

Fisciano, Italy, October 15th, 2019

Dear Editor,

I submit the paper, whose title is “*Smart wearable devices for human exposure vibration measurements on two-wheel vehicles*”, for possible publication in Special Issue on ACTA IMEKO. The paper is co-authored by Marco Carratù, Vincenzo Paciello, Antonio Pietrosanto and Paolo Sommella.

It is an extended version of the paper entitled “*A wearable low-cost device for measurement of human exposure to transmitted vibration on motorcycle*”, published in the Conference Proceedings of the 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT (pp. 329-333).

The submitted Special Issue paper includes original work and it has not been submitted elsewhere for review or publication. The paper has been technically extended beyond the scope of the proceedings in some parts, detailed as follows:

- The title has been modified in accordance to the IMEKO guidelines.
- Abstract and introduction have been rewritten.
- Figures 2,4,5, and 6 are new.
- Two other comfort indexes have been introduced: Vibration Dose Value (VDV) useful to evaluate the comfort behaviour of the motorcycle on concentrated obstacle as bump and the acceleration signal auto-spectrum calculated in the frequency range of interest on different road surface.
- A new measurement setup was considered including a second accelerometer fixed to the vehicle body in order to compare the comfort indexes obtained with the wearable device.
- A new set of experimental tests with their results have been added into the experimental test section respectively in Tables 2-4.
- A new section IV for the discussion of the results has been added.
- The Conclusions were updated;
- The references have been updated; the conference paper is referenced as [19].

Best regards,
Marco Carratù

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