Leveraging Technology for Independent Living

The Independent Lifestyle Assistant ñ ILSA

A talk by Rand Whillock and Rose Mae Richardson of Honeywell Laboratories

Abstract

The Independent Lifestyle Assistant (ILSA) is a new Honeywell Laboratories 3-year project jointly funded by the National Institute of Standards and Technology (NIST) and Honeywell. ILSA is leveraging emerging technologies to develop an assistant to help elderly people remain in their homes longer. We will present a description of the ILSA objective and a high level overview of the ILSA functions. We will discuss some of the hurdles that stand in the way of a system like ILSA being successful. These hurdles include user acceptance issues, the diverse needs of multiple users, configuration management and privacy issues. We will also discuss some of the key technologies that are being used to address the hurdles. These technologies include human centered system design, communication infrastructures, machine reasoning, machine learning, automated configuration management tools, and data encryption technologies. The talk will conclude with a discussion of the key benefits of the ILSA approach.