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СЕРТИФИКАТ

CERTIFICATE OF PARTICIPATION

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Tomislav Pavlic

«An Integrated Approach
to Connecting University Research and Manufacturing Companies
in the Field of Cognitive Robotics and English for Specific Purposes»

Rector Tatyana Startseva

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science city Korolev

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AN INTEGRATED APPROACH TO CONNECTING UNIVERSITY RESEARCH AND MANUFACTURING COMPANIES IN THE FIELD OF COGNITIVE ROBOTICS AND ENGLISH FOR SPECIFIC PURPOSES

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Keywords: robot, post-processor, Toshiba, DXF, CAD, simulation, trajectory, RoboDK, off-line programming, terminology, English for Specific Purposes

Abstract

Due to the increased use of new technologies in the industry (the concept of "Industry 4.0"), there is a need for a joint collaboration of experts in the fields of mechatronics, computing and manufacturing staff. The fact is that there is a large share of older machines (robots) in the Bjelovar area, but also throughout Croatia, which are very precise, but have very low productivity (a bad control unit that is not adapted to the fast changing tasks that machines need to do). The example of co-operation [1] between companies (DATA LINK doo Bjelovar), higher education institutions (Bjelovar University of Applied Sciences), and manufacturing companies in Bjelovar and surrounding areas shows that by timely inclusion of students in the whole process [2], it is considered possible to make a significant step forward with regard to that segment of the economy of the Republic of Croatia. With new technologies, a large number of new words have appeared, mainly from the English-speaking area, so it is necessary for linguists to be engaged in the process of terminology systematization. The first steps may already be taken in English courses taught at the university by involving project work in cooperation with teachers who teach professional courses.

I. Introduction

The main objective was to offer a software solution to generate a robust code controller based on a DXF file and then implement it. The company was offered a solution based on a combination of RoboDK simulation environment and post-processor developed by the author. By enduring work, the system became functional and was successfully tested. The time needed to build a robotic code controller significantly decreased what was the main goal. The topic approaches the reader with the problem of managing 6-core robots with classical programming and demonstrates the advantages of off-line programming methods based on a predefined path in CAD tools. The Toshiba TV-1000 6-core robot mode is described, the robotic control code and the post processor used to translate the DXF file into the robot control code are analyzed. The process of designing and testing is described in detail in the hope that this knowledge will be of use to readers in the realization of similar ideas. The company DATA LINK d.o.o. allowed the Bjelovar University of Applied Sciences to use the Toshiba SCARA robot. The collaboration with DATA LINK d.o.o. and its director has lasted since the establishment of the Bjelovar University of Applied Sciences, and the company employs several Mechatronics graduates. It is always open for study visits of our students and teachers and for the professional practice of students of Mechatronics. There are three professional studies at the Bjelovar University of Applied Sciences - Mechatronics, Nursing and Computer Science.

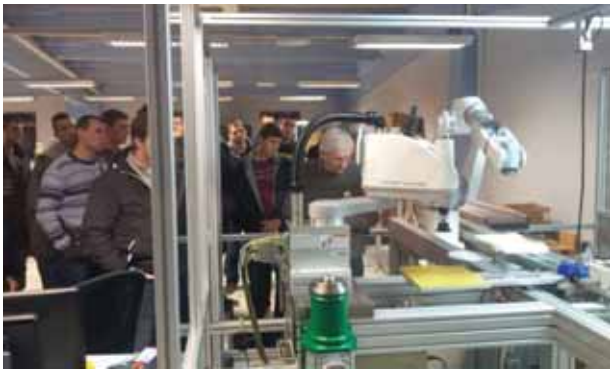

Figure 1. Robot Toshiba TV-1000 at the company DATA LINK [1]

The need of the industry to achieve faster and easier robot adaptation to different tasks is increasing, especially in companies that are primarily concerned with development. Such companies have the need to constantly modify robotic control codes depending on the tasks that are constantly imposed on product development. Sometimes companies have many different robots of different manufacturers and models, which further complicates the task of programming. Software solutions are required that can enable fast programming of different robots based on the desired path without losing time to create complex control codes. Such program simulation tools generate the robotic control code based on the preferred robot path that was previously drawn in CAD tools and stored in DXF format. Using this procedure significantly reduces robot programming time, and it is possible to have a very fast code correction or complete change of the code control code if needed.

II. Description of problems and solutions for controlling robots with a dxf file

Creating a control code for industrial robots with classic online programming methods is a long and complicated process. The programmer must be familiar with the programming languages of different robots and the technical characteristics of each robot. It is very difficult to determine the position and orientation of a point in the robot's work space, particularly complex interpolations such as the circular one. The robot's path for some tasks can be very complex. Programming with classical methods increases the likelihood of errors in the control code, and thus increases the time spent on the analysis and searching for code errors if it occurs.

