Ubiquitous computing aims to enable and support anywhere, anytime, context-aware applications. Sensing, interpretation and integration of events, behaviours and environmental states are key to the success of such ubiquitous systems. Over the past two decades, there has been a constant shift of sensor observation modeling, representation, interpretation and usage, namely from low-level raw observation data and their direct/hardwired usage, data aggregation and fusion, to high-level formal context modeling and context-based computing. It is envisioned that this trend will continue towards a further higher level of abstraction, allowing situation, activity and goal modeling, representation and inference, thus realizing the vision of ubiquitous computing.

The proposed workshop intends to bring together researchers and practitioners from relevant fields to present and disseminate the latest accomplished and/or ongoing research on Situation, Activity and Goal Awareness (SAGAware) and their novel application in ubiquitous computing. It aims to facilitate knowledge transfer and synergy, bridge gaps between different research communities/groups, lay down foundation for common purposes, and help identify opportunities and challenges for interested researchers and technology and system developers.

Workshop topics include, but are not limited to:

**Approaches, methodologies, methods and theoretical foundation**
- Context and situation modelling, representation and inference
- Goal and activity modelling, representation and recognition
- Modelling, representation and inference of the relationships between context, situations, activities and goals

**Technologies, mechanisms, tools and middleware**
- Transition from low-level SEB observations to high-level contexts, situations, activities and goals
- Goal, activity and situation composition and manipulation
- Goal, activity and situation storage, retrieval and management
- Service-based or agent-based middleware

**System, application, case study, use cases and evaluation**
- Generic system architecture or framework
- Application development methodology
- Real world application design, implementation and deployment
- Cased studies for novel goal-driven, situation-aware applications
- Use cases and evaluation of approaches, technologies and systems

Interested authors can submit Full Technical Papers with maximum 10 pages or Short Position Papers, mainly “work in progress” with maximum 5 pages, online at [https://www.easychair.org/conferences/?conf=sagaware2011](https://www.easychair.org/conferences/?conf=sagaware2011) by the submission deadline. All submissions should follow ACM Ubicomp format - templates at [http://www.ubicomp.org/ubicomp2011/templates.html](http://www.ubicomp.org/ubicomp2011/templates.html).

Accepted papers must be presented at the workshop and will appear in the ACM digital library and the supplemental proceedings. High-quality papers will be invited to be published in a special issue of the International Journal of Pervasive computing and Communications (IJPCC).