

# Открытый доступ к научным публикациям: опыт Бакинской Высшей Школы Нефти

*Татьяна зайцева*

*Директор библиотеки БВШН*

*15.03.2018*

# Мониторинг перехода к Открытому Доступу

- ❑ Сегодня две трети научных журналов по всему миру предлагают возможность опубликовать статью по принципу ОА, причем большинство из них придерживаются гибридной модели.
- ❑ Количество журналов, работающих по модели подписки, уменьшилось в период с 2012 по 2014 годы, как в абсолютных, так и относительных показателях.
- ❑ Наибольшее сокращение было замечено среди тех изданий, где наиболее активно в которых публикуются главным образом авторы Великобритании.
  - ❑ 25% мировых научных статей становятся свободно доступными через 12 месяцев после публикации и 27% через 24 месяца.
- ❑ Нелегальные публикации (например, публикация на открытых порталах в обход требований журнала), то доля свободного контента, доступного через 24 месяца после публикации, еще выше, и составляет 34% публикаций в мире и 43% в Великобритании.

# Тенденции развития ОД



- ❑ По плану Европейской комиссии, уже к 2016 году 60% всех публикаций европейских учёных, проводящих свои исследования за государственный счёт, будут размещаться в журналах ОА
- ❑ Правительства Великобритании, Франции, Швеции и Дании нацелены на 100% научных статей в ОА к 2022 году
- ❑ Многие библиотекари и руководители научно-исследовательских проектов будут осуществлять мониторинг уровней публикационной активности в открытом доступе и развивать возможности более эффективной передачи этой информации во внутренние системы вузов
- ❑ Само определение открытого доступа постепенно расширится, включив в себя не только саму статью, но и научные данные, а издательства станут предъявлять более жесткие требования к авторам, чтобы те публиковали или размещали данные в свободном доступе
- ❑ Публикационный процесс расширится вплоть до информационных систем управления данными о научных исследованиях, проводимых в институте, тем самым подключив к рабочему процессу автора и библиотекаря

## Рекомендации:

- ❑ **Ученым необходимо овладевать новыми способами архивирования и управления данными**
- ❑ **Библиотекарям следует поддерживать пользователей в новых коммуникациях и помогать им в управлении новыми технологиями и инструментами**

**Источник:** Роб Джонсон (Rob Johnson) «Open Access: 10 тенденций в 2016 году»





# Поддержка ОД EIFL

- ❑ Политика ОД получила развитие в 47 странах с развивающейся и переходной экономикой
- ❑ В странах-членах EIFL насчитываются более 750 репозиториев и издаются более 4000 журналов открытого доступа
- ❑ Программой EIFL- было организовано более 110 семинаров, тренингов, круглых столов в 16 странах в 2014 году
- ❑ FOSTER (Facilitate Open Science Training for European Research) портал обеспечивает доступ к многочисленным бесплатным тренинговым материалам







# Реализация ОД

- ❑ **Репозиторий** - хранилище данных, организованных в файлы, доступные для дальнейшего распространения по сети.
- ❑ **Институциональные репозитории открытого доступа** – публично доступные архивы научных, исследовательских и образовательных организаций, в которых члены сообщества размещают свои опубликованные и подготовленные к печати статьи и другие материалы научно-исследовательской и научно-организационной деятельности.





# Крупнейшие репозитории мира

- ❑ Публичная научная библиотека PLOS (Public Library of Science). Один из пионеров в мире открытых научных публикаций
- ❑ Открытый доступ к работам европейских учёных предоставляет проект OpenAIRE
- ❑ Open Knowledge Repository World Bank - 20,729 научных публикаций
- ❑ Global Open Access Portal UNESCO
- ❑ Digital Commons Network
- ❑ Библиотека «КиберЛенинка» русскоязычный ресурс, предоставляющий научные статьи в открытом доступе





# Реестр репозиториев открытого доступа DOAR по странам (Directory of Open Access Repositories by Countries )

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# Открытый Доступ в Азербайджане

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## Репозитории открытого доступа

