

**Averian, Alexandru,** *Component based systems testing with UML and incorporated contracts*

**Abstract:** Production of complex systems done by reusing prefabricated software and hardware components has proved it's efficiency by accelerating the development process, significantly reducing development time and costs. Generally, the components are tested in their production environment, and the test elements are eliminated before publishing the component. The goal of testing based on incorporated contracts is to equip components with test elements which allow testing in the environment in which they are being developed and also if they are integrated in the development of other systems.

**Keywords:** component-based systems, UML models, test components, test interfaces, design for test