Abstract

The goal of this study is to develop a real-time personalized digital name card typesetting system with seamless operability across various platforms. The system includes an authentication module, a template selection module, a text typesetting and merger module, a frame selection and merger module, and a QR code generator and merger module. The system authentication module proposes a potential authentication mechanism between server and client. The template selection module entails making a choice of template from the system-integrated gallery. The text typesetting and merger module proposes the methodology of automatic typesetting that is under fixed font and size restrictions. After it is merged with the last picture, the frame selection and merger module combines one of the pictures from the frame gallery. The QR code generator and merger module is essentially a flowchart of how the QR code is generated. A personalized name card is the end product of these modules. The prototype generation shows that the system works well as a name card typesetting system. Finally, the system shows promising potential for applications to the emerging and proliferating market of smart phones.


Index Terms

Computer Science  Information Sciences

Keywords

mobile device  name card  QR code  typesetting  smart phone