

Dear Editor

enclosed for your consideration is a research paper, entitled:

“Solar energy harvesting optimization for LoRaWAN-based pervasive environmental monitoring”

by Tommaso Addabbo, Ada Fort, Matteo Intravaia, Marco Mugnaini, Lorenzo Parri, Alessandro Pozzebon, Valerio Vignoli

The paper is the extended version of the one entitled “Pervasive environmental monitoring by means of self-powered Particulate Matter LoRaWAN sensor nodes”, presented by the authors at the 24th IMEKO TC4 International Symposium (IMEKO TC-4 2020), Palermo, Italy, September 14-16, 2020.

The paper has notably extended, adding a significant quantity of novel results. In particular, the following extensions have been added:

- The abstract has been rewritten to include all the new results
- A brand new Introduction written to better point out the tackled problem
- A Solar Energy Harvesting section has been added including new references
- Section V has been notably widened to include all the new characterization tests concerning the optimized energy harvesting system
- The Test and Measurement section has been widened to include the presentation of the data collected by means of field measurements
- The Conclusions section has been partially rewritten to include the new results.

All the changes from the original paper can be seen since they are marked with yellow color.

I declare that the authors of this paper have read and approved the final version submitted, and that the contents of this manuscript are not now under consideration for publication elsewhere.

Best regards,

A. Pozzebon