

VASSILIS L. SYRMOS

Professor
Vice President for Research and Innovation
University of Hawaii
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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

- **Ph.D. in Electrical Engineering**, June 1991. Major field: Control systems with minor in applied mathematics, computational design techniques, generalized systems and geometric theory for linear systems. Research on generalized and state-variable linear systems; geometric approach, algebraic approach, matrix pencil approach, and numerical methods applied to various feedback (dynamic/nondynamic) design techniques.

Ph.D. Thesis Title: “Feedback design techniques in linear system theory: Geometric and algebraic approaches.” Thesis advisor: Prof. Frank L. Lewis.

DEMOCRITUS UNIVERSITY OF THRACE, GREECE

- **Diploma in Electrical Engineering**, June 1987. Awarded with high honors.

EMPLOYMENT HISTORY

- **University of Hawaii System, Office of the Vice President for Research and Innovation**, Vice President for Research and Innovation. (Sep. 2013– present)
- **University of Hawaii at Manoa, Office of the Vice Chancellor for Research and Graduate Education**, Associate Vice Chancellor for Research. (Nov. 2006– Aug. 2013)
- **University of Hawaii at Manoa, Office of the Vice Chancellor for Research and Graduate Education**, Interim Associate Vice Chancellor for Research and Graduate Education. (July 2005– Nov. 2006)
- **University of Hawaii at Manoa, College of Engineering**, Associate Dean. (October 2004– July 2005)
- **University of Hawaii at Manoa, College of Engineering**, Interim Associate Dean. (March 2003– October 2004)
- **University of Hawaii at Manoa, Office of the Vice Chancellor for Research and Graduate Education**, Senior Advisor. (January 2003– July 2005)
- **Research Corporation of the University of Hawaii, Science and Technology Division**, Interim Director. (January 2003– June 2003)
- **University of Hawaii at Manoa, Department of Electrical Engineering**, Professor. (July 2000– present)
- **University of Hawaii at Manoa, Department of Electrical Engineering**, Associate Professor. (August 1998–June 2000)
- **The Boeing Company, Flight Systems, Seattle WA**, sabbatical year. (August 1997–July 1998).
- **University of Hawaii at Manoa, Department of Electrical Engineering**, Associate Professor. (July 1995–August 1997)
- **University of Hawaii at Manoa, Department of Electrical Engineering**, Assistant Professor. (August 1991–June 1995)
- **Georgia Institute of Technology, School of Electrical Engineering**, Graduate Research As-

sistant. (Fall 1987–Spring 1991)

- **Democritus University of Thrace, School of Electrical Engineering**, Undergraduate Research Assistant under the European Union (EU) grant COMMET. (Fall 1986–Summer 1987)

RESEARCH INTERESTS

- Research in control systems, matrix pencil theory, robust and optimal control, geometric theory and their applications to linear system theory. Research in numerical methods for feedback design techniques in control systems and image and signal processing. Research in system identification, and image reconstruction in medical applications. Research on numerical methods for STAP and C-STAP algorithms for UESA radars. Research on condition based maintenance systems including prognostics and diagnostics. Research in prognostics, diagnostics and conditioned based systems using extended Kalman filtering, classification and pattern recognition. Published over 100 journal and conference papers in these areas.

FUNDING

- Research has been funded by the National Science Foundation, the Defense Advanced Research Projects Agency, the Office of Naval Research, the Naval Air Systems Command, the Naval Sea Systems Command, the Air Force Research Labs at Wright Patterson, the Army Research Labs, The Boeing Company, Hawaiian Electric Company and Hamamatsu Photonics.

BOARDS

- Research Corporation of the University of Hawaii.
- Pacific International Center of High Technology Research.
- Natural Energy Laboratory of Hawaii Authority .
- Hawaii Academy of Sciences .
- XLR8UH, the University of Hawaii System accelerator.
- Oahu Economic Development.
- Cybersecurity Hawaii.

SCHOLARSHIPS & AWARDS

- Recipient of honorary scholarship for five consecutive years, 1982-1987, for outstanding undergraduate performance (ranking first every year) from the Greek State Scholarship Foundation.
- Recipient of honorary award, June 1987, for graduating with the highest grade point average in the School of Engineering, from the National Technical Chamber of Greece.
- Recipient of the AHEPA honorary scholarship, 1989-1990, for outstanding research from the Southeast AHEPA Chapter, USA.
- Recipient of the Alexander Onassis scholarship, 1989-1991, for outstanding graduate performance, from the Alexander Onassis Foundation, Athens, Greece.
- Recipient of the Outstanding Electrical Engineering Faculty of the Year Award, 1992-1993, from the IEEE Student Branch of the University of Hawaii at Manoa, Honolulu, HI.
- Recipient of the Boeing - A.D. Welliver Faculty Summer Fellowship, June-Aug. 1996, Seattle, WA.

BOOKS

- [1] F.L. Lewis and V.L. Syrmos, “Optimal Control,” *John Wiley*, 2nd, Edition, New York, 1995.