

**Swire Properties Limited**  
**List of Research Publication**

1. **H. Wang, Y. Chen, C.W.H. Chan, J. Qin**, “A Robust Fault Detection and Diagnosis Strategy for Pressure-independent VAV Terminals of Real Office Buildings”, *Energy and Buildings*, Vol. 43, pp. 1774-1783, 2011.
2. **Haitao Wang, Youming Chen, Cary W.H. Chan, Jianying Qin**, “An Online Fault Diagnosis Tool of VAV Terminals for Building Management and Control System”, *Automation in Construction*, 2011.
3. **Haitao Wang, Youming Chen, Cary W.H. Chan, Jianying Qin**, “A Model-based Online Fault Detection Method for Air Handling Units of Real Office Buildings”, *Applied Mechanics and Materials*, Vols. 90-93 (2011), pp. 3061-3067.
4. **Shibai Cheng, Youming Chen, Cary W.H. Chan, Tony Lee, Ho Lam Chan, Jianying Qin, Qiang Zhou, Allan Cheung, Kenny Yu**, “A Robust Control Strategy for VAV AHU Systems and Its Application”, 3rd International Conference on Computer, Communication, Control and Automation (3CA 2011), Zhuhai, China, November 19-20, 2011.
5. **Wang Haitao, Chen Youming, Wang Jinhua, Chan W. H., Qin Jianying**, “A Study on Fault Detection and Diagnosis for VAV Air-handling Units of Real Buildings”, *Proceedings of the International Conference on Electric Technology and Civil engineering*, Lushan, China, 2011, 22-24: 4759-4762.
6. **Haitao Wang, Cary W.H. Chan, Jianying Qin, Allan Cheung, Kenny Yu, Ho Lam Chan, Youming Chen**, “An Online Fault Diagnosis Tool of VAV Terminals in Real Office Buildings”, *Hunan – Hong Kong Joint Symposium 2011*, pp. 87-95.
7. **Yunfeng Zhao, Tony Lee, Stephen O, Calvin K.K. Chan, Youming Chen**, “Fouling Detection and Diagnosis for Chillers with Seawater Cooling Systems Based on Operating Data”, *Hunan – Hong Kong Joint Symposium 2011*, pp. 96-103.
8. **Shibai Cheng, Tony Lee, Ho Lam Chan, Allan Cheung, Kenny Yu, Qiang Zhou, Youming Chen**, “Development and Application of Optimal Control Strategy for VAV Systems”, *Hunan – Hong Kong Joint Symposium 2011*, pp.104-109.
9. **王海涛, 陈友明, 陈永康, 秦建英**, “真实建筑中变风量空调末端装置故障在线检测与诊断研究”, *建筑科学* 2010, V26 ( 10 ) : 209-211。
10. **张楠, 陈友明, 陈永康, 秦建英**, “基于能耗目标函数的空调新风量寻优控制研究”, *湖南大学学报* 2012
11. **W.H. Chan, C.K. Sze, J.P. Wu, S.Y. Chan, H.W. Cai, C. Chang and J.Y. Qin**, “Control Performance Improvement of HVAC Terminals to Enhance Plant Efficiency”, *The First Greater Pearl River Delta Conference on Building Operation and Maintenance: Sustainable and Value-for-money Built Facilities*, 22 Oct. 2010, Hong Kong
12. **常晟, 魏庆芃, 蔡宏武, 常良, 陈永康, 吴稼培, 陈盛业**, “空调系统节能优化运行与改造案例研究(1): 冷水机组”, *暖通空调* 2010 年第 8 期
13. **常晟, 魏庆芃, 蔡宏武, 常良, 陈永康, 吴稼培, 陈盛业**, “空调系统节能优化运行与改造案例研究(2): 冷水系统”, *暖通空调* 2010 年第 8 期
14. **常晟, 魏庆芃, 蔡宏武, 常良, 陈永康, 吴稼培, 陈盛业**, “空调系统节能优化运行与改造案例研究(3): 空调机组”, *暖通空调* 2010 年第 8 期

15. 沈后, 魏庆芑, 陈永康, “空调系统节能优化运行与改造案例研究(4): 冷却塔”, 暖通空调 2010 年第 8 期
16. 王海涛, 陈友明, 陈永康, 秦建英, “变风量空调末端装置故障检测诊断技术及应用研究”, 第三届空调模拟分析学术交流会, 2009 年 12 月 18 日, 清华大学
17. **Peter Ma and Jean Qin**, “Energy Management in Existing Commercial Buildings and Practice on Engineering Retrofit Projects”, The Fifth International Conference on Intelligent Building & New Technology and Products Expo, 27-29 Mar. 2009, Beijing, China
18. 陈永康, “香港'又一城'冷冻水系统的节能控制”, 建筑科学 2008 年第 4 期
19. 陈永康, 李绍宜, 秦建英, “香港'林肯'大厦空调一次泵系统变流量改造”, 建筑科学 2007 年第 12 期
20. **Jianying Qin, Shengwei Wang, Cary Chan and Fu Xiao**, “Commissioning and Diagnosis of VAV Air-conditioning Systems”, The 6th International Conference for Enhanced Building Operation, Nov. 2006, Shen Zhen, China.
21. **Cary Chan, Tony Lee and Jean Qin**, “Conversion of Single-loop Chilled Water System to Variable Flow for Improved Energy and Control Performance”, Efficient Built Environment for Tomorrow – Hong Kong Joint Symposium 2006.
22. **F.W. Yu, H.Y. Chu, K.T. Chan, Cary W.H. Chan, Paul S.K. Sat**, “Low Energy Operating Strategies for Air-cooled Chillers Serving an Office Building”, Sichuan – Hong Kong Joint Symposium 2006.
23. **Leonard Chow, Cary Chan and K.L. Chan**, “Energy Efficiency Experience with a Successful Performance Contract – Island Place Shopping Centre”, Sichuan – Hong Kong Joint Symposium 2006.
24. **Cary W.H. Chan**, “Innovative Chiller Control System at Festival Walk”, ASHRAE Technical Award 2006 – Honorable Mention Winner (published in ASHRAE Journal, 2006)
25. **Lap Yan Lee**, “Performance of Variable-Air-Volume Air-Conditioning System under Reduced Static Pressure Control in an Occupied Office”, Technical Notes – Building Services Engineering Research and Technology, CIBSE, 2003
26. **Michael Leung, Godwin Lai, W.H. Chan, J.Y. Qin & S.Y. Lee**, “Sponge-Ball Automatic Tube Cleaning Device for Saving Energy in a Chiller”, International Energy Journal, Vol.3(1) pp35-43, June 2002.
27. **K.F. Yee, Francis W.H. Yik, Cary W.H. Chan & Himson Y.T. Chan**, “A Study on the Energy Saving of Converting a VAV System from Inlet Guide Vane to Variable Fan Speed Control”, HKIE Transaction, Vol.9(2), pp1-7, August 2002.
28. **R. Lee & K. Wong**, “Post-occupation Evaluation of Buildings – Variable Air Volume System Re-commission and Retrofit”, BSOMES Technical paper, 2003.
29. **Francis W.H. Yik, Kevin Edmunds & Cary W.H. Chan**, “Building Energy Efficiency Assessments in Hong Kong and the Way Forward”, HKIE Transactions, Vol.8(2) pp.33-39, August 2001.
30. **Francis W.H. Yik, K.F. Yee, Paul S.K. Sat & Cary W.H. Chan**, “A Detailed Energy Audit for a Commercial Office Building in Hong Kong”, HKIE Transaction, Vol.5(3), pp84-88, December 1998.