

# **Global Orbit Feedback in SRRC**

Changhor Kuo, Kuotung Hsu.  
Synchrotron Radiation Research Center (SRRC)  
1, R&D Road, 6 Science-Based Industrial Park, Hsinchu 30077 Taiwan, R.O.C.

## **Abstract**

Global orbit feedback system plays crucial roles for the operation of the 3<sup>rd</sup> generation light source in the SRRC now. There are various issues in orbit feedback system should be addressed to achieve ultimate performance. The orbit feedback system is upgraded recently to satisfy the requirement of demanding users. Based upon operational experiences of the last few years, new system was designed with more easy maintained and diagnostic environments, robustness and flexibility controller. The new hardware structure is based on general purpose CPU with real-time operation system to reduce upgrade time and investment. Performance analysis tools are also developed to monitor system and data analysis. The Commercial Off-The Shelf products (COTS) with high integration quality are applied to support various beam study and system performance inspection. The implement features will be presented in this report.