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REALIZATION AND COMPUTER SIMULATION OF REGULATING ALGORITHMS WITH TRANSPORT DELAY FOR PROGRAMMABLE LOGIC CONTROLLERS MODELS OF VEHICLES' RELATIVE MOTION

The main objective of the article is to present the approaches to software realization of transport delay on programmable logic controllers (PLC) and testing the synthesized systems using combined models, which include a simulation model of the controlled unit and virtual controller. As an example we considered the automatic control system with Smith predictor.

Keywords: transport delay, Smith predictor, regulator, transfer function, simulation model, SoftLogic-system, control program.

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