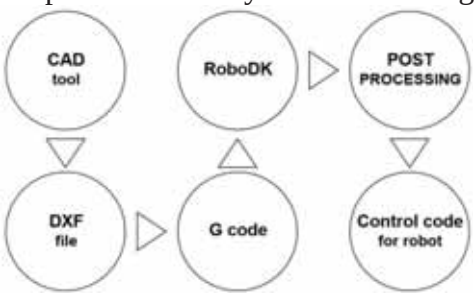

Figure 2. Steps of transferring a .DXF file into a control code for an industrial robot

The problem arises when the need for frequent modification of the code control code appears. Creating a new control code for a new job may take days and the entire drive must stop at that time. In case of large robotic plants this causes enormous costs for the company. Because of the time consumption and the need for frequent code change, a different approach to programming industrial robots is needed.

III. Used equipment and software tools

Robot Toshiba TV-1000 is a 6-inch Japanese Toshiba robot designed for use in industrial robots. Its very robust and lightweight construction allows it to move at high speeds, so it is suitable for manipulating lightweight cases when assembled. It belongs to the category of robots with rotating joints of the so called the revolving structure and has the ability to be upgraded with additional two degrees of freedom of movement.

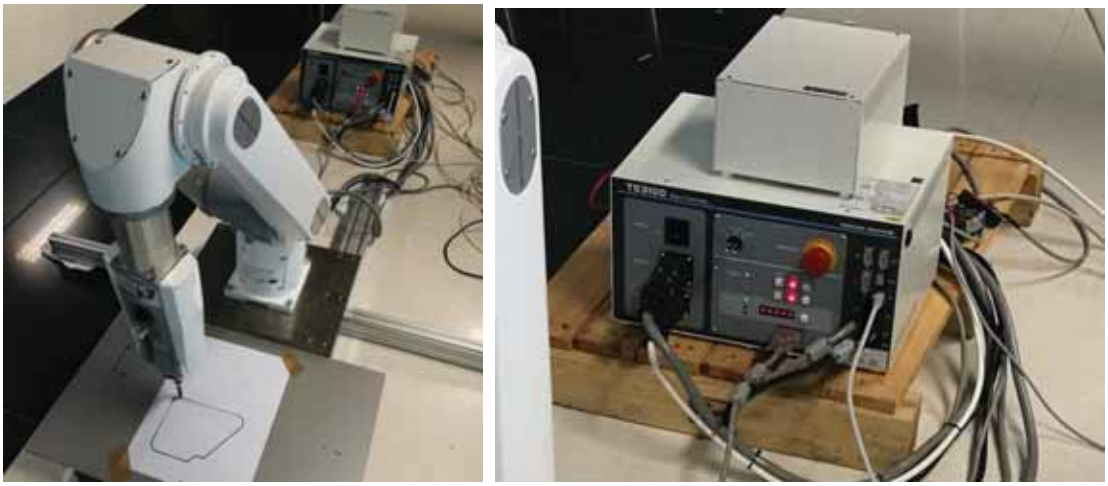
Figure 3. Robot Toshiba TV-1000 [3] and robot controller TS-3100 [4]

The TS-3100 controller is used to control SCARA robots and other Toshiba robots with rotating joints. It supports up to eight individual rotation axes. It contains many different functions, some of which are self-diagnosis, arithmetic operations, torque limiting, communication during robot control, and many others listed in the controller's technical characteristics.

The CNC spindle is used to drill holes. It is very small and ideal for use on the Toshiba TV-1000. With its small mass and a powerful engine, it provides a great output power. In addition to the spindle, the control electronics is used to control the spindle speed.


Figure 4. EWL-4026 CNC spindle [5]

TSPC is a software tool used to program Toshiba robots. Some versions have the ability of simulation. It is very easy to use even for engineers who have their first encounter with programming industrial robots. A TSPC interface consists of multiple individual windows used to configure communication with the computer, monitor input / output data, write and edit the code.


Figure 5. Interface of the TPSC software tool

RoboDK is a software solution for simulating the working environment of any industrial robot. It is very easy to use, possesses a base of different robots and provides the ability to create your own robot if it does not exist in the database. In addition to the robot, there are a number of other accessories in the database to make the simulation as complete as possible. It provides the ability to embed one’s own 3D models for a complete simulation of the robot working environment. RoboDK enables 5-core milling, 3D printing, NC program conversion

(G-code or APT-CLS file) in robots, off-line programming, robot calibration, and more. Some of the extra off-line programming functions are collision detection, auto-optimization of the path, limitation of movement of each axle limit. RoboDK has the option of creating one's own robot in a simulation environment by inserting a 3D robot model, defining robot dimensions, and other robotic parameters. In addition to creating one's own robot, it allows one to create own post processors that generate robot code control.

