

A Remote User Interface Framework for Collaborative Services Using Globally Internetworked Smart Appliances

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Abstract—This paper introduces a remote user interface framework which supports devices to share the UI of their applications with multiple smart devices. The smart devices are internetworked globally through RUI server. Besides that, a virtual IO function is provided to use mobile devices as remote controller. By thus, users can control home networked devices and applications by their smart devices with intuitive UI/UX. The proposed framework provides collaborative application model, APIs of sharing application view and virtual IO emulator.

(Pt9)Keyword—RUI framework, home network, collaborative, application, UI migration, Virtual IO



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