

CURRICULUM VITAE

Family Name: Sun
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First Name: Pei
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Academic Background

✧ Education

PhD Candidate of Control Science and Engineering Sep. 2011 to present
Zhejiang University, Hangzhou

Focus:

data-driven soft sensor of spatial-temporal process based on Gaussian Process Model, batch-to-batch controller design for the Low Pressure Chemical Vapor Deposition process, adaptive MPC control based on GPM

Main Courses:

Matrix Theory, System Identification, Linear System Theory, Industry Process Modeling

Bachelor of Automatic-control Engineering Sep. 2007 to Jul. 2011
East China University of Science and Technology, Shanghai

Ranking:

Top 3% out of 123 students in the department

Main Courses:

Classic Control Theory, Modern Control Theory, Principles of Chemical Engineering, Fundamentals of Mono-Chip Computers, C Language and Application etc.

✧ Publications

1. **Sun Pei**, Chen Junhui, Xie Lei. Self-Active and Recursively Selective Gaussian Process Models for Nonlinear Distributed Parameter Systems, *Chemical Engineering Science*, 2015, 123: 125-136.
2. Sun Pei, Chen Junhui, Xie Lei. Active-Improving Nonlinear Model Predictive Control Based on Gaussian Process Model, submitted to IECR
3. **Sun Pei**, Chen Junhui, Xie Lei. Spatial Batch Optimal Design Based on Self-Learning Gaussian Process Models for LPCVD Processes, *Chinese Journal of Chemical Engineering*, revised
4. **Sun Pei**, Cai Xing, Chen Junhui, Xie Lei. Modeling of Two-Dimensional Dynamic Temperature Distribution of a LPCVD Process and Control Design by MPC. *32nd Chinese Control Conference, 2013*
5. **Sun Pei**, Chen Junhui, Xie Lei. Active Data Based Gaussian Process Models for Nonlinear Spatiotemporal Systems, *World Congress on Intelligent Control and Automation, 2014*
6. Cai X, **Sun P**, Chen J, Xie L. ILC strategy for progress improvement of economic

performance in industrial model predictive control systems[J]. Journal of Process Control, 2014, 24(12): 107-118.

7. Cai X, **Sun P**, Chen J, et al. ILC strategy for progress improvement of economic performance in industrial model predictive control systems[J]. Journal of Process Control, 2014, 24(12): 107-118.

Honor & Awards

1. National Scholarship in 2008
2. First Class Scholarship of University twice during undergraduate
3. Second Class Scholarship of University twice during undergraduate
4. Outstanding Graduates of Shanghai City in 2011
5. Excellent Postgraduate of University in 2013

English Ability

IELTS: Band 6.5

Listening: 7

Reading: 7

Writing: 6

Speaking: 6