

**1. Name and Academic Rank**

Maj Dean Mirmirani, Professor, Chair

**2. Degrees with fields, institution, and date**

1977 Doctor of Philosophy  
Mechanical Engineering  
University of California, Berkeley

1971 Master of Science  
Mechanical Engineering  
University of California, Berkeley

1967 Bachelor of Science  
Mechanical Engineering  
Tehran Polytechnic

**3. Number of years service on this faculty, including date of original appointment and dates of advancement in rank**

Date of original appointment: 1981

Number of years in service: 24

**4. Other related experience--teaching, industrial, etc.**

Academic Experience:

2002-Present Chair, Department of Mechanical Engineering  
California State University, Los Angeles

1987-Present Professor of Mechanical Engineering,  
California State University, Los Angeles

1993-1999 Chair, Department of Mechanical Engineering  
California State University, Los Angeles

1983-1987 Associate Professor of Mechanical Engineering  
California State University, Los Angeles

1981-1983 Assistant Professor of Mechanical Engineering  
California State University, Los Angeles

1980-1981 Part-time Faculty, Department of Mechanical Engineering  
California State University, Los Angeles

1979-1980 Academic Visitor, Department of Electrical Engineering  
Imperial College of Science and Technology, London, England

1977-1980 Lecturer, Department of Informatic and Systems Engineering  
National University, Tehran, Iran

Industrial Experience:

1980-1981 Senior Project Engineer  
C. F. Braun and Co., Alhambra, CA

1977-1980 Senior Analyst  
Industrial Management Institute, Tehran, Iran

**5. Consulting, patents, etc.**

Consulting: Laboratory of Theoretical Biology, National Cancer Institute, Bethesda, Maryland (1982 & 1984)

**6. State(s) in which registered**

None

**7. Principal publications of last five years**

- Xu H., Mirmirani M., and Ioannou P. A., "Adaptive sliding mode control design for a hypersonic flight vehicle", AIAA Journal of Guidance, Control, and Dynamics, Vol. 27, No 5, 2004.
- Xu H., Ioannou P. A., and Mirmirani M., "Adaptive control for class of large scale nonlinear systems", will appear in International Journal of Control, 2005.
- Huo Y., Mirmirani M., Ioannou P. A., and Colgren R., "Adaptive Linear Quadratic Design with Application to F-16 Fighter Aircraft," AIAA Guidance, Navigation, and Control Conference and Exhibit, August 2004, Providence, Rhode Island
- Keshmiri S., Mirmirani M. D., and Colgren R. D., "Six-DOF Modeling and Simulation of a Generic Hypersonic Vehicle for Conceptual Design Studies," AIAA Modeling and Simulation Technologies Conference, August 2004, Providence, Rhode Island
- Fidan B., Mirmirani M., and Ioannou P. A., "Air-breathing hypersonic flight control," in Proc. 16th IFAC Symposium on Automatic Control in Aerospace, Jun. 2004
- Xu H., Mirmirani M., and Choi S., "LQG control of a CFD-based aeroelastic wing model," IEEE 2003 Conference on Decision and Control, Maui, HI, Dec. 2003.
- Xu, H., Mirmirani, M., "Robust Adaptive Sliding Control for A Class of MIMO Nonlinear Systems," Proceedings of the AIAA Guidance, Navigation and Control Conference, Montreal, Canada, August 2001
- Xu, H., Mirmirani, M., Boussalis, H., "Robust Adaptive Control of Linearizable Systems with Saturated Input," Proceeding of the 5th IFAC Symposium of Nonlinear Control System, Saint Petersburg, Russia, July, 2001
- Xu, H., Mirmirani, M., and Ioannou, P., "Robust Adaptive Sliding Control of Linearizable Systems," American Control Conference, Arlington, VA, 2001
- Mirmirani, M., Xu, H., "Linear Quadratic Gaussian Control of Coupled Aeroservoelastic of a Simple Wing Model," Technical Report 101-2000, NASA Dryden Flight Research Center, California State University, Los Angeles, December 2000

**8. Scientific and professional societies of which a member**

- American Institute for Aeronautics and Astronautics, Senior Member
- American Society of Mechanical Engineers, Member
- American Society for Engineering Education, Member

**9. Honors and awards**

- 2003-2004 University Outstanding Professor Award
- Meritorious Performance and Promise Award, CSULA, 1990
- NASA Technical Brief for software development, "Algorithm for Calibrating Robot Arms," 1986
- Pi-Tau Sigma Mechanical Engineering Honor Society

**10. Institutional and professional service in the last five years**

- Department Committee Service
  - 2002 – Present      Department Chair
- College Committee Service
  - 1999 – Present      College Retention, Tenure, and Promotion Committee
- Grants
  - 2002    University Research Center, NASA grant to establish a, \$6M, 5 Years, Senior Co-PI
  - 2001    Air Force Office of Scientific Research grant, \$800,000, 3 Years, PI

**11. Professional development activities in the last five years**

- Attendance at Teaching Related Courses, Workshops, and Conferences:
  - 09/04    ASEE International Colloquium on Engineering Education, Begin, China
  - 08/04    AIAA GNC, Chaired a Session, Presented a Paper, Providence, RI
  - 08/04    AFOSR, Dynamics and Control Annual Contractors Meeting, Pasadena, CA