



<b>Name</b>	Dehtiarova Tetiana
<b>Position, department, facility</b>	Senior Lecturer, Department of Software Engineering Faculty of Software Engineering and Business
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<b>ResearchGate</b>	

National Aerospace University Kharkov Aviation Institute: Kharkov, UA

National Aerospace University Kharkov Aviation Institute

## EDUCATION:

**Basic education (university, major, year of graduation):** Master of Engineering (Industrial control system) . Kharkov Aviation Institute "KHAII" [ 01/09/1974 – 28/02/1979 ]

**Additional training, certification programs:**

## WORK EXPERIENCE:

Engineer, Category III, Department of Automated Production Control Systems (ASUP), Research and Production Association "Kommunar" [1979–1980], Engineer, Category II, ASUP Department, RPA "Kommunar" [1980–1985], Engineer, Category I, ASUP Department, RPA "Kommunar" [1985–1988], Mathematician, ASUP Department, RPA "Kommunar" [1988–1989], Programmer, Category II, ASUP Department, RPA "Kommunar" [1989–1992], Leading Software Engineer, ASUP Department, RPA "Kommunar" [1992–1999], Teaching Assistant, Department of Software for Computer Systems [1998–1999], Senior Lecturer, Department of Software for Computer Systems [1999–2025].

## RESEARCH ACTIVITIES:

### Main Research Areas:

Focused on modern Internet of Things (IoT) solutions for business, emphasizing the integration of IoT devices with cloud-based services. Research includes the development of smart systems for data acquisition, remote monitoring, and process optimization across various industries. Special attention is given to the role of IoT in enhancing operational efficiency, enabling digital transformation, and supporting strategic decision-making in contemporary business environments.

### Number of Publications (Scopus, WoS, others):

Over 10 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 monographs on the banking system during a crisis period, focusing on financial stability, regulatory responses, and institutional resilience.



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**Participation in Scientific Conferences:**

Regular participant in international and national scientific conferences on information technologies (Ukraine, Poland, Bulgaria).

**TEACHING ACTIVITIES:**

**Courses Taught:**

UI/UX Design, Computer Discrete Mathematics, Software Construction, Software Quality and Testing, Software Requirements Analysis, Software and Data Security.

**Author Courses, Academic Programs:**

Software Design Technology/



development model for universities: Mechanisms of integration and efficiency. *Eastern-European Journal of Enterprise Technologies*, 3(13), 47–59. <https://doi.org/10.15587/1729-4061.2025.329997>

Shevchenko, I., Haraev, M., Krysovatty, I., & Kurtsev, O. (2024). The digital investment platform as a means of forming and implementing an investment project of a railway company. In Yang, X. S., Sherratt, S., Dey, N., & Joshi, A. (Eds.), *Proceedings of Ninth International Congress on Information and Communication Technology (ICICT 2024)*. Lecture Notes in Networks and Systems, vol. 1014. Springer, Singapore. [https://doi.org/10.1007/978-981-97-3562-4\\_36](https://doi.org/10.1007/978-981-97-3562-4_36)

Boichenko, E., Martynovych, N., & Shevchenko, I. (2021). Cognitive modeling concepts of sustainable development of society. *Problemy Ekorozwoju – Problems of Sustainable Development*, 16(2), 158–165. <https://doi.org/10.35784/pe.2021.2.16>

Shevchenko, I., Rusina, Y., Filipishyna, L., Marushchak, S., & Pustovoit, O. (2023). Comercio digital en mercados globales. *REICE – Revista Electrónica De Investigación En Ciencias Económicas*, 11(21), 19–32. <https://doi.org/10.5377/reice.v11i21.16517>

Shevchenko, I., Lysak, O., Zaliavska-Shyshak, A., Mazur, I., Korotun, M., & Nestor, V. (2023). Digital economy in a global context: World experience. *International Journal of Professional Business Review*, 8(4), 1–16. <https://doi.org/10.26668/businessreview/2023.v8i4.1551>

Arefiev, S., Shevchenko, I. O., Savkiv, U., & Hovsieiev, D. (2023). Management of the global competitiveness of companies in the field of electronic commerce in the conditions of digitalization. *Journal of Theoretical and Applied Information Technology*, 101(4), 1527–1537. <https://www.jatit.org/volumes/Vol101No4/31Vol101No4.pdf>

Shevchenko, I. O., Liubokhynets, L., Zvarych, I., Brodovska, O., & Bril, M. (2023). Antifragile in the global economy as an indicator of economic development. *Financial and Credit Activity Problems of Theory and Practice*, 6(53), 274–286. <https://doi.org/10.55643/fcaptp.6.53.2023.4203>

Krysovatty, A., Zvarych, I., Brodovska, O., Shevchenko, I., & Krasnorutskyy, O. (2023). Development of inclusive economy as the basis of economic growth of the global economy. *TEM Journal*, 12(2), 936–947. [https://www.temjournal.com/content/122/TEMJournalMay2023\\_936\\_947.pdf](https://www.temjournal.com/content/122/TEMJournalMay2023_936_947.pdf)

Shevchenko, I., Zavadskykh, H., Ptashchenko, O., Zvonar, V., & Vishka, I. (2023). The application of digitization in the economy as a promising direction in the growth of human capital. *Economic Affairs*, 68(1), 345–352. <https://doi.org/10.46852/0424-2513.1s.2023.37>

Zybareva, O., Shevchenko, I., Tulchynska, S., Popov, O., & Yangulov, E. (2022). Assessment of spatial challenges of the economic security system of industrial enterprises. *International Journal of Safety and Security Engineering*, 12(4), 421–428. <https://doi.org/10.18280/ijss.120402>

#### **Books, Chapters in Collective Monographs:**

Shevchenko, I. O. (2025). *Tsifrova torhivlia [Digital Trade]*. Kharkiv: National Aerospace University “Kharkiv Aviation Institute”.

Shevchenko, I. O. (2023). *Harmonizatsiia tsyfrovoy torhivli na hlobalnykh rynkakh: ukrainskyi ta mizhnarodnyi dosvid*. Ternopil: ZUNU.

Shevchenko, I. O., Dikan, L. V., & Kozhushko, O. V. (2015). *Derzhavnyi finansovyi audyt v Ukraini: teoretyko-metodychni zasady otsinky yakosti*. In *Reformuvannia finansovoho kontroliu v Ukraini*. Kharkiv: KhNEU.

Shevchenko, I. O., Dikan, L. V., & Kozhushko, O. V. (2016). *Kontrol v biudzhethnykh ustanovakh: teoriia ta praktyka*. Kharkiv: KhNEU. **NATIONAL AEROSPACE UNIVERSITY «KHARKIV AVIATION INSTITUTE»**



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## **ADDITIONAL INFORMATION:**

### **Language Proficiency:**

Ukrainian, English

### **IT Skills:**

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

### **Social and Community Activities:**

Charity during the full-scale invasion of Russia.

Responsible for promoting and coordinating gender equality policies at the National Aerospace University "Kharkiv Aviation Institute", organizing events, trainings, and awareness campaigns, and ensuring institutional alignment with European standards on inclusion and diversity.