Candidate supervisor's information summary form maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title:	Alexander Prokopenya, PhD, Dr.Sc.
Discipline/ disciplines of science	Informatics
Professional development (degrees and titles) in chronological order	1983 – Master in Theoretical and Mathematical Physics, M.V. Lomonosov State University in Moscow, Faculty of Physics 1988 – PhD in Theoretical and Mathematical Physics, M.V. Lomonosov State University in Moscow, Faculty of Physics
	Specialization: Informatics, A.A. Dorodnitsyn Computing Center of the Russian Academy of Science, Moscow (nostrification at the Jagiellonian University, Cracow, 2010)
Most important publications/patens over the last 3 years (maximum 10)	 M.Zh. Minglibayev, A.N. Prokopenya, A.B. Kosherbaeeva. Secular evolution of circumbinary 2-planet systems with isotropically varying masses. Monthly Notices of the Royal Astronomical Society, 530, 2156-2165 (2024) A. Prokopenya. Resonances and periodic motions of Atwood's machine with two oscillating weights. Programming and Computer Software, 49(5), 433-440 (2023) A.T. Ibraimova, M.Zh. Minglibayev, A.N. Prokopenya. Study of secular perturbations in the restricted three-body problem of variable masses using computer algebra. Computational Mathematics and Mathematical Physics, 63(1), 115 – 125 (2023) Zh. Imanova, A. Prokopenya, M. Minglibayev. Modelling the evolution of the two-planetary three-body system of variable masses. Mathematical Modelling and Analysis, 28(4), 636-652 (2023) A. Prokopenya. Stability analysis of periodic motion of the swinging Atwood machine. In: F. Boulier, M. England, T.M. Sadykov, E.V. Vorozhtsov (Eds.) Computer Algebra in Scientific Computing / CASC'2022, Lecture Notes in Computer Science, vol. 13366, Springer, Cham, 288 – 299. A.N. Prokopenya, M.Zh. Minglibayev, A.B. Kosherbaeeva Derivation of evolutionary equations in the many-body problem with isotropically varying masses using computer algebra. Programming and Computer Software, 48(2), 107-115 (2022) A.N. Prokopenya. Searching for equilibrium states of Atwood's machine with two oscillating bodies by means of Computer Algebra. Programming and Computer Software, 47(1), 43 – 49 (2021). A.N. Prokopenya. Construction of a periodic solution to the equations of motion of generalized Atwood's machine using

	 <i>computer algebra</i>. Programming and Computer Software, 46(2), 120 – 125 (2020). A.N. Prokopenya. <i>Modelling Atwood's machine with three degrees of freedom</i>. Mathematics in Computer Science, 13, 247 – 257 (2019)
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	 Supervisor of 3 defended PhD dissertations: 1. Dzmitry Budzko. Equilibrium solutions of motion's differential equations of restricted four-body problem and their stability. Belarussian State University, Minsk, Belarus, 2012. 2. Gulnara Mayemerova. Secular perturbations in the problem of three bodies of variable masses. Al-Farabi Kazakh National University, Almaty, Kazakhstan, 2013 3. Saule Shomshekova. Investigation of dynamical evolution of non-stationary exoplanetary systems, Al-Farabi Kazakh National University, Almaty, Kazakhstan, 2020.
	 Supervisor in 3 open doctoral dissertations: Zhanar Imanova, Secular perturbations in the two-planetary problem of three bodies of variable masses, Al-Farabi Kazakh National University, Almaty, Kazakhstan, 2015. Oralkhan Baisbayeva, Investigation of the rotational-translational motion of a non—stationary triaxial body in a central gravitational field, Al-Farabi Kazakh National University, Almaty, Kazakhstan, 2017. Saltanat Bizhanova, Investigation of the rotational-translational motion of a non—stationary dynamically symmetric body in a central gravitational field, Al-Farabi Kazakh National University, Almaty, Kazakhstan, 2017.
Project/grants achievements (from the last 10 years)	Guest researcher grant on Simulation of quantum computation with Mathematica, XLIM Institute, University of Limoges, France, May-June 2014.
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Mathematical modelling; Computer Algebra and Applications; Dynamical systems and motion stability; Simulation of quantum computation.
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