DEVELOPMENT OF CAMPUS SPACE NAVIGATION AND GUIDE SYSTEM

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Abstract

For larger enterprises usually occupying vast areas, visitors usually need to take long time to reach the objective location in an unfamiliar environment. SQL Server, ASP.net, PDA, GPS, Papago Sdk, wireless communication and windows environment are used in this study to develop "Space Navigation and Guide System". The system integrates personnel and space information for the campus. When related data are input, the system will list all matched faculty information. It will navigate to the entry of the building where the chosen faculty located by GPS. The system will guide to exact floor and room by WiFi system inside building. This can significantly save the exploring time of the visitor, improve the space service and promote the enterprise image. User can use browser to preview 3D animation for the interesting spots. This can help visitors to become familiar the new environment before their visit.

Keyword：GPS, WiFi, database, PDA