ABSTRACT

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Intelligent Agents in Mobile Communications

Ojoade Francis Olabode

Mobile agents in the context of software engineering are software entities, components or objects with certain properties portrayed by agents. These properties to name a few are; autonomy, pro-activity, reactivity and maybe some form of intelligence. Being mobile means they (agents) can move within and between networks.

Mobile agents can be generated from mobile wireless handheld devices. This thesis focuses on an application for mobile agents that will benefit mobile users: the automatic recharging of a prepaid account. The implementation is based on Java 2 Micro Edition (J2ME) Platform. The JADE Agent platform is used with JESS reasoning engine.