World Academy of Science, Engineering and Technology
International Journal of Computer and Information Engineering
Vol:11, No:07, 2017

Flexible 3D Virtual Desktop Using Handles for Cloud Environments

Authors : J. K. Lee, S. L. Lee

Abstract : Due to the improvement in performance of computer hardware and the development of operating systems, a multi-tasking for several programs has become one of the basic functions to computer users. It is natural for computer users to want more functional, convenient, and visual GUI functions (Graphic User Interface). In this paper, a 3D virtual desktop system was proposed to meet users' requirements for cloud environments such as a virtual desktop function in the Windows environment. The proposed system uses the handles of the windows to hide or restore several windows. It connects the list of task spaces using the circular double linked list to manage the handles. Each handle list is registered in the corresponding task space being executed. The 3D virtual desktop is efficient and flexible in handling the numbers of task spaces and can help users to work under more comfortable environments. Acknowledgment: This research was supported by the Basic Science Research Program through the National Research Foundation of Korea (NRF) funded by the Korea government (MSIP) (NRF-2015R1D1A1A01057680).

Keywords : virtual desktop, GUI, cloud, virtualization
Conference Title : ICITM 2017 : International Conference on Information Technology and Management
Conference Location : Singapore, Singapore
Conference Dates : July 04-05, 2017