

Faming Li

University of California, San Diego
Mechanical & Aerospace Engineering
La Jolla, CA 92093-0411
faming@ucsd.edu

9226-I Regents Rd.
La Jolla, CA 92037-1434
(858) 452-1715

- EDUCATION** ◇ **University of California San Diego.** GPA: 3.8
Ph.D. student in Mechanical and Aerospace Engineering, (September 2000 – present)
- ◇ **Beijing Univ. of Aero. & Astro.** China. GPA: 3.7
M.Sc. in Electro-mechanical Engineering, March 2000.
Thesis title: *Modeling and control of electro-mechanical servo systems.*
B.Sc. in Mechatronic Engineering, July 1997.
- ◇ **Scholarships and Awards**
- Scholarship of the University of California San Diego (September 2000 – present)
 - Best thesis award Beijing Univ. of Aero. & Astro. (March 2000)
- RESEARCH INTERESTS** Integrating signal processing and control, Iterative identification and control, Computer aided simulation and design.
- RESEARCH PROJECTS** ◇ Economical sensor/actuator selection and its application to flexible structure control.
◇ Synthesis of q-Markov covariance equivalent realization with finite precision consideration.
◇ Economical distribution of computational resources in simulation problems.
We study the simulation design of a large-scale dynamic system with certain accuracy requirements and limited computational resources in a digital system with round-off errors. The system realization and wordlength allocation scheme are attained simultaneously by solving LMI (linear matrix inequalities).
◇ Master's project: Adaptive control of electro-mechanical servo systems. (1997 – 2000)
◇ Bachelor's project: Implementaion of fuzzy control in servo systems. (Spring 1997)
- SKILLS** ◇ C/C++, FORTRAN, JAVA, Assembly Language
◇ Matlab, ProE, AutoCAD
◇ Unix/Linux, MS-DOS, MS-Windows
◇ Digital control system integration
- WORK EXPERIENCE** ◇ **Teaching Assistant**, University of California San Diego
Signals and Systems (Winter quarter, 2003)
Computer Aided Design (Fall quarter, 2002)
◇ **Research Assistant**, Advisor: Prof. Robert Skelton.
Department of Mechanical & Aerospace Engineering, University of California San Diego (September 2000 – present)
- PAPERS** *Economical simulation design for linear systems.* Faming Li, R E. Skelton, SPIE International Symposium on Smart Structures and Materials. March, 2003

On the economical distribution of computational resources in simulation problems.

Faming Li, R. E. Skelton. IEEE Conference on Control and Decision (CDC), 2003 Maui.

Economical sensor/actuator selection and its application in structure control. R. E. Skelton,

SPIE International Symposium on Smart Structures and Materials. March, 2004

Synthesis of q -Markov covariance equivalent realization with finite precision consideration.

Faming Li, R. E. Skelton. American Control Conference (ACC), 2004 Boston.