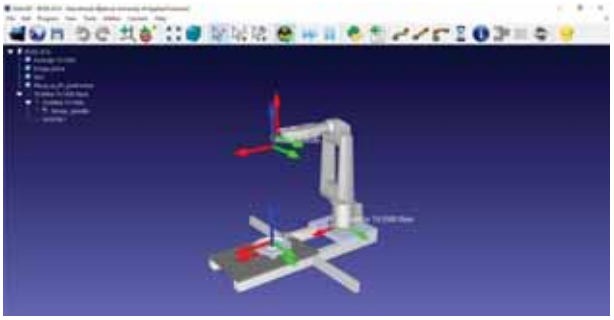

Figure 6. Robot Toshiba Tv-1000 in the simulation environment RoboDK

IV. Creating a simulation environment and robot mechanism in the program RoboDK

For the control code as related to the Toshiba TV-1000 robot control it is typical to be compiled in the SCOL programming language. The SCOL programming language is very simple, the program starts with the PROGRAM command and ends with the END command. The content of the program is contained in-between. There is also a visible code line BASE and TOOL that defines the reference coordinate system and robot tools. When defining the database and tools, the TRANS command and then the position of the coordinate system of tools are used. A simulation environment that has the option of off-line programming is used to accomplish the task. RoboDK is a program simulation environment that offers this option and is universal for all robots. In the simulation environment, the robot is first created, its working environment and the tool to be used. RoboDK has a robot base, but not all robots in the database and need to insert a 3D robot model and define a new mechanism. The 3D model can be in any 3D format such as IGES, STL, STP, OBJ or others. Creating a robotic mechanism moves from inserting a 3D model that can be in a single file in parts or in multiple files in parts. It is essential that the 3D model consists of component parts of the robot and that each component has its own reference coordinate system. In the toolbar, select a part called File → Open and insert a 3D model. The image above shows the inbuilt 3D model of Toshiba TV-1000 robots in STP format. The robot creation dialog box consists of:

1. Menu for choosing the type of robot
2. The field for entering the robot's name
3. Fields for defining the coordinate system of the base and the flange
4. Robot dimension field
5. Fields for entering the initial angle of each robot axis
6. Fields for defining the physical 3D model of the robot's joints
7. Field for defining the scope of movement of each joint

Figure 7. Dialogue frame for creating the robot mechanism

All data needs to be matched with those on the actual robot model to make the simulation complete. It is very important to emphasize the correct orientation of the coordinate system of the robot base and robot flanges.

V. Development of the post processor for transferring a dxf file into the robot code

The post processor is a script that serves to translate DXF files or other CAD models in a CNC machine or robotic mechanism. It is always used together with the off-line programming software or as a CAM tool because the G code or the robot can be different from the machine to the machine. Sometimes it is necessary to define specific tools and operating modes of the machine, so that performing such translation at the machine without any additional simulation tool would be impossible to perform. RoboDK is a simulation tool that involves a post processor for translating simulations in any industrial robot.

Figure 8. Part of the post-processor script that translates robotic code interpolation

Each robot has its own post processor. If it does not exist in the database, it is necessary to customize the post processor to the desired robot model based on the template. The programming language in which all post processors are written in RoboDK is Python. RoboDK allows you to edit all existing post processors or create new ones. Post processor is a translator that understands the language of all robots and can translate a universal language into the language of any robot. RoboDK based on DXF file creates a simulation and, as a result of the simulation, a special string of commands inside RoboDK is then translated into the robotic control code as shown in the figure below. For the Toshiba TV-1000 robot, it has been developed by the author.

