

innovations

from the University of Vermont

TITLE: AKBRA – ADAPTIVE KNOWLEDGE-BASED RUN-TIME AGENTS

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DESCRIPTION: Coding of task specific run time code for remote devices has until now been mission specific and cumbersome to change. In addition, the small storage space on remote devices requires simple code, limiting the creation of more adaptive devices. AKBRA provides a multistage methodology for facilitating run-time code on a remote device quickly and flexibly when needed. In addition, it limits the constraints on the coding and on running the code in such devices. This methodology can be used in a variety of applications such as surveillance device deployment, including military and homeland security border control applications; tele-medicine for remote physician assistance and ambulance care; stock trading assistance; and traffic control.

ADVANTAGES: Current methods for managing remote devices have been task specific and unable to handle the variety and multitude of situations that would arise and need to be managed in a fully capable system. AKBRA provides the capability to expand remote systems from single to multi-task operations flexibly and quickly. In addition, the expediency and flexibility of this methodology reduces the costs of remote mission tasking.

PATENT STATUS: Patent pending

LICENSING STATUS: Worldwide rights available

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