Cover Letter

Symposium paper:

- XIX IMEKO TC-4 Symposium paper

Miroslav Kamenský, Karol Kováč, Gabriel Války: Model of Errors Caused by Discrepancies of Input Channels in Multiresolution ADC

Journal paper:

- paper proposed for Special Issue of ACTA IMEKO

Miroslav Kamenský, Karol Kováč: Identification of dominant error parameters in spectrum measured by TDEMI system

Changes:

1. Title was changed, author team was reduced.
2. Number of pages was extended from 6 to 7, number of words from 3194 to 4313.
3. The analytical cosine model of channel discrepancy was extended, i.e. influence of phase was included in the model of spurious spectral components. On the other hand, the analytical expression of model based only on rectangular pulses (REC model in the symposium paper) was omitted and only referenced.
4. An exact process of identification of error parameters was proposed and applied on experimental data. New procedure for channel switch points searching is presented as well as new algorithm for error parameters estimation.
5. The discrepancy identification method and improvements of pulse error model enabled better side by side comparison of experimental and theoretical results. Both spectra were plotted in the comparable form. Correlation coefficients proved suitability of the proposed pulse error model for dominant spurious components in the measured spectrum.
6. According to changes in paper content also figures, equations were changed.
7. References were modified.