Università degli Studi di Catania

Dipartimento di Ingegneria Elettrica Elettronica e Informatica

Dr. Carlo Trigona

October 31, 2019

Dear Reviewers

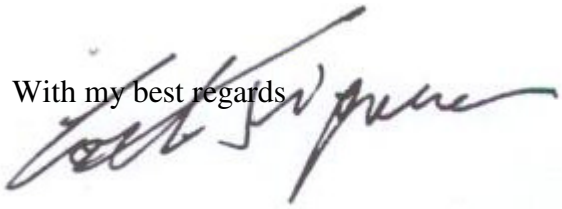
please find here the manuscript entitled "***An Integrated Circuit to null Standby by using energy provided by MEMS Sensors****"* that I, on behalf of all the co-authors, would like to submit for publication to ACTA IMEKO(Special Issue on ACTA IMEKO - MetroInd4.0&IoT 2019).
This paper reports the current stage of an activity which regards integrated solutions for "Zero-Energy Standby" method able to supply the power requested by the measurement equipment only when the appliance must be turned on.

In particular this manuscript is an extended version of the proceeding of MetroInd4.0&IoT 2019: *MEMS based Transducer for Zero-Energy Standby Application (see ref [23]),* where the strategy has been simulated assuming MEMS sensors.

The architecture proposed in this manuscript improves the state of the art and the proceeding paper (attached during the submission process), in particular in the extended version we present the realized prototypes, with simulations and experimental characterization of both the integrated devices (MEMS and conditioning circuit Zero-Energy Standby).

I hope hearing from you soon and I will be at your disposal whatever additional information you would need

With my best regards



viale A.Doria 6, 95125 Catania Italy Tel. +39-095-7382301 Fax +39-95-7387945 C.F. e P.IVA 02772010878