

# The library services for improvement of information ecology at the university

## Послуги та сервіси бібліотеки для поліпшення інформаційної екології університету



# Information ecology

" ... a system of people, practices, values, and technologies in a particular local environment.

" ...libraries are taken as examples of information ecologies comprising "a surprising variety of services and resources" where librarians themselves are examples of a keystone species, crucial to the overall success of the ecosystem but perhaps invisible to their patrons.

————— BONNIE A. NARDI AND VICKI L. O'DAY



## Igor Sikorsky Kyiv Polytechnic Institute

Founded in Kyiv in 1898

~ 25,000 students

16 faculties, 11 educational  
and scientific institutes

~ 380,000 graduates



## Library in institutional ecology.

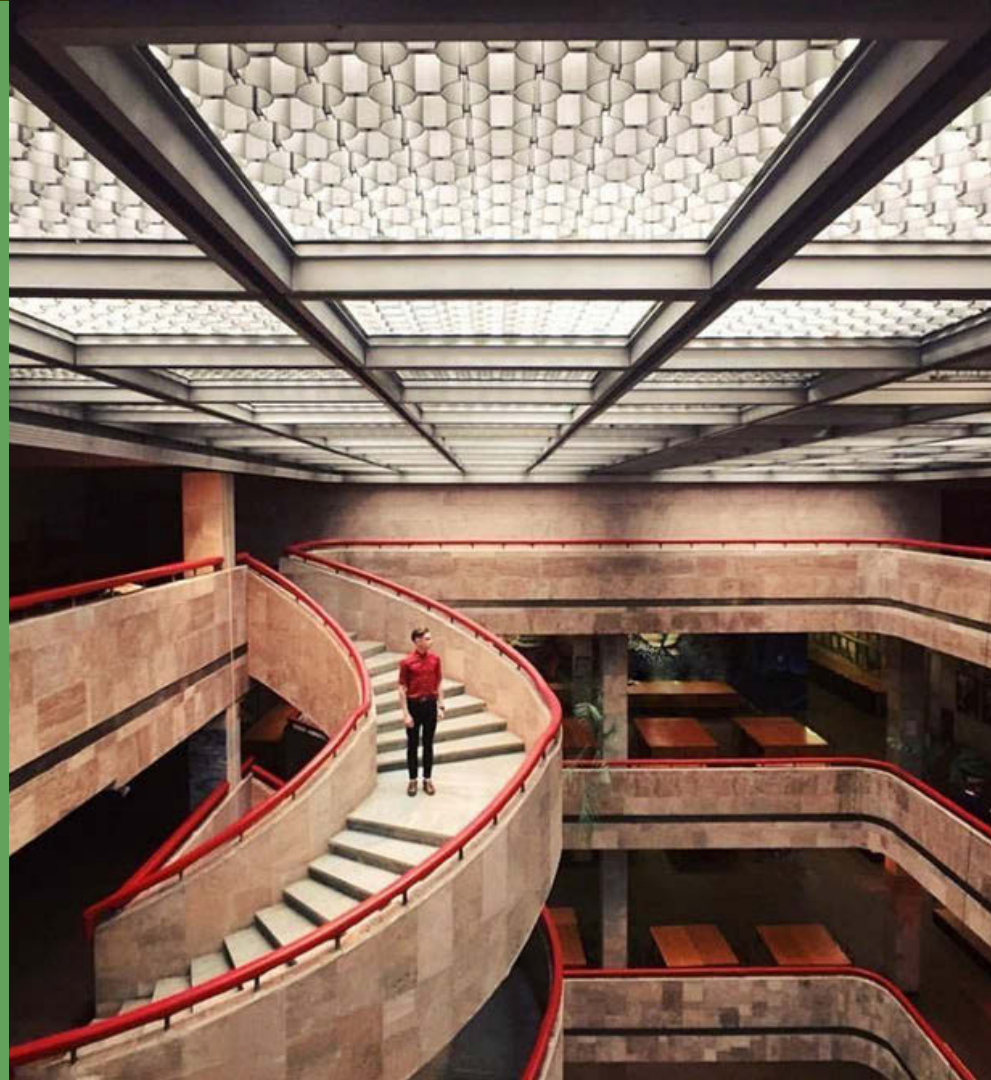
## Scientific and Technical Library.

