

## Curriculum Vitae

### Name

*Lesia Fedik*

### Family status

single

### Date of Birth

27.10.1970

### Place of Birth

Holoby - Ukraine

### Position

PhD / Associate Professor  
l.fedik@lutsk-ntu.com.ua



## DEGREES RECEIVED:

<u>Degree</u>	<u>Institution</u>	<u>Department</u>	<u>Year</u>
MSc	Lutsk State Technical University (Ukraine)	Software and Application Development and Analysis Mechanization of agricultural production	2022-2024  2000

## WORK EXPERIENCE:

<u>Rank/Position</u>	<u>Dates</u>	<u>Department</u>	<u>Institution/Company name</u>
Associate Professor of the Department of <u>Automation and Computer-Integrated Technologies, LNTU</u>	from 2006 to present	<u>Faculty of Computer and Information Sciences</u>	Lutsk National Technical University (Ukraine)
PhD in Technical Science	1995-1998	Mechanization of agricultural production	Lutsk Biotechnical University
Senior lecturer	2000-2006	Eco-Business	

## INTERNSHIPS:

25.10.2021-25.12.2021 Professional development in the field of the department's work at the National University «Chernihiv polytechnic»

## NUMBER OF WORKS PUBLISHED IN SCIENTIFIC JOURNALS AND CONFERENCE PROCEEDINGS:

<https://orcid.org/0000-0001-7505-3789>

total 74 publications including,

50 - publications in scientific journals and in the Conference Scripts

1 – monographs, 4 – textbook, 4 - invention and utility model patents

## TOPICS OF NEW RESEARCH PROJECTS:

Development and optimization of intelligent automation systems, mechatronic devices, and unmanned technologies based on modern computer-integrated solutions aimed at innovations in robotics, aviation, and automated design.

## RESEARCH EXPERTISE:

- Development of intelligent algorithms for automated systems and mechatronic devices.
- Integration of computer-integrated solutions in the design of unmanned aerial vehicles.
- Optimization of robotic system parameters for specialized tasks.
- Analysis and modeling of the mechanical behavior of innovative materials in automation systems.
- Engineering approaches to the development of environmentally friendly mechatronic devices.
- Research into the interaction of mechanical and electronic components in robotic systems.
- Application of additive technologies for creating automated structures.

## **TEACHING COURSES:**

«Robotics and Intelligent Mechatronic Devices», «Automation of the Design of Electrical and Electronic Devices», «Design of Automation Systems», «Design of Unmanned Aerial Vehicles»

## **PERSONAL SKILLS AND COMPETENCES**

### **Languages:**

**Ukrainian** native language

**English** basic knowledges

**Polish** basic knowledges

**ORCID ID:** <https://orcid.org/0000-0001-7505-3789>

**Scopus** <https://www.scopus.com/results/authorNamesList.uri?sort=count-f&src=al&sid=f75109f9bc46d6b2dbfb3ed87978f401&sot=al&sdt=al&sl=40&s=AUTHLASTNAME%28Fedik%29+AND+AUTHFIRST%28Lesya%29&st1=Fedik&st2=Lesya&orcidId=&selectionPageSearch=anl&reselectAuthor=false&activeFlag=true&showDocument=false&resultsPerPage=20&offset=1&jtp=false&currentPage=1&previousSelectionCount=0&tooManySelections=false&previousResultCount=0&authSubject=LFSC&authSubject=HLSC&authSubject=PHSC&authSubject=SOSC&exactAuthorSearch=false&showFullList=false&authorPreferredName=&origin=searchauthorfreelookup&affiliationId=&txGid=8a7f5a8a0c548e34d7d2a76817155110>

### **GoogleScholar:**

[https://scholar.google.com.ua/citations?hl=uk&view\\_op=list\\_works&gmla=ANZ5fUMScIrMwrECiQc46pzKrWJ1mW527isAABnP5E9YGGNrZuFbOnUHQ30Gg9J1swF1S3-x2ep7VoXesAVzDvqCfxUadH15deI4hb9Qa2n7aOLXuCnnTXCGSrhcO9wHvmOetI4&user=8FgQDE4AAAAJ](https://scholar.google.com.ua/citations?hl=uk&view_op=list_works&gmla=ANZ5fUMScIrMwrECiQc46pzKrWJ1mW527isAABnP5E9YGGNrZuFbOnUHQ30Gg9J1swF1S3-x2ep7VoXesAVzDvqCfxUadH15deI4hb9Qa2n7aOLXuCnnTXCGSrhcO9wHvmOetI4&user=8FgQDE4AAAAJ)

**List of keywords:** robotics, mechatronics, artificial intelligence, automation, design, electrical systems, CAD/CAE technologies, process control, unmanned aerial vehicles, aviation technologies.