ICOST2006
Smart Homes and Beyond

After three successful editions held in France (2003), Singapore (2004), and Canada (2005), ICOST2006 aims to continue to develop an active research community dedicated to explore how Smart Homes and Health Telematics can foster independent living and offer an enhanced quality of life for ageing and disabled people. The conference will present the latest approaches and technical solutions in the area of Smart Homes, Health Telematics, and enabling technologies. Technical topics of interest include, but are not limited to:

- Intelligent Environments
- Tele-Assistance and Tele-Rehabilitation
- Medical Data Collection and Processing
- Personal Robotics and Smart Wheelchairs
- Human-Machine Interface
- Context Awareness
- Ambient Intelligence
- Autonomous Computing
- Vision
- Wearable Sensors
- Integrated micro-nano Systems
- Tele-Assistance and Tele-Rehabilitation
- Home Health Monitoring
- Social / Privacy
- Security Issues
- Middleware Support for Smart Home and Health Telematic Services
- Modeling of Physical and Conceptual Information in Intelligent Environments

Smart Homes are environments with computers, appliances, and sensors that enable people to perform tasks by offering unprecedented levels of access to information and assistance from computer technology. Health Telematics uses networks and telecommunications to provide, within the home environment, health services, expertise and information. It radically transforms the way health-related services, including diagnosis and therapy, can be created and delivered. Nowadays networks, microprocessors, memory chips, smart sensors and actuators are faster, cheaper and smaller than ever.

Current advances in such enabling technologies coupled with evolving care paradigms allow us to foresee novel applications and services for improving the quality of life for ageing and disabled people both inside and outside of their homes.

Themes

Each year, ICOST has a specific flavour. ICOST2003 focused on usability. The theme was “Independent living for persons with disabilities and elderly people”. The theme for ICOST2004 was “Towards a Human-Friendly Assistive Environment” and for ICOST2005 was “From Smart Homes to Smart Care”. This year the conference has the theme “Smart Homes and Beyond”. This focuses on promoting personal autonomy and extending the quality of life including smart services inside and outside of the home, inclusive smart home services, situation awareness, location-based services and mobility of service delivery.

There will be a combination of presentations including scientific papers, posters, exhibits and technology demonstrations. Prospective authors are invited to submit papers for oral presentation in any of the areas of interest for this conference. The initial submission for evaluation should be in the form of a 4-8 page paper. IOS Press will publish the proceedings as a volume of the Assistive Technology Research Series therefore their paper publication format should be used for submission. Further details relating to the length of the camera-ready submission will be given to authors of selected papers following the review process. Only papers written in English will be considered for review.

Important Dates

- Papers submission deadline: 20 January 2006
- Author notification date: 3 March 2006
- Camera-Ready Copy deadline: 3 April 2006