

Welcome

1. News

09/25/2003: Solar 1.0.5 is released for internal projects.

2. Overview

The pervasive presence of portable devices and wireless networks results an environment that is crowded, heterogeneous, and always changing. To succeed without distracting the user, pervasive-computing applications must be aware of the context in which they execute, and automatically adapt as that context changes. Solar is a software infrastructure supporting context collection, aggregation, and dissemination. Solar provides a small composition language, allowing applications to construct a graph of operators to compute desired context from appropriate sources. Solar implements a context-sensitive resource discovery mechanism to achieve flexibility, and improves the scalability by balanced distribution and reuse of operators. Solar uses automatic ACL propagation to limit access to context information and determine the level of trust in received context by applications. We are also studying the research issues of making authorization decisions using context received from Solar.