Print collection ~ 2,400,000

Institutional repository ~  
42,000

Users ~ 25,000

Virtual visits ~ 7,000,000



## Institutional ecology.

Administration

Structural subdivisions

Infrastructure

Researchers:

students

teachers

scientists



# Academic library

# Knowledge ecosystem

Google Scholar



# Academic library

as example of information ecology:

## Administration

- partnership for the development of education and science
- formation of values
- analytical, statistical information for decision-making
- ...

## Structural subdivisions

- information support of university education and research processes
- up-to-date collection of information resources
- information for accreditation of educational programs
- service "Subject Librarian"
- information literacy
- academic integrity

## Infrastructure

- creative, comfortable, safe environment that supports research
- web-site
- electronic catalog
- Catalog+ (VuFind)
- electronic library
- ELAKPI – open electronic archive of scientific and educational materials
- publishing platform

## Researchers

- comfortable, safe, accessible physical space
- educational, scientific resources
- interlibrary services and document delivery
- consultations
- educational and scientific activities
- tours and exhibitions

## Academic library.

VS

## Other information ecology.

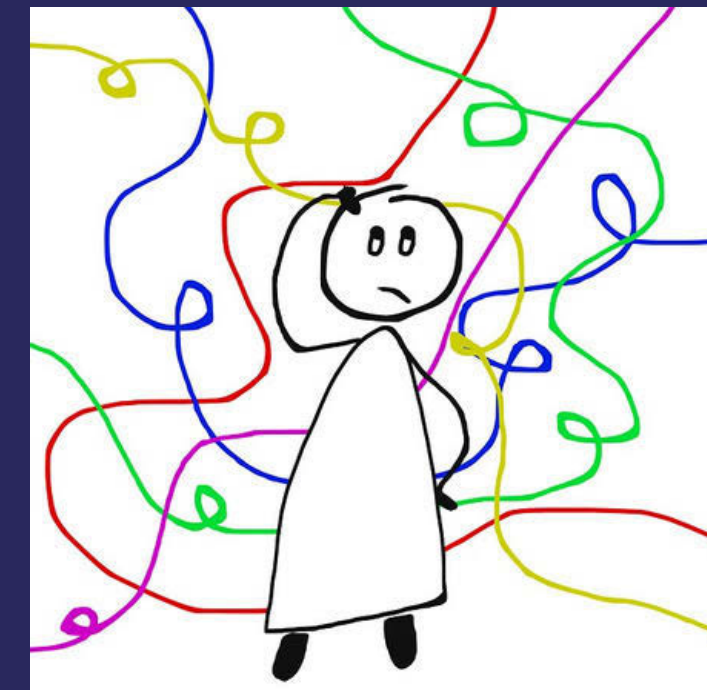
### Up-to-date collection of information resources

- The library is in an institutional context
- Educational and scientific resources correspond to the educational program and directions of scientific research
- Remote access to licensed prepaid resources + Open Access resources + Open educational resources
- Advise a book for purchase
- "Course reserve" service for quick and convenient access for students to all recommended sources for learning particular courses
- Subject librarians select resources for syllabuses of the course



### Search engine, providers of educational and scientific information

- Complex information environment
- Significant time spent on searching for relevant resources
- It is difficult to assess quality and select resources
- Commercial content
- Predatory publications



# Comfortable, safe, accessible physical space

- Information
- Consultations
- Educational activities



# Comfortable, safe, accessible virtual space

<https://www.library.kpi.ua>

● internal resources

● external resources

The screenshot shows the KPI Library website interface. At the top, there is a navigation menu with links for Teaching, Research, Resources, Services, Announcements, and News. Below the menu is a search bar with the placeholder text "Enter search term". To the right of the search bar are links for "Opening Hours", "FAQ", and "Subscribe to newsletter". Below the search bar are five icons representing different services: "Registration", "Organize an event", "Support the library", "Order an e-copy", and "Order consultation or study".

In the center, there is a banner for "Clarivate webinars in September" with the Clarivate logo. Below the banner are social media icons for Facebook, Instagram, Telegram, and YouTube.

