Abstract

This paper presents an automatic museum guide system that provides both interactive guidance for exhibition and a NFC based location navigation. It is well known that NFC is a kind of short distance communication for portable terminals such as smartphones and tablet devices. The communication area of NFC is limited in a narrow area; therefore, NFC may be used to locate the position of the area. To realize the automatic guidance and navigation, we present a new data architecture to contain the location information, and an evaluation function to calculate the optical exhibition candidates for the visitors. The feature of the function is considering the popularity of the exhibition and movement distance between the exhibition spots. To implement the service, we developed an application to support editing the map, and create the map data for the portable terminals. It is confirmed that the system provide a good performance based on the experiment in museum.

References

Museum Navigation based on NFC Localization Approach and Automatic Guidance System

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Index Terms

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