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**Automatic system for statistical processing the result of phasor measurement units testing.**

An automatic system for processing the result of phasor measurement units testing was created. Block scheme and methods of testing was proposed. Application for viewing the results of automatic system operation was developed. Successful complex validation of methods, automatic system and application was achieved.

*Key words: Phasor measurement units testing, phasor data concentrator, real time simulation of electric energy system, processing of results, synchronization, phasor measurement units.*

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