

## **An agent based user interface evaluation using aspect oriented programming**

ADRIANA M. TARȚA, GRIGORETA S. MOLDOVAN and GABRIELA ȘERBAN

**ABSTRACT.** Human-computer interaction design has an essential role in the success or failure of a software product. The user interface reflects this aspect of the system. In this paper we propose a new alternative for evaluating user interfaces using an agent-based approach. The Intelligent Agents domain is an important research and development area in the field of Computer Science and of Artificial Intelligence, particularly [16]. It provides a new mechanism for problem solving and a new user-computer interaction method. In our proposal, based on task models (task trees), agents are used for monitoring and assisting users in interaction with the system. Task models [17] are used in the user centered design context in order to give valuable information about the sequence of actions the user must perform to accomplish his/her goals. In order to separate the agent from the evaluated software system, we use a recently developed programming paradigm, Aspect Oriented Programming [6].

BABEȘ-BOLYAI UNIVERSITY  
DEPARTMENT OF COMPUTER SCIENCE  
M. KOGALNICEANU 1  
400084 CLUJ-NAPOCA, ROMANIA  
*E-mail address:* adriana@cs.ubbcluj.ro  
*E-mail address:* grigo@cs.ubbcluj.ro  
*E-mail address:* gabis@cs.ubbcluj.ro