

## Third EvAAL Competition

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# EvAAL

## Evaluating AAL systems through competitive benchmarking<sup>1</sup>

*The EvAAL workshop will be held in conjunction with the AAL Forum, Sep 2013, Norrköping, Sweden (pending)*

**Abstract.** We are pleased to announce the third EvAAL Competition. EvAAL aims at bringing together academic and industrial research communities to work together on challenging and open problems in Ambient Assisted Living (AAL), with the purpose of evaluating different approaches and envisioning new research opportunities.

During the competitions, we will collect large datasets, collected in realistic environments (the living labs), that will be useful to the research community as benchmarks to simulate and test their solutions.

The competition includes three tracks and a final workshop:

*Track 1 on Indoor Localization and Tracking for AAL* to be held on the 1–5 July, 2013 at the Living Lab of the Polytechnic University of Madrid (ES)

*Track 2 on Activity Recognition for AAL* to be held on the 8–12 July, 2013 at the CIAMI Living Lab in Valencia (ES)

*Track 3 on Companion Robots for AAL* to be held on the 15–19 July, 2013 at DomoCasa Lab in Pisa (IT)

*EvAAL workshop* to be held in conjunction with the AAL Forum in September 2013, Norrköping, Sweden (<http://www.aalforum.eu/>).

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<sup>1</sup>An initiative supported by the AALOA community <http://www.aalooa.org> and organised by the universAAL project <http://www.universAAL.org>

## 1. The tracks

### 1.1. Track 1 – Indoor localization and tracking for AAL

Localization is a key component for achieving context-awareness. Recent years have witnessed increasing interest in location-based services and applications. In most cases, however, location information is limited by the accessibility to Global Navigation Satellite Systems (GNSS), which is largely unavailable in indoor environments. The purpose is supporting localization needs of AAL applications.

### 1.2. Track 2 – Activity recognition for AAL

The automatic and unobtrusive identification of user's activities is one of the challenging goals of context-aware computing. Real-time monitoring of human movements could be a useful tool for many purposes and future applications such as lifelog, healthcare or entertainment. The purpose is supporting activity recognition needs of AAL applications.

### 1.3. Track 3 – Companion robots for AAL

The use of robots in domestic environments as companions that assists elderly in their own home is a growing research field, and there are already very good examples in the robotics community of systems able to execute different tasks and complex actions. This track, new to the third year of EvAAL, aims at defining benchmarks for the integration of such robots with intelligent environments that provide user localization and situation detection. The purpose is facilitating human-robot interaction in AAL environments.

## 2. Participating in the competition

Please refer to the EvAAL web site at <http://evaal.aaloo.org/>.

### 2.1. Important dates

Deadline for submissions	March 5, 2013
Notification of acceptance	March 20, 2013
Camera ready deadline	April 30, 2013

## 3. Organizing committee

### 3.1. General co-chairs

- Juan Carlos Augusto (Middlesex university, UK)
- Francesco Furfari, (CNR-ISTI, IT)

### 3.2. Track 1 TPC co-chairs (indoor localization and tracking for AAL)

- Till Riedel (Karlsruhe Institute of technology, DE)
- Paolo Barsocchi (CNR-ISTI, IT)

### 3.3. Track 2 TPC co-chairs (activity recognition for AAL)

- Kaori Fujinami (Tokyo university, JP)
- Juan Antonio Álvarez García (University of Seville, ES)

### 3.4. Track 3 TPC co-chairs (companion robots for AAL)

- Paolo Dario (Scuola superiore S. Anna, IT)
- Rui Loureiro (Middlesex university, UK)