



Name	Olena Murahovska
Position, Department/Faculty	Senior lecturer/National Aerospace University Kharkov Aviation Institut/ Faculty of Rocket and Space Engineering/ Department of Higher Mathematics and Systems Analysis
Academic Degree, Academic Title	-
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Web of Science ResearcherID:	HIA-0690-2022
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Google Scholar:	https://scholar.google.com.ua/citations?user=lo0HCv0AAAAAJ&hl=ru
ResearchGate:	[посилання]

EDUCATION:

Basic education (university, major, year of graduation):

Kharkiv National University [01/09/1990 – 30/06/1995]

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Senior lecturer/National Aerospace University Kharkov Aviation Institut/ Faculty of Rocket and Space Engineering/ Department of Higher Mathematics and Systems Analysis

Teaching Experience:

Teaching experience since 1995.

RESEARCH ACTIVITIES:

Main Research Areas:

Conceptual design of complex technical systems under uncertainty

Number of Publications (Scopus, WoS, others):

Over 20 scientific publications, including indexed articles in Scopus and Web of Science databases; multiple conference proceedings and applied research outputs.

Monographs, Textbooks:

Co-author of 2 textbooks and 9 methodological manuals in the field of mathematics, probability theory, numerical methods, fuzzy set theory and fuzzy logic, as well as conceptual design of complex technical systems

Participation in Scientific Conferences:

Regular participant (more 25) and speaker at international and national scientific conferences on conceptual design of complex technical systems



TEACHING ACTIVITIES:

Courses Taught:

Higher mathematics, linear algebra and analytic geometry, mathematical analysis, probability theory and mathematical statistics, numerical methods, control theory and forecasting under uncertainty

Author Courses, Academic Programs:

Author of the course «Control theory and forecasting under uncertainty»

Methodological Materials, Textbooks:

Co-author of 2 textbooks and 9 methodological manuals in the field of mathematics, probability theory, numerical methods, fuzzy set theory and fuzzy logic, as well as conceptual design of complex technical systems

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Membership in Professional Associations:

Participation in the work of the Ukrainian Scientific and Educational IT Society (certificate No. 21-00044 FS dated 06/16/2021)

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

O. A. Murahovskay Designing the Set of Flight Experiments for Exploration of Critical Flight Conditions in Case Failure and Damage of Lifting and Control Aircraft Components with a Point of View of Systems Approach/ O. A. Murahovskay, O. I. Ryzhenko // Otkrytye informatsionnye i komp'yuternye tekhnologii. – Kh.: Nats. aerokosm. un-t "Khark. aviats. in-t", 2018. – Vyp. 79. s. 140–14

N. Ukrainets Solving a one mixed problem in elasticity theory for half-space with a cylindrical cavity by the generalized fourier method / N. Ukrainets, O. Murahovska, O. Prohorova// Eastern-European journal of enterprise technologies. — Вип. 2/7 (110) 2021. С. 48-57. Murakhovska O. A. Analiz zastosuvannya metodiv statystychnoi obrobky ekspertnykh otsinok na etapi poperednoho proektuvannya skladnykh tekhnichnykh prystroiv / O. A. Murakhovska, N. A. Ukrainets // Systemy upravlinnia, navihatsii ta zv'iazku. – 2022. – № 3 (69). – S. 39–44. doi: 10.26906/SUNZ.2022.3.039

<http://journals.nupp.edu.ua/sunz/issue/view/90/50>

Murakhovska O. A. Algorytm vyznachennia otsinky efektyvnosti litalnykh aparativ transportnoi kategorii / O. A. Murakhovska, N. A. Ukrainets // Systemy upravlinnia, navihatsii ta zv'iazku. – 2022. – № 4 (70). – S. 10–15. doi: 10.26906/SUNZ.2022.4.010

<http://journals.nupp.edu.ua/sunz/issue/view/96/54>



Murakhovska O. A. Osoblyvosti otsiniuvannia efektyvnosti vyivlennia nazemnykh ob'ektiv bezpilotnym litalnym aparatom tsyvilnoho pryznachennia / O. A. Murakhovska // Tekhnichni nauky ta tekhnolohii. – 2022. – № 4 (30). – S. 121–129. doi: 10.25140/2411-5363-2022-4(30)-121-129

<http://tst.stu.cn.ua/issue/view/16418/9204>

Murakhovska O. A. Systemno-spriamovanyi pidkhid analizu mozhlyvykh metodiv doslidzhennia aerodynamichnoi zhyvuchosti litaka / O. A. Murakhovska // Systemy upravlinnia, navhatsii ta zv'iazku. – 2023. – № 2 (72). – S. 26–30. doi: 10.26906/SUNZ.2023.2.026
<http://journals.nupp.edu.ua/sunz/issue/view/104/57>

Books, Chapters in Collective Monographs:

Murakhovska O. A., Ryzhenko O. I. Matematychni modeliuvannia ekonomichnykh zadach. – Navch. posibnyk do laboratornoho praktykumu. – Kharkiv: Nats. aerokosmichniy un-t "Khark. aviats. in-t", 2002. – 50 s.

