

Welcome to SDSU



SDSU

College of Engineering

Aerospace Engineering

Master of Science program (MSAE)

An Introduction to the AE Faculty



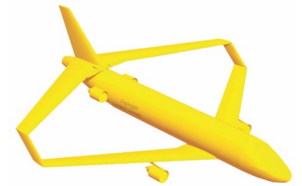
Chair's Message

Come join us! The Aerospace Engineering Department at San Diego State University is interested in attracting talented students to our B.S.A.E., M.S.A.E. and Ph.D. degree programs offering professional training in aerodynamics, propulsion, astrodynamics, guidance and control, and structural mechanics. Our programs through rigorous and innovative curriculum and high impact research experiences educate students to become the next generation of engineers and leaders in Aerospace Engineering.



Luciano Demasi

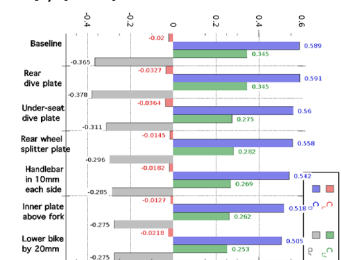
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Joseph Katz

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Aerodynamics
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Ping Lu

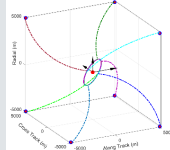
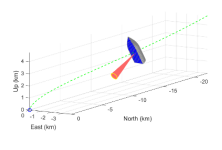
Albert W. Johnson
Distinguished Professor
Expertise: Guidance
and Control,
Autonomy
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<https://aerospace.sdsu.edu/faculty/ping-lu>

Prof. Lu's group in Computational Guidance and Control



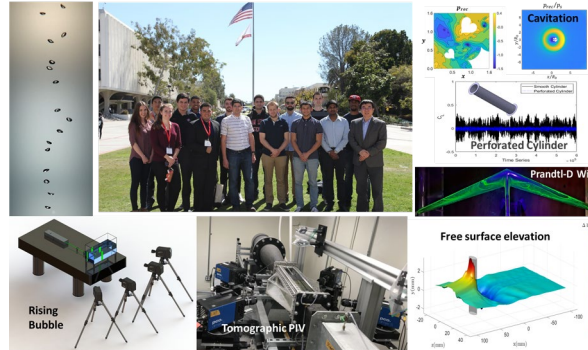
Advanced planetary powered descent guidance



Xiaofeng Liu

Professor
AE Graduate Advisor
Experimental Fluid
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and Multiphase Flow
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Laboratory of Advanced Experimental Fluid Dynamics

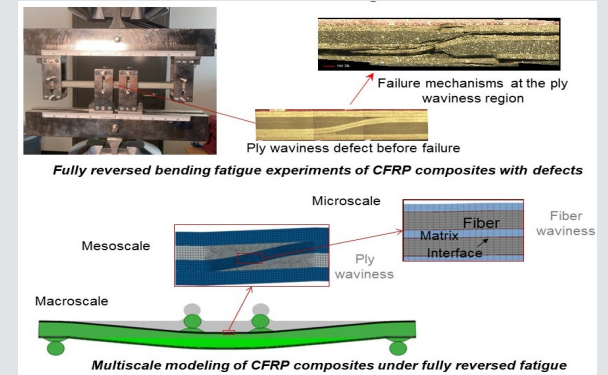


Satchi Venkataraman

Professor
Aerospace Structures,
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and Design Optimization
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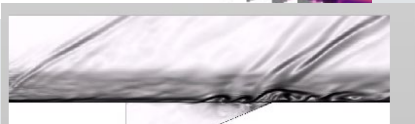
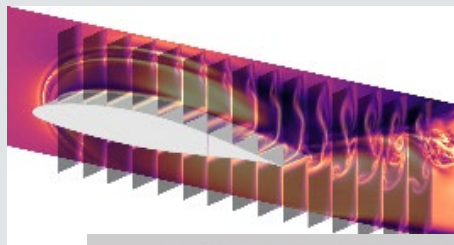
<http://engineering.sdsu.edu/~satchi/>



Gustaaf (Guus) Jacobs

Professor
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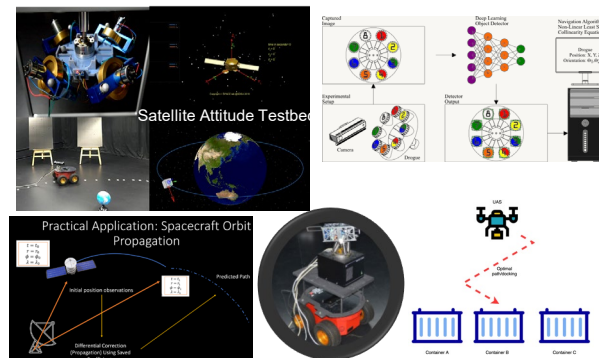
Unsteady Simulation of Flow in Propulsion Systems



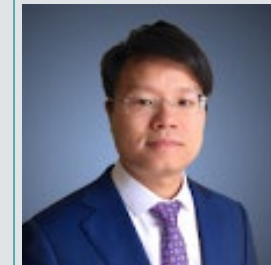
Ahmad Bani-Younes

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Navigation and Control
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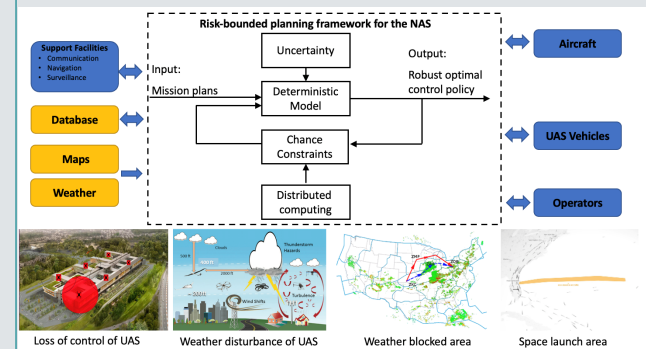
Spacecraft Platform for Astronautics and
Celestial Emulation



