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Embodied Conversational Agents Based Home Automation Using FPGA

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Abstract : Embodied Conversational Agents (ECAs) are used as virtual assistants that make the access easier, to information or help in performing complex tasks. Due to their high computational requirements ECA's are usually run on desktop computers, but with the recent development of hand-held devices both in hardware and software, it becomes necessary to move ECAs to that new mobile scenario. Thus an open-source based platform for developing ECA based interfaces on Android-equipped devices is developed. Various "intelligent" appliances such as cellular phone, air conditioners, home security devices, home theatres, etc., are set to realize the concept of a smart home. They have given rise to a Personal Area Network in home environment, where all these appliances can be interconnected and monitored using a single controller. Home automation involves introducing a degree of computerized or automatic control to certain electrical and electronic systems in a building. These include lighting, temperature control, etc. Likewise a simple home automation system is designed which contains a remote mobile host controller and several client modules. The client modules communicate with the host controller through a wireless device such as a 3G enabled mobile phone, in this case, an android based Smart phone.