Liubov Alexandrovna Klimina

PhD, leading researcher

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Personal data:
Born in Moscow, Russia on 17.09.1984

Education and Degrees:
2002-2007: Faculty of Mechanics & Mathematics of Lomonosov Moscow State University. Speciality: Theoretical mechanics and mechatronics.
2007-2010: Post-graduate study at the Faculty of Mechanics & Mathematics of Lomonosov Moscow State University.
2010 – PhD in Lomonosov Moscow State University (Thesis: “Vertical axis wind turbine: dynamics and control”)

Professional experience:

2004-2007	Engineer, Institute of Mechanics of Lomonosov Moscow State University
2008-2012	Research assistant, Institute of Mechanics of Lomonosov Moscow State University
2009-2012	Lecturer in mechanics, Peter the Great Military Academy for Strategic Rocket Forces
2012-2018	Senior researcher, Institute of Mechanics of Lomonosov Moscow State University
2018-	Leading researcher, Institute of Mechanics of Lomonosov Moscow State University

Scientific interests:

Dynamics of a rigid body in a medium flow: investigation of models of wind turbines, boats etc.

About 90 publications. Among them:

Klimina L.A. Rotation modes of motion of an aerodynamic pendulum with a vertical axis of rotation. Vestnik Mosk. Univ. Mathematics. Mechanics. 2009 №5. pp.71-75 (in Russian)

Dosaev M.Z., Klimina L.A., Lokshin B.Ya, Selyutskiy Yu D. On wind turbine blade design optimization// Journal of Computer and Systems Sciences International, 2014, V. 53, № 3, pp. 402-409

Klimina L., Dosaev M., Selyutskiy Yu. Asymptotic analysis of the mathematical model of a wind-powered vehicle // Applied Mathematical Modelling, 2017, V. 46, pp. 691-697

Klimina L.A., Lokshin B.Ya, Samsonov V.A. Bifurcation diagram of the self-sustained oscillation modes for a system with dynamic symmetry// Journal of Applied Mathematics and Mechanics, 2017, V. 81, pp. 442-449

International awards:

Best originality award of TECO GreenTech2013 (Taiwan) for the project "New wave type portable wind turbines" (as scientific adviser of the Lomonosov MSU team);

Gold medal of TECO GreenTech2015 (Taiwan) for the project “IiP wind-powered car” (as scientific adviser of the Lomonosov MSU team);

Gold medal of TECO GreenTech2016 (Taiwan) for the project "Dancing windy" (as scientific adviser of the Lomonosov MSU team);

ENOC 2017 Best Poster Award for the work "Asymptotic study of the model of a rowing boat".