Below the social media icons is a section for "Announcements" with a red dot indicating a new announcement. There are three announcement cards: one about "КОСМІЧНА ІОНІЗУЮЧА РАДІАЦІЯ ТА БІОСФЕРА ЗЕМЛІ", one about a workshop "Воркшоп 'Інформаційна грамотність'", and one about "КОСМОС І Вплив космічної людини та умов".

Below the announcements is a section for "ELAKPI, the Electronic Archive of Igor Sikorsky Kyiv Polytechnic Institute". It includes a logo for ELAKPI and a welcome message: "Welcome to ELAKPI, the Electronic Archive of Igor Sikorsky Kyiv Polytechnic Institute, which collects, stores, distributes and provides long-term, permanent and reliable access to scientific works and educational materials of academic staff, workers, students, postgraduates and doctoral students of Igor Sikorsky Kyiv Polytechnic Institute." Below the welcome message are three links: "Order 'About the realization of the Program for the implementation of the Open access platform to scientific and educational information resources of NTUU 'KPI'", "Order 'On raising the level of coverage of the results of scientific researches and citation of scientific materials of NTUU 'KPI' scientists'", and "Regulations on ELAKPI – an open electronic archive of scientific and educational materials of NTUU 'KPI'". Below the links are three buttons: "Access to ELAKPI materials", "Uploading materials to ELAKPI", and "Contacts".

At the bottom, there is a section for "Communities in DSpace" and "Discover". The "Communities in DSpace" section has a heading "Choose a community to browse its collections." and two items: "COVID-19" with 78 items and "Анотовані описи звітів про НДР" with 472 items. The "Discover" section has a heading "Discover" and four filters: "Author" with "Зозульов, Олександр Вікторович" (128) and "Бідюк, Петро Іванович" (83); "Subject" with "моделювання" (417), "621.311" (347), and "машинне навчання" (320); and "Date issued" with "2020 - 2022" (11039), "2010 - 2019" (29733), and "2000 - 2009" (3622).

# Academic library.

# VS

# Other information ecology.

The screenshot shows the KPI Library Catalog+ website. At the top, there are navigation links: Search History, Forgot password?, Register, Classic Catalog, and KPI Library: Home. On the right, there are links for Feedback, 0 items, Login, and Language. The main search area contains a search box with the text 'Artificial Intelligence', a dropdown menu set to 'All Fields', a 'Find' button, and an 'Advanced' link. Below the search area, there are four columns of navigation options: 'Browse by Call Number' (listing categories 0-9), 'Browse by Language' (listing various languages and a 'More options...' link), 'Browse by Format' (listing various document formats and a 'More options...' link), and 'Browse by Source' (listing various sources). At the bottom, there are three sections: 'Search Options' (with links for Search History and Advanced Search), 'Find More' (with links for Browse the Catalog, Browse Alphabetically, Explore Channels, Course Reserves, and New Items), and 'Need Help?' (with links for Search Tips, Ask a Librarian, Interlibrary Loan, and FAQs).

Search system in all resources of the Library

<https://discovery.kpi.ua/>

# Catalog+

<https://discovery.kpi.ua>

- Library catalog
- ELAKPI – open electronic archive of scientific and educational materials
- arXiv
- Hindawi
- IntechOpen

Source
<a href="#">arXiv.org</a>
<a href="#">Hindawi</a>
<a href="#">Каталог</a>
<a href="#">ELAKPI</a>
<a href="#">IntechOpen</a>

# Catalog+

Search tips in the search bar

The screenshot shows the search bar of the KPI Library Catalog+ website. The search term 'Artificial Intelligence' is entered. Below the search bar, a dropdown menu displays several suggestions:

- Artificial Intelligence : With an Introduction to Machine Learning
- Is Intelligence Artificial?
- Artificial Intelligence : from Research to Application ; the Upper-Rhine Artificial Intelligence Symposium (UR-AI 2019)
- Perspective: Purposeful Failure in Artificial Life and Artificial Intelligence
- Introduction to Artificial Intelligence
- Artificial General Intelligence : 10th International Conference, AGI 2017, Melbourne, VIC, Australia, August 15-18, 2017, Proceedings
- Advances in Artificial Intelligence : 30th Canadian Conference on Artificial Intelligence, Canadian AI 2017, Edmonton, AB, Canada, May 16-19, 2017, Proceedings

On the right side of the suggestions, there are three columns of links for browsing:

- Browse by Language:** armenian, belarusian, bulgarian, czech, english, french, georgian, german, hungarian, italian, [more options...](#)
- Browse by Format:** Article, Book, Book Section, CDROM, Discipline program, eBook, Electronic, Journal, Learning Object, Manuscript, [More options...](#)
- Browse by Source:** arXiv.org, ELAKPI, Hindawi, IntechOpen, Katanor

Similar resources on the list of result levels

The screenshot shows the search results page for 'Artificial Intelligence' on the KPI Library Catalog+ website. The search bar contains 'Artificial Intelligence' and the search button is labeled 'Find'. The results page displays the following information:

- Search Results - Artificial Intelligence**
- Suggested Topics within your search:**
  - Computer Science - Artificial Intelligence (52,192)
  - Computer Science - Machine Learning (25,841)
  - Computer Science - Computer Vision and Pattern Recognition (9,445)
  - Computer Science - Computation and Language (8,091)
  - Statistics - Machine Learning (7,790)
  - Computer Science - Robotics (3,998)
  - Computer Science - Neural and Evolutionary Computing (2,916)
  - [more...](#)
- Showing 1 - 20 results of 62,797 for search 'Artificial Intelligence', query time: 1.58s
- Sort: Relevance
- Results:**
  - Intelligence in Artificial Intelligence** by Datta, Shoumen Palit Austin. Table of Contents: "...The elusive quest for intelligence in artificial intelligence prompts us to consider..." [Get full text](#). **Online Article**. [Add to Book Bag](#), [Save to List](#).
  - Artificial Intelligence : With an Introduction to Machine Learning**. Published 2020. Call Number: 004.8 N33. **Book Available**. [Add to Book Bag](#), [Save to List](#).
  - Is Intelligence Artificial ?** by Greer, Kieran. Table of Contents: "...Our understanding of intelligence is directed primarily at the human level. This paper attempts..." [Get full text](#). **Online Article**. [Add to Book Bag](#), [Save to List](#).
- Narrow Search:**
  - Format:** Online (61,970), Article (61,688), eBook (911), Thesis/Masters (78), Thesis/Bachelors (49), Book (39), [more...](#)
  - Year of Publication:** From: [ ] To: [ ] [Set](#)
  - Source:** arXiv.org (59,262), Hindawi (2,342)

# Catalog+

E-resources can be downloaded immediately

Traditional printed resources from the library fund - through electronic ordering

The screenshot displays the KPI Library Catalog+ website. At the top, there is a navigation bar with links for Feedback, 0 items, Your Account, Log Out, and Language. Below this is a search bar with a dropdown menu set to 'All Fields' and a 'Find' button. The search results page shows a breadcrumb trail: Search / Artificial Intelligence / Holdings. The current record is for the book 'Artificial Intelligence With an Introduction to Machine Learning' by Neapolitan, Richard E. and Jiang, Xia. The book details include: Format: Book, Language: English, Published: Boca Ratin-London-New-York : CRC Press 2020, Edition: Second Edition, and Subjects: Штучний інтелект > Навчальні посібники, Емерджентний інтелект > Навчальні посібники. The book is available for borrowing, with a call number of 004.8 N33 and a copy number of w31879. A 'Place a Hold' button is visible. On the right side, there is a 'Similar Items' section listing related books, such as 'Artificial intelligence for autonomous networks' (2020), 'Natural and artificial Intelligence' (2010), and 'Методи та системи штучного інтелекту: теорія та практика: навчальний посібник' (2020).

# Academic library.

# VS

# Other information ecology.

The screenshot shows the Kyiv Polytechnic Digital Library website. At the top left is the logo and name. The top right has language options (EN | UK), 'Share', and 'Login'. A navigation bar includes 'ABOUT LIBRARY', 'COLLECTIONS', 'INDEXES', and 'RECENTLY VIEWED'. A central banner features a grid of historical book covers and technical drawings, with a search bar and the text 'Kyiv Polytechnic Digital Library contains 199 digital objects'. Below the banner are two columns: 'OBJECTS recently added' and 'NEWS'. The 'OBJECTS' column lists items like a photo album and a book of rules. The 'NEWS' column lists articles about the library's collection and the institute's 124th anniversary. At the bottom, there are buttons for 'Planned objects', 'More last added', and 'More news', along with a cookie consent banner.

