2013-10-22

Faculty and Staff Listing

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Faculty

Dr. Brij N. Agrawal
Distinguished Professor, Associate Chairman Astronautical Engineering,
Director, Spacecraft Research and Design Center

Education
Ph.D. - Mechanical Engineering, Syracuse University, 1970
M.S. - Mechanical Engineering, McMaster University, 1968
M.E. - Mechanical Engineering IIT, Roorkee, 1966
B.S. - Mechanical Engineering, Banares University, 1964

Research Interests
Acquisition, tracking, and pointing of Bifocal Relay Mirror Spacecraft Vibration isolation, optical beam jitter control, and active structural control. Structural, control, and optics interaction for large flexible space mirrors. Adaptive optics and adaptive control. Space system design.

Alan D. Scott (CAPT, USN (ret))
Associate Director of SRDC / Senior Lecturer

Education
Graduate, Advanced Pgm Mgmt Course Defense Sys Mgmt College, 1999
Aeronautical and Astronautical Engineer, Naval Postgraduate School, 1996
M.S.- Astronautical Engineering, Naval Postgraduate School, 1996
Graduate, Eng Test Flight Officer Course US Naval Test Pilot School, 1988
B.S. - Electrical Engineering US Naval Academy, 1981

Research Interests
Military Applications of Space Systems. Military Space Systems Architectures and Operations. Space Systems Testing and Mission Assurance.

Dr. Lewis DeSandre
Research Associate Professor

Education
PhD Optical Sciences

Research Interests
Directed Energy, Beam Control, Electro optics

Dr. Jae Jun Kim
Research Assistant Professor / Associate Director

Education
Ph.D. - State University of New York at Buffalo, 2004
M.S. - State University of New York at Buffalo, 2000
B.S. - State University of New York at Buffalo, 1998

Research Interests
Spacecraft Attitude Control, Flexible Spacecraft Control, Optimal Control, Adaptive and Nonlinear Control.

Dr. Ty Martinez
Associate Director of Optical Relay Mirror Laboratory

Education
Ph.D. - Optical Sciences, University of Arizona, 1998

Staff

Albert Jordan
Research Associate
Facilities Manager

Education
M.S. - Mechanical and Aeronautical Engineering, University of California, Davis, 2010
B.S. - Mechanical and Aeronautical Engineering, University of California, Davis, 2005

Research Interests
Spacecraft Attitude Control. Adaptive Optics. Acquisition, Tracking, and Pointing. Autonomous Systems.

Mike Krol
Senior Office Administrator

Education

Research Interests

Edwin S. Ahn
Research Assistant/ Ph.D. Candidate

Education
Ph.D. - Mechanical Engineering, Columbia University, In Progress
M.S. - Mechanical Engineering, Columbia University, 2008
B.S. - Mechanical Engineering, Korea University, 2007

Research Interests
Repetitive Control, Adaptive Control, Disturbance Rejection in Fine Pointing Equipment, Spacecraft Attitude Control.

Current Students

Travis Axtell, Ph.D Student, USN CIV (591)
James (JJ) Watson, LCDR, USN, M.S. Student (591)
Lee Johnson, LTJG, USN, M.S. Student (591)
Shane Moran, ENS, USN, M.S. Student (591)

Recent Graduates

Richard Schgallis, CDR, USN, M.S. Student (591)
Matthew Allen, Captain, USAF, M.S. Student (591)
Brett Bateman, LT, USN, M.S. Student (531)
Michael Beerer, M.S. Student, USAF CIV (531)
Daniel Burtz, Major, USAF, Ph.D. Student (591)
Duane Frist, LCDR, USN, M.S. Student (591)
Jack Tappe, LT, USN, M.S. Student (591)
Michael Looysen LT, USN M.S. Student (591)
Melissa Corley, Captain, USAF, Ph.D. Student (591)
Adam Yingling, Ph.D Student, USAF CIV (591)

Ph.D. - Optical Sciences, University of Arizona, 1996
M.S. - Optical Sciences, University of Arizona, 1994
B.S. - Electrical Engineering, University of New Mexico, 1991

Research Interests
Liquid crystal SLMs and MEMs and nonlinear materials devices for use in adaptive optics systems and wavefront correction systems.

Dr. Roberto Cristi
Professor

Education
Ph.D. - Univ of Massachusetts, 1983
M.S. - Brunel Univ / UMIST (UK), 1979
B.S. - Univ de Padova (Italy), 1977

Research Interests
Digital signal processing, Control systems, Adaptive systems.

Dr. Ramesh Kolar
Research Assistant Professor

Education
Ph.D. - Engineering Mechanics, University of Arizona, 1984
M.S. - Aeronautical Engineering, Indian Institute of Science, India, 1978
B.S. - Mechanical Engineering, University of Mysore, India, 1976

Research Interests
Solid and Structural Mechanics – Classical and Numerical Methods. Composite mechanics / dynamics. Probabilistic Methods.

Multidisciplinary Coupled Analysis. Nonlinear Dynamical Systems and Applications.

Albert A. Ogloza
Visiting Professor

Education
Ph.D. Candidate - University of Arizona, Optical Sciences Center, 1993
M.S. - Physics, Southern Illinois University, Carbondale, 1987
B.S. - Physics, Southern Illinois University, Carbondale, 1984
A.S. - Triton Jr. College, 1981

Research Interests
Development of Directed Energy technologies, including Beam Control architectures, Adaptive Optics systems, Atmospheric Modeling and Compensation, tracking in high clutter and highly turbulent environments.

Douglas H. Nelson

Associate Professor

Education
PhD - University of New Mexico, 1999
MS - Naval Postgraduate School (with Distinction), 1998
BS - United States Military Academy, 1980

Research Interests
Laser propagation, multi-sensor integration, atmospheric turbulence measurements and modeling, systems engineering

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Dr. Bautista Fernandez
NRC Research Associate

Education
Ph.D. – Electrical Engineering, University of California, Santa Cruz, 2011
M.S. – Electrical Engineering, University of California, Santa Cruz, 2007
B.S. – Electrical Engineering, University of California, Santa Cruz, 2004

Research Interests
Adaptive Optics, Micro Electro Mechanical Systems Deformable Mirrors for Adaptive Optics.

Dr. John Bagnasco
Research Scientist

Education
Ph.D. – Physics, University of California, Santa Cruz, 1994
M.S. – Physics, University of California, Santa Cruz, 1991
B.S. – Materials Science and Mineral Engineering, University of California, Berkeley, 1983

Research Interests
Analysis, design and fabrication of optical components; Synchrotron radiation and X-ray optics; Electrodynamics; Numerical analysis; Mathematical Physics.