

Call for Papers

IEEE Transactions on Human-Machine Systems Special Issue on “Ambient Assisted Living – sensors, methods and applications”

This special issue on Ambient Assisted Living (AAL) focuses on the use of information and communication technologies (ICT) to support a person’s activities of daily living (ADL) thus allowing the person to remain independent for a longer period of time. AAL systems range from simple systems such as reminder systems to sophisticated smart environments. A smart home can monitor and assist a person with ADLs by integrating sensors embedded in the environment that can extract information pertaining to the person’s health and well-being. Sensing technology can be embedded in objects, in the environment or worn on the person. Sensor data are analysed to recognise and track activity and to infer the person’s physical and/or cognitive status.

Topics of interest include but not limited to

- Objects, devices and environments that embody ambient intelligence
- Natural and multimodal interaction styles and user interfaces
- Design and evaluation of interaction in AAL systems
- Human behaviour understanding
- Human activity recognition
- Interaction with the smart home (wearable, gesture recognition, affective computing)
- Interaction with social robots
- Context models and context factors
- Adaptive architectures, symbiotic systems
- User experience and user experience factors (privacy, trust and acceptance)
- Ambient intelligence applications (e.g., assisted living, future shopping)
- Large scale ambient contexts (e.g., intelligent buildings, urban public spaces, smart cities)

Important Dates:

Paper submission due date	March 1, 2014
Completion of first round of reviews	July 1, 2014
Revised manuscript due date	September 1, 2014
Final decision notification	October 1, 2014
Final version of the manuscript due	December 1, 2014

Papers should be submitted to <http://mc.manuscriptcentral.com/thms> with a cover letter including the statement “This manuscript is submitted for the special issue on ambient assisted living”. For detailed submission information, please refer to “Information for Authors” at <http://www.ieee-smc.org/publications/thms-info-for-authors.pdf>

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