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EXTENSION BEYOND THE PROCEEDINGS PAPER

Design and Characterization of a Stand Alone Merging Unit

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The manuscript submitted is a substantially extended version of the IMEKO TC10 2019 Conference Proceedings paper.
The manuscript submission now provides:

1. A better organized description of the previously presented SAMU.
2. A new section with the signal conditioning stage.
3. A new section with the experimental results.
4. A deep characterization of the analog-to-digital converter is presented.
5. The characterization with voltages up to 110 V and currents up to 6 A and with high performance electrical calibrator is discussed.
6. The time synchronization was characterized.
7. The absolute phase synchronization was tested with a high performance calibrator for Phasor Measurement Unit calibration.

All the change to the proceedings paper are in red.

On behalf of the authors

Prof. Mario Luiso