

# D-TP01

## Internet-Based Control

13:00-15:00  
Room : 4127

Chair : Choi Jae-Weon (Pusan National Univ.)  
Co-Chair : Jee Gyu-In (Konkuk Univ.)

---

14:50 – 15:10

D-TP01-7

### **Practical Treatment of Path-Delay Error by Terrain Model in Mobile Wireless Location**

Kim Wuk, Lee Jang Gyu and Jee Gyu In  
(Seoul National University)

This paper shows a practical approach that is robust to the errors causing path-delay in mobile wireless location, and analyzes its performance by comparing with other methods. NLOS(non-line-of-sight) error and multipath are two big sources of positioning error in wireless location. Contrary to GPS(global positioning system), they result from the terrestrial propagation of a signal. Especially, since LOS(line-of-sight) path between a transceiver and a receiver is blocked by intermediate buildings and topography, NLOS causes a signal to be reflected and diffracted. This path-delay error is very localized, and so, it is not easy to be estimated and mitigated. To treat such localized error, therefore ...

---

---

---