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 2007 - Dr.Sc . (habilitation), Mathematical Sciences, 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)	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 isotropcally varying masses using computer algebra. Programming and Computer Software, Vol. 48, No. 2 (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 computer algebra. Programming and Computer Software, 46(2), 120 – 125 (2020). M. Minglibayev, A. Prokopenya, O. Baisbayeva. Evolution equations of translational-rotational motion of a non-stationary triaxial body in a central gravitational field. Theoretical and Applied Mechanics, 47(1), 63 – 80 (2020). S.B. Bizhanova, M.Zh. Minglibayev, A.N. Prokopenya. A study of secular perturbations of translational-rotational motion in a nonstationary two-body problem using computer algebra. Computational Mathematics and Mathematical Physics, 60(1), 27 – 36 (2020). A.N. Prokopenya, M. Minglibayev, S. Shomshekova. Applications of computer algebra in the study of the two-planet problem of three bodies with variable masses. Programming and Computer Software, 45(2), 73–80 (2019).

	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:
	 Dzmitry Budzko. Equilibrium solutions of motion's differential equations of restricted four-body problem and their stability. Belarussian State University, Minsk, Belarus, 2012. Gulnara Mayemerova. Secular perturbations in the problem of three bodies of variable masses. Al-Farabi Kazakh National University, Almaty, Kazakhstan, 2013 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, 2018.
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.
Contact details:	Faculty of Applied Informatics and Mathematics / Institute of
Faulty/Institute	Information Technology
E-mail address	e-mail: alexander_prokopenya@sggw.edu.pl phone: +48 22 59 37 315
Tel.	phone. 740 22 38 37 3 13