3.37 Activity Montitoring from Ambient Sensors

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Corporate Sponsorship Program

See Section 4 of the present document.

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NA

Functional description

We have developed several algorithms related to the analysis of activities from ambient sensors. These algorithms allow the identification of recurrent activity patterns and the detection of changes in these activity patterns. Ambient sensing represents a challenge in terms of sensor types and configurations: ambient sensors can measure different types of information and work at different scales and precisions. This heterogeneity has been addressed by developing a sensor abstraction layer that allows for transversal comparisons between activity levels estimated in different environments.

Innovative aspects

- Detection of abnormal activity patterns
- Sensor abstraction layer
- Visualisation of activity patterns

Commercial application examples

- This solution is currently used by our industrial partner to remotely monitor elderly people

More information

Ambient sensing has been addressed during the CTI funded project: DomoCare - A new Home Care Preventive Protocol.

Software & IPR status

The Software is fully owned by our industrial partner. We have acquired a significant expertise in working and mining ambient sensor data that can be applied to any scenario involving ambient activity sensing.