Name	Liudmyla Kapitanova
Position, Department/Faculty	Professor at the Department of Airplane and Helicopter Design, Vise Dean of the Aircraft Engineering Faculty / Department of Airplane and Helicopter Design / Faculty of Aircraft Engineering
Academic Degree, Academic Title	Doctor of Technical Science, Associate Professor
Email:	l.kapitanova@khai.edu
Scopus Author ID:	57218556745.
Web of Science ResearcherID:	[ID]
ORCID iD:	0000-0003-3878-6734
Google Scholar:	https://scholar.google.com/citations?hl=ru&user=C1H94VAAAAAJ&view_op=list_works&gmla=AH8HC4yjFzPGocjG5YRfIblQnZCWm7bb9GpwPwRZlVlc_AZhSEQ1l5u_sKEGR2GvPuB4hhIvk-iQENrBdSdlgSFeTPQQ9KPXjuseAvbwcfCeQA
ResearchGate:	https://www.researchgate.net/profile/Liudmyla-Kapitanova?ev=hdr_xprf

EDUCATION:

Basic education (university, major, year of graduation):
Kharkiv Aviation Institute, Aircraft and Helicopter Construction, 1996

Postgraduate/Doctoral studies:
Postgraduate: Kharkiv Aviation Institute, postgraduate study at the Department of Aircraft and Helicopter Design, Faculty of Aircraft Engineering, 1999

Additional training, certification programs:
- 2023 – Erasmus+KA107 STT Certificate of Istanbul University, Turkey, Istanbul. July 2023. Topic: “Design and construction of aircraft and helicopter structures. Improving the takeoff and landing characteristics of a transport category aircraft”. issued 08.08.2023.
- 2023 – Certificate Baltic International Academy, Riga, The Republic of Latvia. “Challenges of Distance Learning When Obtaining Higher Engineering Education” 6 credits, 180 hours, from 04/09/2023.

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):
National Aerospace University «kharkiv Aviation Institute»: Leading Engineer of the CAD/CAM/CAE Research and Training Center (1999-2000), Assistant Professor (2000-2002), Senior Lecturer (2002-2003), Associate Professor (2003-2023), Professor of the Department of Airplane and Helicopter

Design (2023- present)

Teaching Experience:

- 26 years of teaching experience at the university, from assistant to professor in the Department of Airplane and Helicopter Design (2000- present);
- served as Deputy Dean of the Faculty of Aircraft Engineering for Science (2000-2004), for Educational and Methodological Work (2004-present at the National Aerospace University «kharkiv Aviation Institute»

Experience in International or National Projects:

- I was engaged in scientific work in cooperation with such industrial enterprises as SE "Antonov", LLC "Progrestech-Ukraine", Research Institute of PFM
- In 2023, she completed 2 international internships: under the Erasmus+ Academic Mobility Program for Khai teachers from Istanbul Technical University, in Istanbul, Turkey, and in Latvia.

RESEARCH ACTIVITIES:

Main Research Areas:

- Models for the formation of masses of transport category aircraft have been developed and partially implemented with a partial change in outdated parameters and the preservation of the perfect characteristics of the base aircraft, which will significantly reduce the design and commissioning time of a new aircraft modification and significantly reduce the cost of expenses.
- Design of modifications of transport aircraft and unmanned aerial vehicles.
- Formation of methods for designing aircraft structures from composite materials based on stochastic (probabilistic) models

Number of Publications (Scopus, WoS, others):

Scopus and WoS -3, others – more 130

Monographs, Textbooks:

Published 2 textbooks on aircraft chassis design, 1 collective monograph.

Participation in Scientific Conferences:

Participated in many international conferences (Japan, Latvia, Poland, China, Spain, Canada, Austria, Australia) (OVER 100 conferences).

