

## **Microprocessor system for simulation of automatic control devices as a part of physical models of power systems.**

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The paper is concerned with an elaborated by the author range of means for implementation of mathematical models within a microprocessor-based system. It allows, in real time mode, to simulate automatic controllers, adjustment and protection gear, as well as to connect them with the digital-analog-physical complex (DAPC).

*Keywords: simulation, automatic voltage regulators (AVR), microprocessor-based equipment, STM32F4Discovery, MATLAB Simulink, Real Time Digital Simulator (RTDS), digital-analog-physical complex (DAPC).*