Title: Computing of Fault Tolerant Mobile Agents in Distributed Systems

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Abstract: The reliable execution of a mobile agent is a very important design issue to build a mobile agent system and many fault-tolerant schemes have been proposed. Hence, in this paper, we present evaluation of the performance of the fault-tolerant schemes for the mobile agent environment. Our evaluation focuses on the checkpointing schemes and deals with the cooperating agents. We derive the Fault Tolerant approach for Mobile Agents (FANTOMAS) design which offers a user transparent fault tolerance that can be activated on request, according to the needs of the task, also discuss how transactional agent with types of commitment constraints can commit. Furthermore this paper proposes a solution for effective agent deployment using dynamic agent domains.

Keywords: Checkpointing; Fault Tolerant; Mobile Agent; Network Management; FANTOMAS

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