

## Cover letter

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Dear Editor-in-Chief,

We wish to submit a research article entitled “Mobile manipulator control through gesture recognition using IMUs” for consideration for publication in Acta IMEKO. Prior, a short version of this paper was presented at International Symposium on Measurement and Control in Robotics (ISMCR), Belgium, 2018.

In this paper, we present and evaluate a framework for gesture recognition using four wearable Inertial Measurement Units (IMUs) to indirectly control a mobile robot. A novel algorithm based on Online Lazy Neighborhood Graph (OLNG) search is used to recognize and classify the gestures online. A software framework is developed to control a robotic platform through integrating our gesture recognition algorithm with Robot Operating System (ROS), which is in turn used to trigger predefined robot behaviors. A video showing our gesture recognition algorithm is available online at <https://youtu.be/uLnMSN46dl>.

As requested following are the details of the modifications to the previously presented paper.

1. Modified *Title*.
2. Fully revised *Related Work* with more references.
3. Addition of description about the integration of gesture recognition with a robotics platform using ROS as a middleware in *Approach*.
4. Addition of description of the interaction between the robotic platform and the recognized gesture.
5. Updated *Results* and *Conclusion* with the latest tests.

We would like to thank you for the opportunity to publish this paper in the special edition of the esteemed journal.

Sincerely,

Padmaja Kulkarni.