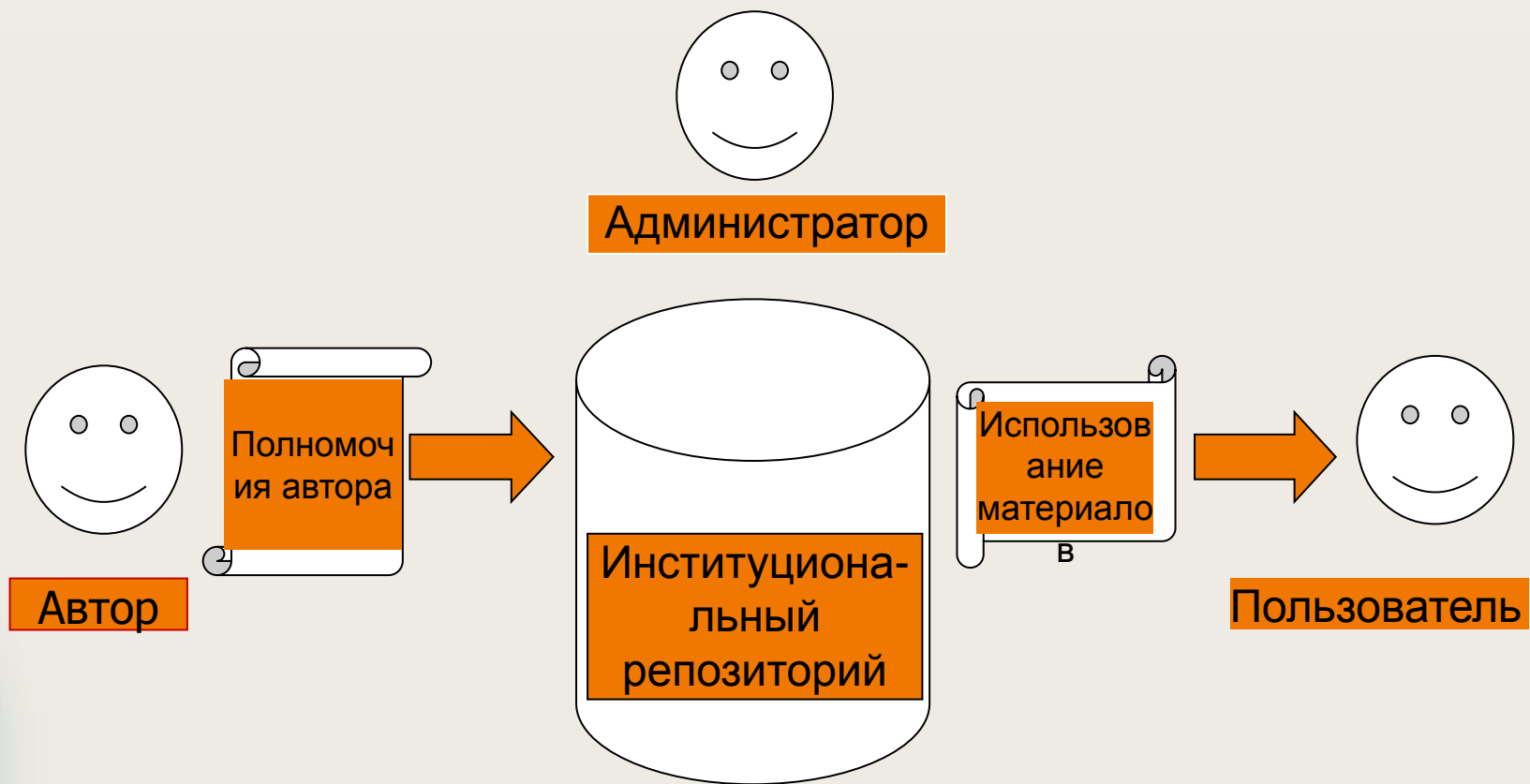
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- Бакинская высшая школа нефти

## Журналы открытого доступа

- Journal of Humanities and Social Sciences
- Journal of Archaeology
- Azerbaijan Journal of Mathematics
- Journal of Qafqaz University



# Институциональный Репозиторий (ИР)





# Принципы деятельности архивов Открытого Доступа



- ❑ Бесплатная регистрация авторов для размещения своих работ
- ❑ Самоархивирование или услуги посредников
- ❑ В архиве размещаются работы, имеющие научный, образовательный или исследовательский характер
- ❑ Любой может свободно пользоваться полными текстами или другими цифровыми данными, а также метаданными архивов
- ❑ Копии размещенных материалов могут быть воспроизведены, представлены или переданы третьей стороне и сохранены в базах данных в любом формате и на любом носителе
- ❑ При копировании материалов из архивов обязательно указание автора/авторов, названия документа и все другие элементы библиографического описания, гиперссылки





# DSpace В БВШН

- ❑ Начало проекта - Октябрь 2013
- ❑ Проект был инициирован библиотекой и получил развитие без какой-либо финансовой поддержки
- ❑ Программная платформа – Dspace
- ❑ Сотрудники БВШН могут разместить электронные копии своих материалов (статьи, книги и т.д.) в Репозитории БВШН связавшись с библиотекой
- ❑ Интеграция электронного архива с EBSCO Discovery -2016





# Основное назначение ИР БВШН

- ❑ **Накопление, систематизация и хранение** в электронном виде интеллектуальных продуктов университетского сообщества
- ❑ **Предоставление открытого доступа** к ним средствами Интернет-технологий
- ❑ **Распространение** этих материалов в среде мирового научно-образовательного сообщества





