

INVITED TALK

Task-Driven Computing in Pervasive Computing

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Abstract

An important goal of pervasive computing is to allow a user to continue working seamlessly as he or she moves from one environment to another. The Aura Project at Carnegie Mellon University is investigating a new approach to achieving this goal through the use of a novel new layer in systems architecture: the task layer. Tasks capture users' intentions at a high enough level of abstraction that they can be instantiated in different ways depending on the physical and computational resources at hand. In this talk I describe the Aura project, our current plans for task-driven computing, and the progress we have made thus far in carrying them out.