1. Riabkov V. I., Kapitanova L. V., Kirnosov D.S.
Modeling of the aircraft parachuting during the landing // Scientific research in the modern world. Proceedings of the 11th International scientific and practical conference. Perfect Publishing. Toronto, Canada. 2023. Pp. 120-125.
URL: https://sci-conf.com.ua/xi-mizhnarodna-naukovo-praktichna-konferentsiya-scientific-research-in-the-modern-world-24-26-08-2023-toronto-kanada-arhiv/.
ISBN 978-1-4879-3795-9

2. Riabkov V. I., Kapitanova L.V. Kirnosov D.S.
Aircraft parachuting simulation during the landing // Scientific research in the modern world. Proceedings of the 12th International scientific and practical conference. CPN Publishing Group. Osaka, Japan. 2023. Pp. 57-62. URL: https://sci-conf.com.ua/xii-mizhnarodna-naukovo-praktichna-konferentsiya-science-and-technology-problems-prospects-and-innovations-1-3-09-2023-osaka-yaponiya-arhiv/
ISBN 978-4-9783419-1-4

3. Капітанова Л. В. Метод оцінки впливу додаткових енергетичних камер (ДЕК) у стійках шасі

на ефективність літака транспортної категорії [Електронний ресурс] // Авіація, промисловість, суспільство : матеріали IV Міжнар. наук.-практ. конф., Кременчук, 18 трав. 2023 р. Харків, 2023. С. 270–272.

URL: https://dspace.univd.edu.ua/handle/123456789/16985

URL: file:///E:/Downloads/Aviatsiia%20promyslovist%20suspilstvo_2023%20(1).pdf

ISBN 978-966-610-270-9

4. Капітанова Л. В., Рябков В. І., Лось О. В. Аналіз змін мас модифікацій середньо-транспортних літаків та їх вплив на злітно-посадкові параметри модифікацій // XXIII Міжнародний конгрес двигунобудівників : тези доп., Миколаїв, Коблево, 8–11 верес. 2020 г. Харків, 2020. С. 11.

TEACHING ACTIVITIES:

Courses Taught:

Design and construction of control systems and chassis of airplanes and helicopters. Scientific research, Pedagogical internship

Author Courses, Academic Programs:

Controlling unmanned vehicles, Student research work

Methodological Materials, Textbooks:

1. Проектування шасі літаків : підручник / І. В. Рябков, В. А. Трофімов, В. М. Павленко, М. Г. Толмачьов, Л. В. Капітанова, Ю. В. Бабенко. Харків : ХАІ, 2011. 340 с.

ISBN 978-966-662-245-0.

URL: https://library.khai.edu/library/fulltexts/metod/RabkovProekyuvanna.pdf

2. Лабораторно-практичні роботи з курсу «Конструювання деталей, вузлів та агрегатів авіаційної техніки»: навч. посібник / Л. А. Малашенко, В. Л. Малашенко, Л. І. Лосєв, Л. В. Капітанова, В. І. Рябков; за заг. ред. Л. О. Малашенко. Харків : ХАі, 2012. 188 с.

URL: https://library.khai.edu/library/fulltexts/metod/Laboratorno_Prakticheskie.pdf

3. Вибір параметрів та експлуатація авіаційних коліс з урахуванням особливостей шин та гальм / В. І. Рябков, Л. В. Капітанова, Д. В. Тиняков, Н. Г. Толмачов. Харків : ХАІ, 2014. 85 с.

URL: https://library.khai.edu/library/fulltexts/metod/Rabkov_Vibor_Parametrov.pdf

4. Капітанова Л. В., Рябков В. І. Будова та проєктування механічних каналів основного управління літаків : навч. посіб. Харків: ХАІ, 2022. 130 с.

ISBN 978-966-662-896-4

URL: https://library.khai.edu/library/fulltexts/metod/Kapitanova_Budova.pdf

GRANTS AND PROJECTS:

Participation in International and National Projects:

Participates in scientific state topics of the National Aerospace University "Kharkiv Aviation Institute", which is confirmed by the relevant acts in 2017-2021, 2025.

Grants, Scholarships, Academic Mobility Programs:

Erasmus+KA107 STT Certificate of Istanbul University, Turkey, Istanbul. July 2023. Topic: “Design and construction of aircraft and helicopter structures. Improving the takeoff and landing

characteristics of a transport category aircraft". issued 08.08.2023.

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Distinctions, Awards, Prizes:

- Awarded the Diploma of the Engineering Academy of Ukraine.

