

Social Network Based Decision Support System for Smart U-Parking Planning

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Abstract : The aim of this study was to build 'Ubi-Net', a decision-making support system for systematic establishment in U-City planning. We have experienced various urban problems caused by high-density development and population concentrations in established urban areas. To address these problems, a U-Service contributes to the alleviation of urban problems by providing real-time information to citizens through network connections and related information. However, technology, devices, and information for consumers are required for systematic U-Service planning in towns and cities where there are many difficulties in this regard, and a lack of reference systems. Thus, this study suggests methods to support the establishment of sustainable planning by providing comprehensive information including IT technology, devices, news, and social networking services(SNS) to U-City planners through intelligent searches. In this study, we targeted Smart U-Parking Planning to solve parking problems in an 'old' city. Through this study, we sought to contribute to supporting advances in U-Space and the alleviation of urban problems.

Keywords : design and decision support system, smart u-parking planning, social network analysis, urban engineering

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