Kyiv Polytechnic Digital Library

EN | UK Share Login

ABOUT LIBRARY COLLECTIONS INDEXES RECENTLY VIEWED

Kyiv Polytechnic Digital Library contains 199 digital objects

Search library collections... Advanced search Help

**OBJECTS** recently added

- Збірка фотографій з альбому В. Л. Кирпичова**  
фотографії
- Правила о приеме на старшие курсы Киевского Политехнического Института Императора Александра II**  
книга
- Абрагамсон, Артур Адольфович, 1854-1924., Киевский Политехнический Институт Императора Александра II-го : краткий очерк его возникновения : [отдельный оттиск]**  
книга

**NEWS**

- What does the KPI library store...** 02.09.2022  
Historical materials related to the formation and development of the Kyiv Polytechnic Institute
- We are glad to welcome you to the page of the Digital Library of the Kyiv Polytechnic!** 02.09.2022  
Collection of photos from the album presented to V. L. Kyrpychov
- 124 Years of Kiev politechnic insyitute** 31.08.2022  
On August 31, 1898 - 124 years ago - Kyiv Polytechnic Institute was inaugurated.

Planned objects More last added More news

This page uses 'cookies'. More information I understand

Academic library.

VS

Other information ecology.







**National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"**

Catalog Announcements About ▾ 🔍 Search

Home / Catalog

## Catalog

9 Titles

 <p><b>KPI Library: annual report 2021</b> Yuliia Korian April 6, 2022</p>	 <p><b>The hysical and chemical properties of Nigerian oils and prospective technological scheme of their proccessing: Monograph</b> November 24, 2021</p>
 <p><b>MARC 21 формат для бібліографічних даних : методичні рекомендації (скорочений варіант)</b> Оксана Бруй, Олександра Малецька, Тетяна Чорна, Ірина Баньковська June 4, 2021</p>	 <p><b>KPI Library: annual report 2020</b> Yuliia Korian March 1, 2021</p>
 <p><b>KPI Library: annual report 2019</b> Yuliia Korian March 3, 2020</p>	 <p><b>Віктор Львович КИРПИЧОВ: Біобібліографічний показчик</b> Катерина Степанівна Мошинська, Михайло Захарович Згуровський; Михайло Юхимович Ільченко, Оксана Миколаївна Бруй, Наталя Володимирівна Писаревська, Світлана Іванівна Барабаш December 7, 2019</p>

**Language**  
English  
Українська

**Browse**  
New Releases

**Categories**  
Monographs of KPI scientists  
Monographs  
Publication of KPI Library  
Biobibliography of scientists of the Kyiv Polytechnic  
Public report of KPI Library

**Series**  
Public report of KPI Library

**Information**  
For Readers  
For Authors  
For Librarians

# Information Literacy



**1961**

The library started holding a mandatory lecture on information literacy for first-year students of all faculties.



**2017**

The Center for Information Support of Education and Research has been established in the library. Librarians provide academic consultation and educational activities for researchers.



**2018**

Teaching an information literacy course for young researchers.



**2021**

The library is a hub of digital education. In the reading rooms, you can get advice on how to use the "Action. Digital Education" website.

# Academic Integrity



**2019**

Inclusion of a course on academic writing and academic integrity in the educational process.  
Course of open lectures "Academic Integrity: rules of the game or a matter of honor"



**2020**

Information specialists are included in the teaching of the training course for scientific and pedagogical workers "Academic Integrity".



**2021**

Teaching the optional discipline "Fundamentals of Academic Integrity" for students of the 2nd year of study.

# Thank you!

**Evgeniia Kulyk**

Deputy Director for Information Support of  
Education and Research

The Scientific and Technical Library

National Technical University of Ukraine  
«Igor Sikorsky Kyiv Polytechnic Institute»

Prospect Peremogy 37  
Kyiv, Ukraine, 03056  
Tel: +38044 2049672

[e.kulyk@library.kpi.ua](mailto:e.kulyk@library.kpi.ua)



TOPIC 2022. THE ERA OF LIBRARY TRANSFORMATIONS AND THE NEW ECOLOGY OF LIFE  
OCTOBER 7, 2022