# Цели и задачи ИР БВШН

- ❑ Обеспечить место и способ для централизованного и длительного хранения в электронном виде полных текстов публикаций ученых БВШН
- ❑ Способствовать росту известности университета путем представления его научного потенциала в глобальной сети
- ❑ Увеличить цитируемость научных публикаций ученых БВШН путем обеспечения свободного доступа к ним через Интернет
- ❑ Создать надежную и доступную систему учета публикаций научных работ факультетов, структурных подразделений и отдельных ученых БВШН



# Веб адреса доступа к DSpace

[http://en.wikipedia.org/wiki/Baku\\_Higher\\_Oil\\_School](http://en.wikipedia.org/wiki/Baku_Higher_Oil_School)

<http://www.bhos.edu.az/az/page/26-central-library>



| Faculties                        | Academic Departments  | Degree Programmes              | Library           |
|----------------------------------|---|--------------------------------|-------------------|
| + Chemical Engineering           | + Introduction to IT for Foundations Students               | + Undergraduate                | + BHOS Library    |
| + Petroleum Engineering          | + English Language and HD Centre                            | + Lifelong learning department | + BHOS Repository |
| + Process Automation Engineering | + Training and research center for renewable energy engines |                                |                   |

**Baku Higher Oil School**

From Wikipedia, the free encyclopedia

This article includes a list of references, but its sources remain unclear because it has insufficient inline citations. Please help to improve this article by introducing more precise citations. (December 2013)

**Baku Higher Oil School** (Azerbaijani: *Bakı Ali Neft Məktəbi*) is an institution of higher education in Baku, Azerbaijan.

| Contents (hide) |   |
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| 1               | History                                 |
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| 5.1             | Student services                        |
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**Baku Higher Oil School**  
Bakı Ali Neft Məktəbi

Established: 2011  
Type: Public  
Sector: Higher Education  
Location: Baku, Azerbaijan  
Affiliations: SOCAR  
Website: www.bhos.edu.az

## Student services [edit]

The Academic Registry at Heriot-Watt University assists students with all aspects of student services including enrolment, transfers, the European Diploma supplement, and disciplinary and complaints issues.

## Student Senate [edit]

To ensure that all students are represented, the BHOS has developed a forum for discussing student issues and ideas. Students who participate in extra-curricular activities in the areas of Student Representation and School sports and social clubs/societies may be elected to the Student Senate.

## Student Research Union [edit]

The Student Research Union offers research opportunities outside the academic program and peer assistance.

## Sport and social clubs [edit]

Students have access to a wide range of sports and social clubs.

## Facilities [edit]

## Information Technology [edit]

New students are registered for IT facilities and receive a log-in for accessing Heriot Watt e-mail and the Virtual Learning Environment (VLE) system, which is known as VISION (Virtual Student Information Organisation Network). Students also receive information on accessing the university's WiFi network.

## Library [edit]



The Higher School Library offers access to a range of study materials and computer facilities, as well as experienced professionals who can guide students to the right sources of information.

In addition to print books and journals, students are able to access and download a range of electronic journals and to search databases for articles, conference papers, and other materials from the Heriot-Watt University Library website. The library works closely with the Computer and ICT department. BHOS library offers free photocopy/printing/scanning facilities and services on campus.

Baku Higher Oil School Repository [edit] aims to collect, preserve and distribute the digital assets, intellectual output while expanding open access



Student Research Union Meeting





# Веб сайт DSpace



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## Welcome to Baku Higher Oil School (BHOS) Repository!

Baku Higher Oil School Repository (BHOS) aims to collect, preserve and distribute the digital assets, intellectual output while expanding open access to digital materials. BHOS Library is taking leadership roles in planning and building this repository, fulfilling its role as expert in providing stewardship for documents and digital information.

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Prof. Dr. Ramiz Humbatov

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Capacity Building in the Deployment of Renewable Energy Sources in Azerbaijan  
Azakov, Siyavush (2015-09-18)

Witten-Yenikhanov Relation for the Schwinger Model  
Azakov, S.; Iosif, H.; Nijp, A. (2014-03-19)

The Schwinger Model on a Circle: Relation between Path Integral and Hamiltonian approaches  
Azakov, S. (2011-07-30)

On the normal solvability of the boundary-value problem for one class operator-differential equations of the second order

Jafarova, Kh.V. (Journal of Contemporary Applied Mathematics, 2011-09)

On the completeness of one derivative chain of the root vectors of the second order operator bunched

Milozhevi, S.S.; Yagubova-Jafarova, Kh.V. (Azerbaijan Elmiler Akademiyasının Xəbərləri, 2002)

О разрешимости краевых задач с операторами в краевых условиях для одного класса операторно-дифференциальных уравнений второго порядка  
Мирзоев, С.С.; Ягубова-Джафарова, Х.В. (Azerbaijan Elmiler Akademiyasının Xəbərləri, 2001)



