A Remote User Interface Framework for Collaborative Services Using Interconnected Smart Devices

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Abstract—This paper introduces a remote user interface framework which supports applications to share their view with remote smart devices. 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.

Keyword— RUI framework, home network, collaborative application, UI migration, virtual IO

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