Jun Chen

Associate Professor
Dynamics, Control, and
Optimization for large-
scale networked
dynamical systems
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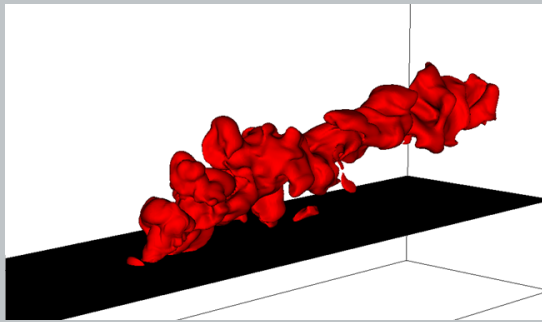
Autonomy & Control for Intelligent Air Transportation



Pavel Popov

Associate Professor
CFD, Propulsion,
Plasma-combustion
interactions
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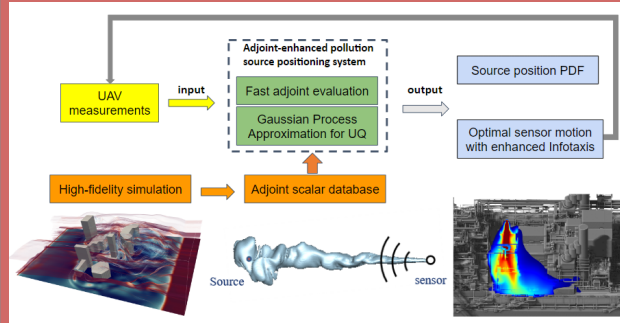
Visualization of a turbulent hydrogen jet in air crossflow



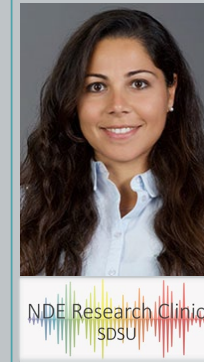
Qi Wang

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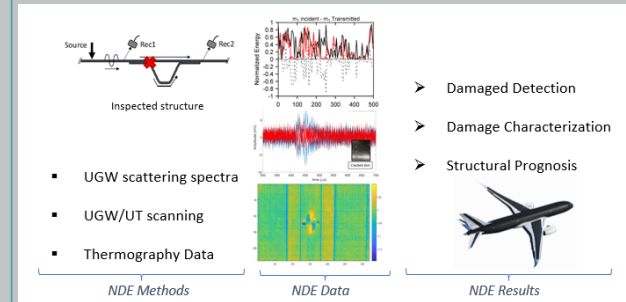


Big-data strategy for fast pollution tracking



Margherita Capriotti

Assistant Professor
Non-destructive evaluation
techniques, ultrasonic guided
wave (UGW) propagation
and scattering, composite
structures and biomedical
applications
mcapriotti@sdsu.edu



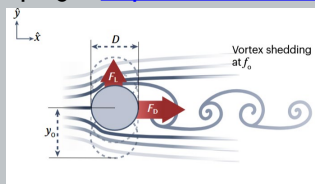
Non-Destructive Evaluation (NDE) database
and analysis for damage characterization



Roni Goldshmid

Assistant Professor
Expertise: Fluid mechanics,
thermal fluids, machine
learning
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Lab webpage: experimentalfluids.com



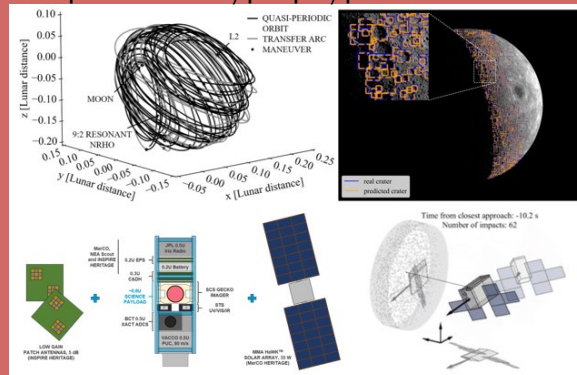
Development of wildland aerial firefighting tools



Pablo Machuca

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Autonomous GNC, Mission
Analysis, Systems Design
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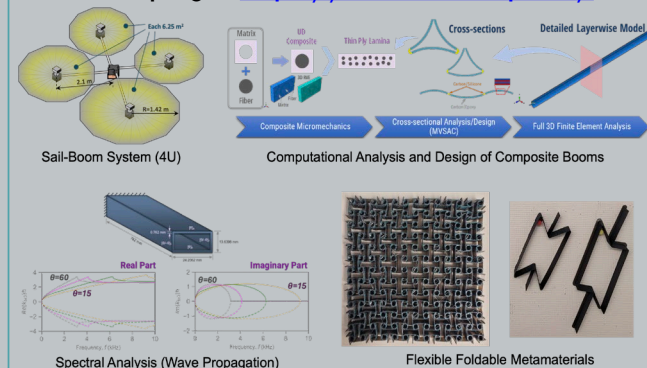
Trajectory Design, Autonomous Optical Navigation, CubeSat
Systems Design, and GNC



Manoj K. Dhadwal

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Expertise: Deployable
space structures,
Digital twins,
Nonlinear dynamics.
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Dynamics of deployable space structures

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