

Wireless and configurationless iClassroom system with remote database via Bonjour

Mohamed Ariff Ameen; Zafril Rizal M. Azmi

Universiti Malaysia Pahang, Lebuhraya Tun Razak Kuantan Malaysia

ABSTRACT

Wireless communication protocols are fast replacing wired communication methods in the world nowadays, especially with the ever-growing popularity of mobile devices. One such wireless communication protocol that has a unique characteristic of not requiring any sort of configuration is Bonjour, an Apple proprietary zero-configuration protocol that are currently used in Apple manufactured devices such as the Apple MacBook, iPads and iPhones. This paper aims to utilize this unique wireless communication protocol in an intelligent classroom environment (iClassroom) where the teachers and students communicate wirelessly using their mobile devices through the iClassroom system that requires no configuration.

KEYWORDS:

Wireless; Bonjour; Intelligent Classroom; Remote Database

REFERENCES

1. Cali, F., Conti, M., Gregori, E.: IEEE 802.11 wireless LAN: capacity analysis and protocol enhancement. In: Proceedings of Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies (1998)
2. Adams, N., et al.: An infrared network for mobile computers. In: Mobile & Location-Independent Computing Symposium (1993)
3. Gao, X., Gao, Y.: TDMA Grouping Based RFID Network Planning Using Hybrid Differential Evolution Algorithm. In: Wang, F.L., Deng, H., Gao, Y., Lei, J. (eds.) AICI 2010, Part II. LNCS, vol. 6320, pp. 106–113. Springer, Heidelberg (2010)
4. Harte, L.: Introduction to Bluetooth. Althos (2009)
5. Apple, Bonjour Overview (Networking, Internet, & Web: Services & Discovery) Apple (2006)