



## research school of **informatics**

<b>Project Title:</b>	Intelligent Web User Interface Service for Remote Control
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<b>Department:</b>	Computer Science

### **Project Description:**

This project is concerned with developing technologies for remote control of devices over the internet. The internet has greatly enhanced information access globally. However, the internet also offers the potential for monitoring and controlling devices remotely. The devices can be household appliances or large scale processing plants. The aim of the project is twofold: the first is to develop a client/server architecture for supporting internet remote control and the second is to develop techniques for automatic generation of web user interfaces for monitoring and control applications. The architecture supports multi-user and multi-device connections as services, rather than bespoke connections. As different users may choose to control different machines, they need specific interfaces that are appropriate for their chosen applications. Therefore, it is important that the system is able to dynamically generate web user interfaces for individual users according to their requirements. A dynamically generated interface needs to display the relevant commands for the devices and to generate an appropriate control message when a command is selected.