Name	Sergii Pasichnyk
Position, Department/Faculty	Associate professor of the Department of Aircraft Control Systems
Academic Degree, Academic Title	Candidate of technical sciences
Email:	s.psichnyk@khai.edu
Scopus Author ID:	57221445546
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ResearchGate:	https://www.researchgate.net/profile/Sergey-Pasichnik?ev=hdr_xprf

EDUCATION:

Basic education (university, major, year of graduation):
Mechanical engineer
Kharkiv Aviation Institute, aircraft engines and power plants, 1993

Additional training, certification programs:
Candidate of technical sciences, National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine, 2011

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Associate Professor
National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine
2011 – present
Senior Lecturer
National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine
2007–2011
Assistant Professor
National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine
2000–2006
Design Engineer
Research Institute of Problems of Physical Modeling of Aircraft Flight Modes, Kharkiv, Ukraine
1993–1999

Teaching Experience:

Teacher of the Department of Aircraft Control Systems
National Aerospace University "Kharkiv Aviation Institute", 1999 – present

teaching courses: "Automatic control theory", "Basics of avionics system modeling", "Basics of modeling automation objects", "Aircraft as a control object", "Production Practice"

RESEARCH ACTIVITIES:

Main Research Areas:
Rational Control of Complex Technical Objects;Mathematical modeling and control of objects with distributed parameters

Number of Publications (Scopus, WoS, others):
Over 6 scientific publications, including indexed articles in Scopus and Web of Science data bases

Monographs, Textbooks:
Co-author of 3 monographs and 3 textbooks in the field of automatic control and modeling

Participation in Scientific Conferences:
Regular participant (more than 10) and speaker at international and national scientific conferences on automatic control

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

Kulik, A., Dergachov, K. and Pasichnik, S. (2025) "Algorithms of holding-balance two-wheeled experimental sample stabilization and positioning", *International Scientific Technical Journal "Problems of Control and Informatics"*, 70(2), pp. 5–21. doi: 10.34229/1028-0979-2025-2-1

Nemshylov, Yu. O., & Pasichnik, S. M. (2024). Practical determination of transfer functions of an aircraft laboratory stand by yaw angle. *Open Information and Computer Integrated Technologies, (99)*, 62–77. https://doi.org/10.32620/oikit.2023.99.06

Kulik, A., Dergachov, K., Pasichnik, S., & Sokol, D. (2023). Rational control by temperature in vortex energy separator under destabilizing effects. Aviation, 27(4), 234–241. https://doi.org/10.3846/aviation.2023.20229

Kulik, A., Dergachov, K., Pasichnik, S., & Sokol, D. (2022). Rational control of the temperature of vortex energy separator under destabilizing influence. Radioelectronic and Computer Systems, 3(103), 47–66. https://doi.org/10.32620/reks.2022.3.04

Kulik, A. S., Pasichnik, S. N., & Sokol, D. V. (2022). Investigation of stationary processes in vortex energy separator through its computational fluid dynamics model. In Lecture Notes in Networks and Systems (Vol. 344, pp. 105–114). Springer. https://doi.org/10.1007/978-3-030-89902-8_8

Kulik, A., Dergachov, K., Pasichnik, S., Dzhulgakov, V., & Petrenko, V. (2022). Rational control of the operability of the model unit of electric flywheel motors under destabilizing effects. In Lecture Notes in Networks and Systems (Vol. 367, pp. 415–436). Springer. https://doi.org/10.1007/978-3-030-94259-5_36

Kulik, A., Dergachov, K., Pasichnik, S., & Yashin, S. (2021). Motions models of a two-wheeled experimental sample. Radioelectronic and Computer Systems, 1(97), 40–49. https://doi.org/10.32620/reks.2021.1.03

Kulik, A. S., Dergachev, K. Yu., Pasichnik, S. N., Nemshilov, Yu. A., & Filippovich, E. V. (2021). Algorithms for control of longitudinal motion of a two-wheel experimental sample. Radioelectronic and

Computer Systems, 6(102), 1–14. https://doi.org/10.32620/reks.2021.2.02

ADDITIONAL INFORMATION:

Language Proficiency:
Ukrainian (native), English (intermediate)

Standard software set & platforms:
Microsoft Office, Excel, Powerpoint, Zoom, Google meet