Special Issue for Recent Patents on Computer Science
Guest Editor: Prof. Saso Koceski, PhD

Recent Advances in Ambient Assisted Living

Aims & Scope:
This special issue will present the stand alone articles or reviews on recent advances in an emerging scientific discipline called Ambient Assisted Living. The focus of this issue will be on the methodologies, systems, tools and technologies for Ambient Assisted Living.

Description:
Major changes in the demographic and social structure are putting strong pressure on sustainability of health and social care, on labour participation, on quality of life for older people, persons with disabilities and persons with chronic diseases, and on national budgets in general. Therefore, development of efficient solutions that will provide an independent living has become a very important and challenging issue nowadays.

Ambient Assisted Living (AAL) is a scientific field that addresses this issue by creating better life conditions for the aged and for people in recovery, by minimizing hospital stays, by enabling independent life in a domestic environment, and by creating new commercial opportunities through the use of intelligent products and the provision of remote services including care services. It also supports improved social connections and accessibility to the external world.

AAL integrates information and communication technologies, and sensors into the living space to enable context awareness and to create safer living environments. With the integration of a set of technologies, AAL environment becomes more complex. In order to fully exploit the potential of AAL solutions, acceptance and usability issues need to be considered, especially for older users, who have specific needs and requirements regarding usability and acceptance issues.

Currently, AAL solutions are considered to be in the advanced research phase of its life cycle, and are expected to transition soon to industry and then to commercial markets. Therefore, this special issue aims to bring, for academics as well as industrial practitioners, an overview of the technologies, systems, applications, and standardization activities in AAL, and identify their opportunities and challenges.

Topics:
Topics of interest covered in this special issue include, but are not limited to:

- Home Applications for AAL
- Cloud and mobile solutions for AAL
- E-health, telemedicine and tele-monitoring for AAL
• Sensing and alarming technologies for AAL
• Network and system architectures for AAL
• Security and privacy issues in AAL
• Healthcare information processing for AAL
• Medical devices for AAL
• Standardization protocols for AAL

**Keywords:** Ambient Assisted Living, Cloud and mobile solutions, E-health, telemedicine and tele-monitoring, Network and system architectures, Medical devices, Standardization protocols.

**Timeline:**

1. Deadline for abstracts submission: **01.09.2014** (abstracts should be send to: **saso.koceski@ugd.edu.mk**)
2. Deadline for full paper submission: **01.10.2014**
3. Peer Review Due: **November 2014**
4. Revision due: **December 2014**
5. Final decision notification: **December 2014**
6. Final manuscripts due: **December 2014**