

## **Frank Tsozen Yeh**

Assistant Professor, Department of  
Computer Science and Information Engineering  
E-mail : [yeh@csie.fju.edu.tw](mailto:yeh@csie.fju.edu.tw)



### **Education**

Ph.D. Computer Science, University of California, Santa Cruz, U.S.A. 2002

M.S. Computer Science, California State University, Chico, U.S.A. 1993

B.E. Computer Science and Information Engineering, Feng Chia University, Taiwan, 1989

Dr. Yeh's research mainly focuses on operating systems, cloud computing, storage systems, and architecture. For the past several years, he had developed new techniques of using file access prediction and disk grouping to improve the overall performance of computer systems. These new techniques not only improve the performance of operating systems, also efficiently utilize memory and hard disk space. In addition, he also constructed disk schedulers with the ability of supporting prioritized disk request service according to the user's preference. Experimental results demonstrated that programs can finish their execution much sooner when they were assigned higher priority while no obvious performance penalty observed for other concurrent programs assigned with normal priority. Besides improving the performance of the operating system, he also explored techniques of bettering the efficiency of the web proxy server through clustering and grouping algorithms. In the meanwhile, he devised techniques integrating both architecture and operating system to develop fault-tolerant systems, which provide users the opportunity to revive software in the case of crashes. Currently, he is working on techniques improving the performance of distributed file systems used in cloud computing. His recent research on operating system, web performance, and fault-tolerant systems had lead to publication in five ACM and IEEE conferences in the year of 2012.

## **Selected publication**

1. Tsozen Yeh and Shuwen Yang, "Improving the Program Performance through Prioritized Disk Operation", The 2012 International Conference on High Performance Computing and Simulation (HPCS 2012), ACM/IEEE/IFIP, 2012,07.
2. Tsozen Yeh and Liming Yang, "Using Prioritized Disk Service to Expedite Program Execution", The Fifth International Symposium on Advances of High Performance Computing and Networking, IEEE, 2012,06.
3. Tsozen Yeh and Zongwei Yang, "Using Dynamic Segment Adjustment to Improve the Performance of Streaming Proxy Servers", The 7th IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, IEEE, 2012,06.
4. Tsozen Yeh and Weian Cheng, "Improving Fault Tolerance through Crash Recovery", The IEEE International Symposium on Biometrics and Security Technologies, IEEE, 2012,03.
5. Tsozen Yeh and Yenlin Pan, "Improving the Performance of the Web Proxy Server through Group Prefetching", The 6th ACM International Conference on Ubiquitous Information Management and Communication, ACM, 2012,02.

## **Financial support for Ph.D. students**

[Stipend and Tuition]

Fu Jen Catholic University International PhD student Scholarship: NT 10,000/mo

Please refer to the website of Graduate Institute of Applied Science and Engineering of Fu Jen Catholic University.