CHERYL CHUNYAN QU

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EDUCATION

TEXAS A&M UNIVERSITY **COLLEGE STATION, TX**
PhD; Department of Chemical Engineering Expected Aug.2009
Process System Engineering

NATIONAL UNIVERSITY OF SINGAPORE **SINGAPORE**
M.Eng.; Department of Electrical and Computer Engineering Jun. 2003
Advanced Control Technology

ZHEJIANG UNIVERSITY **HANGZHOU, CHINA**
B.Eng.; College of Information Science and Engineering Jul. 2000
Industrial Automation

EXPERIENCE

DUPONT ENGINEERING **WILMINGTON, DE**
Summer Intern Jun.2008 to Aug.2008
Process Dynamics & Control Group

TEXAS A&M UNIVERSITY **COLLEGE STATION, TX**
Graduate Research Assistant Aug.2005 to Present
Department of Chemical Engineering

CH2M HILL COMPANIES LTD **SINGAPORE**
Lead Monitoring & Control System Engineer Jul. 2003 to Jul.2005
Water Business Group

NATIONAL UNIVERSITY OF SINGAPORE **SINGAPORE**
Research Scholar Jan.2001 to Jun.2003
Department of Electrical & Computer Engineering

HONORS & AWARDS

Spot Award, Ch2mHill Companies Ltd.	2004
Research Scholarship, National University of Singapore	2001-2002
Guanghua (Honor) Scholarship, Zhejiang University	1998
Liuyongling (Honor) Scholarship, Zhejiang University	1997
Freshman Scholarship, Zhejiang University	1996

PUBLICATIONS & PRESENTATIONS

C. Qu and J. Hahn. Computation of Arrival Cost for Moving Horizon Estimation via Unscented Kalman Filtering. *AIchE national meeting*, Philadelphia, Pennsylvania, Nov 2008.

C. Qu and J. Hahn. Process Monitoring and Parameter Estimation via Unscented Kalman Filtering *Journal of Loss Prevention in the Process Industries,* Accepted.

C. Qu and J. Hahn. Computation of Arrival Cost for Moving Horizon Estimation via Unscented Kalman Filtering. *Journal of Process Control,* in Press 2008.

C. Qu and J. Hahn. State and Parameter Estimation via EKF, UKF and MHE. *Process Science & Technology Center Fall Meeting*, Austin, Texas Oct 2007.

C. Qu and J. Hahn. Abnormal Situation Management via Unscented Kalman Filter. *Mary Kay O'Connor PSC 2007 Symposium*, Bryan, Texas, Oct 2007.

C. Qu and J. Hahn. Fault Diagnosis for Plant Operations and HAZOP Design/Improvement. *Process Science & Technology Center Spring Meeting*, College Station, Texas, Apr 2007.

C. Qu and J. Hahn. Process Monitoring and Parameter Estimation Via Unscented Kalman Filtering. *AIchE spring meeting*, Houston, Texas, Apr 2007.

A. P. Loh, C. Qu and K. F. Fong. Adaptive Control of discrete time systems with concave/ convex parameterization. *IEEE Transactions on Automatic Control* Vol. 48, No. 6, Jun 2003

C. Qu and A. P. Loh. Adaptive Control of discrete time systems with nonlinear parameterization. *15th IFAC World Congress on Automatic Control*, Barcelona, Spain, Jul 2002.