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Abstract
In the related researches, some of them provide mobile learning on PDA devices, however, the computation tasks are performed on an internet server. For mobile learning users, the internet service may not be provided in some areas. In this study, a plant search system with artificial intelligence on PDA devices is developed.
In this study, a plant search system with artificial intelligence on PDA devices is developed. This fuzzy sets define the degree of membership of each characteristic. But in order to figure out the relationship between the characterics of leaves clicked by users and that of other leaves, fuzzy value is utilized. Based on all kinds of characteristics of leaves, this research constructed a mobile learning system allowing users to input all the observed attributes of leaves on PDA without knowing the name of the plant. According to all the experimental conditions, we can arrange the characterics in the proper order on PDA inter-face according to their significance.
Thus there is no need to consult all kinds of correlative books about plants. With the help of the plant search system on PDA devices, users can broaden their knowledge by mobile learning and the observation of plants.
Advisory Committee Shu-Chen Cheng - advisor

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