For outstanding contribution to the development of science, technology and engineering Resolution of the Presidium of the Engineering Academy of Ukraine No. 111 dated 10.09.2024.

- Awarded with the Certificate of Honor No. 1054 of the Kharkiv City Council (2024) for conscientious and fruitful work, high professionalism, significant contribution to the development of education and science in the city of Kharkiv and on the occasion of the Day of Workers of the Rocket and Space Industry of Ukraine.

- By order No. 651-VK dated 05/11/2023 at Khai.

For high-quality, effective work, professional skills, many years of impeccable work and personal contribution to the overall results of the educational, educational and methodological activities of the university, and in connection with the anniversary of the birthday - to declare gratitude (By order No. 651-VK dated 05/11/2023 at Khai).

_ Awarded with diplomas, including: Diploma from the regional state administration of the Second regional competition "The Best Young Scientist of the Kharkiv Region" in the field of mechanical engineering (2007); winner of the competition "Icarus Khai" (1st place) in the nomination "Student Mentor" (2015).

Membership in Professional Associations:

Association of Education and Science Workers, Kharkiv Aeroclub

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Tiniakov D., Kapitanova L., Makarova L. Analysis of the specific fuel efficiency for preliminary design stage of transport category aircraft variant // IEEE 8th International Conference on Mechanical Engineering and Automation Science. ICMEAS'2022 : proceedings, Wuhan, China, 14–16 Oct. 2022. [S. l.], 2022. P. 252–256. Scopus

DOI: 10.1109/ICMEAS57305.2022.00054

2. Issue of Airplane Modification Mass Variations Based on Their Structural Modeling / V. Riabkov, R. Tsukanov, O. Dveirin, L. Kapitanova, M. Kyrylenko // 16th International Scientific-practical Conference on Mathematical Modeling and Simulation of Systems. MODS'2021 : proceedings, Chernihiv, 28 June – 1 July 2021. Cham : Springer, 2021. P. 437–450. (Lecture Notes in Networks and Systems ; vol. 344. ISSN 2367-3370). Scopus

DOI: 10.1007/978-3-030-89902-8_32

URL: https://www.springerprofessional.de/en/issue-of-airplane-modification-mass-variations-based-on-their-st/20162386

3. Kapitanova L., Ryabkov V., Tsukanov R., Los O. Formathion Method for Transport Category Airplane Modification Main Parameters by Their Adduced Values // Інтегровані комп'ютерні технології в машинобудуванні. ІКТМ'2020 = Integrated Computer Technologies in Mechanical Engineerin. ICTM'2020 : тези доп. Міжнар. наук.-практ. конф., 29–30 жовт. 2020. Харків, 2020. С. 46–49. Scopus

4. Порівняльна оцінка модифікацій літаків транспортної категорії за частковими та інтегральними показниками ефективності / В. І. Рябков, А. З. Двейрін, Л. В. Капітанова, К. В. Майорова // Авіаційно-космічна техніка і технологія. 2021. № 3 (171). С. 4–12.

DOI: 10.32620/aktt.2021.3.01
URL: http://195.88.72.95:57772/csp/nauchportal/Arhiv/AKTT/2021/AKTT321/Dveyrin.pdf
ISSN 1727-7337, eISSN 2663-2217

Books, Chapters in Collective Monographs:

- Рябков, В. І. Проектування шасі літаків [Текст] : підручник / В. І. Рябков, Л. В. Капітанова, В. А. Тіт. – 2-ге вид., випр. та доп. – Харків : ХАІ, 2023. – 360 с. – ISBN 978-966-662-245-0. –
URL: https://library.khai.edu/library/fulltexts/metod/Riabkov_Proektuvanna_Shasi.pdf
- Капітанова Л. В. Методи та засоби формування основних параметрів модифікацій літаків транспортної категорії за детермінованими характеристиками зльоту та посадки // Наукове оточення сучасної людини: Техніка та технології: коллект. моногр. Одеса : Купрієнко С. В., 2018. С. 7–40.

ADDITIONAL INFORMATION:

Language Proficiency:
Ukrainian, English, Russian

IT Skills:
Yes

Social and Community Activities
Active