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

Name and surname, degree, title:	Ph.D. Dr.Sc. Alexander Prokopenya
Discipline/ disciplines of science	Information and communication technology
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.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. <i>Evolution</i> 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. <i>A study of secular perturbations of translational-rotational motion in a nonstationary two-body problem using computer algebra</i> . 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).
	R. Kozera, A.N. Prokopenya. <i>Application of computer algebra to photometric stereo with two light sources</i> . Programming and Computer Software, 44 (2), 112 – 119 (2018).
	A.N. Prokopenya. <i>Numerical-symbolic methods for searching relative equilibria in the restricted problem of four bodies</i> . Mathematical Modelling and Analysis, 23 (3), 507 – 525 (2018).

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.
	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, 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.
	Project No 10-01-00200 Computer algebra methods in modelling quantum computation and discrete systems, Russian Foundation for Fundamental Research, project contractor , finished in 2012.
Topic – research problem – for	Mathematical modelling; Computer Algebra and Applications;
which the candidate supervisor seeks a doctoral student	Dynamical systems and motion stability; Algorithms for symbolic computation in studying the stability of motion.
Contact details: Faulty/Institute	Faculty of Applied Informatics and Mathematics / Institute of Information Technology
E-mail address	e-mail:alexander_prokopenya@sggw.edu.pl
Tel.	phone: +48 22 59 37 315