# Просмотр коллекции автора



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## Associate Prof. Manafaddin Namazov

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Namazov, Manafaddin; Tekgun, B.; Celikkale, I.E. (*Innovations in Intelligent Systems and Applications*, 2012-07-02)

[An approach to the synthesis of fuzzy stabilization systems with a priori unknown model of an object](#)

Rustamov, Gazanfar A.; Namazov, M.B. (*Automatic Control and Computer Sciences*, 2007-10)

[Fuzzy Control and Sliding Mode Fuzzy Control of DC Motor](#)

Yaraş, Basri; Hüseyinov, Rafael; Namazov, Manafaddin; Çelikkale, İbrahim Emre; Şeker, Mustafa (*Journal of Engineering and Natural Sciences*, 2013-12-24)

[DC motor position control using fuzzy proportional-derivative controllers with different defuzzification methods](#)

Namazov, Manafaddin; Basturk, Onur (*Turkish Journal of Fuzzy Systems*, 2010)

[Modeling and Simulation of the Fuzzy Relay Type Controller for Solving the Double Integrator Control Problems](#)

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# Ресурс из коллекции автора



Innovations in Intelligent Systems and Applications (INISTA), 2012 International Symposium (2-4 July 2012) ISBN: 978-1-4673-1446-6

## Design of a stable Takagi-Sugeno Fuzzy Control system via LMIs with disturbance rejection

Namazov, M. ; Dept. of Electr. & Electron. Eng., Cumhuriyet Univ., Sivas, Turkey ;

Tekgun, B. ; Celikkale, I.E.

### Abstract

In this paper, we have presented the control of an inverted pendulum system controlled by a dc motor via a gear train using the T-S fuzzy approach. Stability conditions of this system with disturbance rejection can be formulized in terms of linear matrix inequalities (LMIs), which can be solved using the LMI Toolbox in MATLAB. To simplify the procedure of T-S fuzzy modeling and control, a software tool designed by the authors was proposed which is called the "Modeling Takagi-Sugeno Fuzzy Control Toolbox". This toolbox works in Matlab/Simulink environment.

**Keywords:** DC motor, Control system synthesis, Fuzzy control, Fuzzy system, T-S fuzzy model, LMIs,



# Ресурс из коллекции автора



## An Approach to the Synthesis of Fuzzy Stabilization Systems with a priori Unknown Model of an Object

G. A. Rustamov and M. B. Namazov

*Azerbaijan Technical University, pr. G. Dzhevaida 25, Az-1073 Baku (Azerbaijan)  
e-mail: flpnigar@yahoo.com*

Received February 20, 2007

**Abstract**—A method of synthesis of fuzzy stabilization systems for a broad class of dynamic objects under the assumption that the mathematical model of the object is not known a priori is proposed. The control is formulated in the form of a proportional law of adjustment as a function of a macro-variable; the square of the Euclidean norm of the phase variables is adopted as the macro-variable. An analogous variable characterizes the distance of the object from the equilibrium position. Despite the simplicity of the control law, its sign remains constant due to the fact that the macro-variable is positive-definite over the entire phase space. The switching times of the signals are determined by fuzzy identification of the system's dynamic modes on the basis of measurement of the derivatives of the macro-variable.

**DOI:** 10.3103/S0146411607050045

**Key words:** macro-variable, fuzzy regulator, velocity, acceleration, departure, approach, dynamic modes, linguistic terms, membership, reversal, double integrator

### 1. INTRODUCTION

The control error and its derivatives along with integrals to eliminate the static error are often used as the input variables in the synthesis of fuzzy controlling systems for the purpose of creating knowledge bases. Derivatives of higher orders must be resorted to in order to achieve qualitative control of a complex object. For an undefined object, however, even with derivatives of order greater than two, it becomes difficult to obtain understandable reliable expert estimators.

If a fuzzy control is constructed not by means of expert estimators, but instead on the basis of a desired deterministic control law containing arbitrary errors of higher orders, no particular difficulty arises when attempting to take these derivatives into account. The transition to a fuzzy analog is realized by means of approximation of a deterministic law through a partitioning of the domain of the measurable input variables and the control into term sets and the formation of a teaching sample [1, 2]. Such a transition is often undertaken because of an increase in the robustness of the system relative to variations in the parameters of the object and a reduction in interference and harmful nonlinear effects. However, "blurring" of a crisp control obtained on the basis of an adequate mathematical model of the process may lead to a substantial decrease in precision.

In any case the use of a large number of input variables makes it difficult to construct linguistic rules, and the laws that are thus obtained become unintelligible to the human operator. The use of several inputs

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Татьяна Зайцева  
[tatyana.zayseva@socar.az](mailto:tatyana.zayseva@socar.az)  
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