Murakhovska O. A. Upravlinnia skladnymy systemamy v umovakh nevyznachenosti: navch. posib. / O. A. Murakhovska. – Kh.: Nats. aerokosm. un-t "Khark. aviats. in-t", 2010. – 88 s.

Ryzhenko E. I., Babak I. N., Murakhovskaia E. A. Chislennye metody: lab. praktykum [Tekst]. – Kh.: Nats. aerokosm. un-t im. N. E. Zhukovskogo "Kharkov. aviats. in-t", 2015. – 104 s.

Boguslaev V. A., Krivtsov V. S., Ryzhenko A. I., Murakhovskaia E. A., Tsukanov R. Yu. Osnovnye kontseptsii razvitiia sovremennoi aerokosmicheskoi tekhniki [Tekst]. – Kharkov: Nats. aerokosm. un-t im. N. E. Zhukovskogo "Kharkov. aviats. in-t", 2017. – 672 s.

Boguslaev V. A., Ryzhenko A. I., Murakhovskaia E. A., Tsukanov R. Yu. Kontseptsii razvitiia sovremennoi aviatsionnoi tekhniki osnovnykh naznachenii [Tekst]: innovats. ucheb. dlia neaviatsionnykh spetsialnostei aerokosm. un-ta. – Zaporizhzhia: Prosvita, 2020. – 707 s.

Murakhovska O. A., Ukrainets N. A. Teoriia upravlinnia ta prohnozuvannia v umovakh nevyznachenosti [Elektronnyi resurs]: navch. posib. – Kharkiv: Nats. aerokosm. un-t im. M. Ye. Zhukovskoho "Kharkiv. aviats. in-t", 2020. – 142 s.

Kantemyr I. V., Murakhovska O. A., Ukrainets N. A. Teoriia ymovirnostei ta matematychna statystyka [Tekst]. – Kharkiv: Nats. aerokosm. un-t im. M. Ye. Zhukovskoho "Khark. aviats. in-t", 2021. – 155 s.

Kalchuk N. L., Murakhovska O. A., Ukrainets N. A., Shekhvatova O. M. Robochyi zoshyt z heometrii dlia slukhachiv fizyko-matematychnoi shkoly KhAI. Chastyna 1 [Tekst]. – Kharkiv: Nats. aerokosm. un-t im. M. Ye. Zhukovskoho "Khark. aviats. in-t", 2021. – 160 s.



Kalchuk N. L., Murakhovska O. A., Ukrainets N. A., Shekhvatova O. M. Robochyi zoshyt z alhebry dlia slukhachiv fizyko-matematychnoi shkoly KhAI. Chastyna 1 \[Tekst]. – Kharkiv: Nats. aerokosm. un-t im. M. Ye. Zhukovskoho "Khark. aviats. in-t", 2021. – 160 s.

Bakhmet H. K., Murakhovska O. A., Ukrainets N. A. Konfliktno-kerovani systemy \[Tekst]: navch. posib. Ch. 1 / H. K. Bakhmet, O. A. Murakhovska, N. A. Ukrainets. – Kharkiv: Nats. aerokosm. un-t im. M. Ye. Zhukovskoho "Kharkiv. aviats. in-t", 2021. – 144 s.

Drashpul N. V., Kalchuk N. L., Murakhovska O. A., Prokhorova O. M., Ukrainets N. A. Matematyka \[Elektronnyi resurs]: navch. posib. dlia slukhachiv pidhotovchoho viddilennia, fiz.-mat. shkoly KhAI. Ch. 1. – Kharkiv: Nats. aerokosm. un-t im. M. Ye. Zhukovskoho "Kharkiv. aviats. in-t", 2024. – 176 s.

ADDITIONAL INFORMATION:

Language Proficiency:
Ukrainian

IT Skills:

Microsoft Office / Microsoft Excel / Social Media / Zoom / Google Drive / Microsoft Powerpoint / Skype / Organizational and planning skills