Impedance Rendering with a Cable-Driven Agonist-Antagonist Haptic Device," in *International Conference on Control, Automation, Robotics and Vision*, Singapore, December, 2014.
- G.H. Phan, "Preparation for capturing human skills during tooling tasks using redundant markers and instrumented tool," *8th Regional Conference on Mechanical and Manufacturing Engineering*, Yogyakarta, Indonesia, Nov. 2015.

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