



> People

Welcome

People

Academics

Research

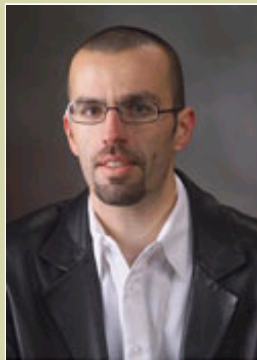
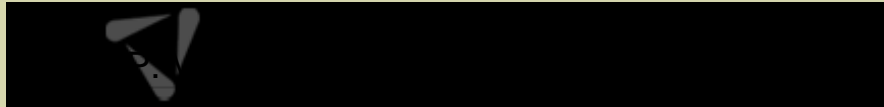
Admissions

News

Giving to SBES

Resources

Contact Us



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EDUCATION:

- ✔ Doctor of Philosophy in Engineering Mechanics, Virginia Tech, Blacksburg, VA, August 2000.
- ✔ Master of Science in Engineering Mechanics, Virginia Tech, Blacksburg, VA, December 1998.
- ✔ Diploma-BS: Mechanical Engineering, National Technical University of Athens, Greece, 1995.

RESEARCH INTERESTS:

- ✔ Cardiovascular fluid mechanics
- ✔ Arterial flows
- ✔ Left ventricular hemodynamics
- ✔ Vortex dynamics
- ✔ Multi-phase flows
- ✔ Measurement techniques and instrumentation
- ✔ Optical flow diagnostics
- ✔ Image and signal processing

> Home > People

> Faculty

> Primary Faculty

- > Atala, Anthony
- > Behkam, Bahareh
- > Berry, Joel
- > Bourland, Daniel
- > Carroll, David L.
- > Christ, George
- > Davalos, Rafael
- > Devita, Raffaella
- > Duma, Stefan
- > Freeman, Joseph
- > Gabler, Clay
- > Ge, Yaorong
- > Goldstein, Aaron
- > Grant, J. Wallace
- > Hamilton, Craig
- > Hardy, Warren
- > Harrison, Benjamin
- > Holzbaur, Katherine
- > Kraft, Robert
- > Lee, YongWoo
- > Lockhart, Thurmon
- > Madigan, Michael
- > Munley, Michael
- > Nussbaum, Maury
- > Rajagopalan, Padma
- > Rylander, Christopher
- > Rylander, Nichole
- > Santago, Pete
- > Saul, Justin
- > Socha, Jake
- > Soker, Shay
- > Sparks, Jessica
- > Staples, Anne
- > Stitzel, Joel
- > Van Dyke, Mark
- > Vlachos, Pavlos
- > Wang, Ge
- > Wyatt, Chris
- > Yoo, James

RECENT PUBLICATIONS:

- ▽ O. Pierrakos, P. P. Vlachos, and D. P. Telionis, "Vorticity and Turbulence Characteristics Inside a Transparent Flexible Left Ventricle via Digital Particle Image Velocimetry" Accepted to: Journal of Biomechanical Engineering
- ▽ S. K. Yazdani, P. P. Vlachos, J. L. Berry "Analysis Of Fluid-Stent Interaction Via Digital Particle Image Velocimetry" Accepted to: Journal of Biomechanical Engineering
- ▽ P. P. Vlachos and M. R. Hajj, "A Time-Resolved DPIV Study Of The Unsteady Character Of The Flow Over A Surface Mounted Prism" Journal Of Wind Engineering and Industrial Applications. (vol 90 pp 543-553)
- ▽ Zeiger, M.D., Telionis, D.P., Vlachos, P.P., "Unsteady Separated Flows Over 3-D Slender Bodies," Accepted to: Journal of Progress in Aerospace Sciences.
- ▽ C. Abiven, P. P. Vlachos, "Super spatio-temporal resolution, digital PIV system for multi-phase flows with phase differentiation and simultaneous shape and size quantification", Int. Mech. Eng. Congress, Nov. 17-22, 2002, New Orleans, LA
- ▽ C. Abiven, P. P. Vlachos and G. Papadopoulos, "Comparative study of established DPIV algorithms for planar velocity measurements", Int. Mech. Eng. Congress, Nov. 17-22, 2002, New Orleans, LA
- ▽ M. Brady, C. Abiven*, P. P. Vlachos, "Time-Resolved Spray-Droplet Velocity and Size Measurements via Single Camera Laser Sheet Imaging and Planar DPIV", Int. Mech. Eng. Congress, Nov. 17-22, 2002, New Orleans, LA
- ▽ P. P. Vlachos, M. D. Zeiger, and D. P. Telionis, "The Effect Of Free Surface On The Vortex Shedding From Inclined Circular Cylinders", FEDSM2000-11266, Boston, MA, 2000
- ▽ P. P. Vlachos, and D. P. Telionis, "Turbulence Characteristics In The Wake Of A Circular Cylinder Near The Free Surface", FEDSM2000-11320, Boston, MA, 2000
- ▽ P. P. Vlachos, and D. P. Telionis, "Three-Dimensional Streamwise Vortical Structures Of A Turbulent Wake Near The Free Surface." FEDSM2000-11262, Boston, MA, 2000.

- Top of Page -