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PRACTICAL METHODS FOR SELF-TESTING OF IoT EMBEDDED SYSTEMS IN ADVANCED MANUFACTURING

Abstract of plenary report¹

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Abstract: Advanced manufacturing extends the scope of new challenges in validation of the Internet of Things (*IoT*) based embedded systems that control the manufacturing cells. The paper presents some approaches of self-testing oriented to keep the *IoT* systems in predictable stable state. The key technology of the discussed self-testing is simulation of the basic functions. The simulator generates some stimuli and compares the responses with some etalon or simulated results.

Key words: *IoT*-enabled manufacturing, simulation-based self-testing, XML stream, timing testing.

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