

Biographical Sketch: Dr. Sergey G. Nersesov

Sergey G. Nersesov received the B.S. and M.S. degrees in aerospace engineering from the Moscow Institute of Physics and Technology, Zhukovsky, Russia, in 1997 and 1999, respectively, with specialization in dynamics and control of aerospace vehicles. From 1998 to 1999 he served as a researcher in the Dynamics and Control Systems Division of the Central Aero-Hydrodynamic Institute (TsAGI), Zhukovsky, Russia. In 2003 he received the M.S. degree in applied mathematics and in 2005 he received the Ph.D. degree in aerospace engineering both from the Georgia Institute of Technology, Atlanta, GA. Currently, he is an Associate Professor in the Department of Mechanical Engineering at Villanova University, Villanova, PA. His research interests include nonlinear robust and adaptive control, nonlinear dynamical system theory, large-scale systems, cooperative control for multi-agent systems, hierarchical nonlinear switching control, hybrid and impulsive control for nonlinear systems, system thermodynamics, thermodynamic modeling of mechanical and aerospace systems, and nonlinear analysis and control of biological and physiological systems. Dr. Nersesov is a coauthor of the books *Thermodynamics. A Dynamical Systems Approach* (Princeton University Press, 2005), *Impulsive and Hybrid Dynamical Systems. Stability, Dissipativity, and Control* (Princeton University Press, 2006), and *Large-Scale Dynamical Systems. A Vector Dissipative Systems Approach* (Princeton University Press, 2011).