

Dear Editor

enclosed for your consideration is a research paper, entitled:

“Remote Video Monitoring for Offshore Sea Farms: Reliability and Availability Evaluation and Image Quality Assessment via Laboratory Tests”

by David Baldo, Gabriele Di Renzone, Ada Fort, Marco Mugnaini, Giacomo Peruzzi, Alessandro Pozzebon, Valerio Vignoli

The paper is the extended version of the one entitled “Reliability and Availability Evaluation of an Autonomous Remote Video Monitoring System for Offshore Sea Farms”, presented by the authors at the 2020 IMEKO TC-19 International Workshop on Metrology for the Sea, Naples, Italy, October 5-7, 2020.

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

- Abstract and Introduction have been widened to include all the new results;
- A novel experimentation concerning the analysis of image degradation due to different environmental conditions has been added;
- In order to describe the new tests and achieved results, 2 new sections have been added:
 - Section 6, EXPERIMENTAL SETUP, describes all the tests carried out providing detailed insights on the methodology and instrumentation employed for the experiments;
 - Section 7, TEST RESULTS AND DISCUSSION, aims at presenting the results of tests, discussing them in order to point out the main findings.
- Five new images, related to the tests and results, have been added;
- The Conclusions section has been integrated to include the new results;
- Acknowledgments have been included.

Moreover, an author, Gabriele Di Renzone has been added with respect to the conference paper, since he collaborated in the new experimentation described in this paper.

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

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