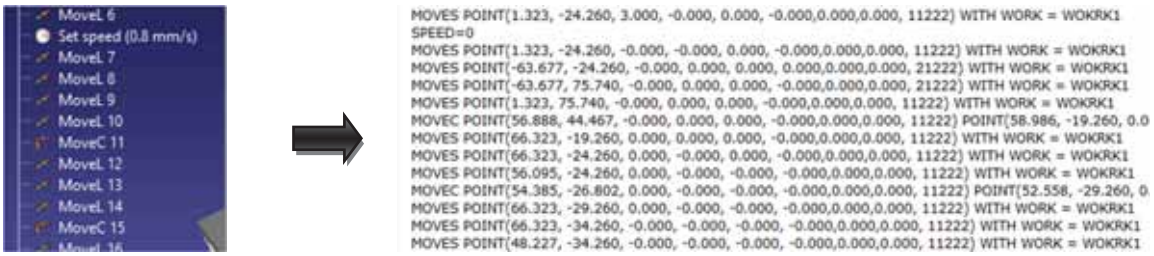

Figure 9. Translated string of commands from RoboDK into the robotic control code

VI. Testing the robot workflow controlled by a trajectory from a dxf file

The goal of the project was to devise a system that will generate a robotic trajectory control based on the path from the CAD tools stored in the DXF format. In this chapter, there are two examples of running a robot along the path from the DXF file.

Making sealants by dispensing a blend using a robot is a method applied to the automotive industry. For the needs of Data Link d.o.o, a Toshiba TV-1000 robotic control code system was created based on any CAD two-dimensional drawing of the path. For the purpose of testing the system, it has been designed arbitrary paths in CAD tools and is stored in DXF format. The image below shows the contour path in the CAD tool that is then saved in the DXF file format and as such will be used to generate the path.

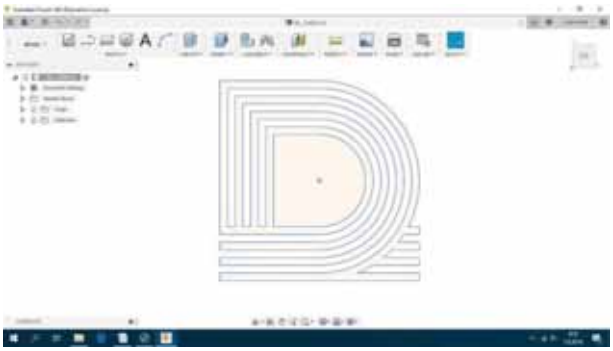

Figure 10. Arbitrary trajectory in the CAD tool

Such a system is very flexible, and it is possible to create complex control codes for the seal of any shape very quickly. For the purpose of testing the trajectory system, it is drawn on paper using a pencil. Once the path is drawn, it is saved in DXF format. The next step is to add tools that will be used for testing. For the purpose of the test, a felt-tip pen was attached to the carrier made on the 3D printer. The next step is to customize the tools in the RoboDK simulation environment. It is necessary to set up a coordinate system of tools at the very top of the felt-tip pen, which will then be used to draw the visual representation of the path from the CAD tool. The floating scale measurement determines the real distance of the tool top from the robot flange. In the simulation environment of RoboDK, a coordinate system of tools has to be moved for exactly those values of measured values on the right robot. The picture below shows the tool in the simulation environment and the position of its coordinate system relative to the coordinate flange system (left) as well as the simulation path (right).

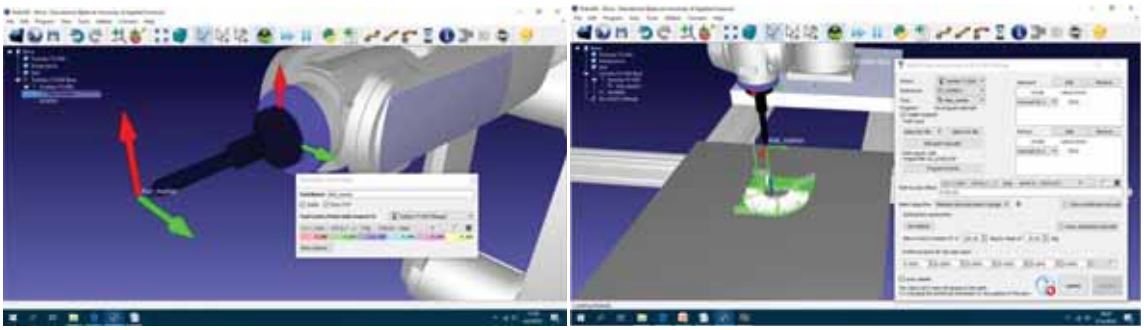

Figure 11. Coordinate system of the tool, flange and the trajectory in the robot simulation

When the robot tool is set up and the WORK coordinate system is positioned, the simulation can be started. A DXF file is inserted with the contour of the desired seal. Based on simulation, RoboDK starts translating the simulation into the robotic control code. After the simulation is completed, the control code is transferred to the robot using the TSPC program tool. The image below shows the DXF path for the arbitrary path that was drawn for testing purposes.

Figure 12. The part of the robot control code generated from the DXF file

When the control code is generated, it checks the errors in the TSPC software again and is transferred to the robot controller. The image below is the result of the test of generating the path from the DXF file.

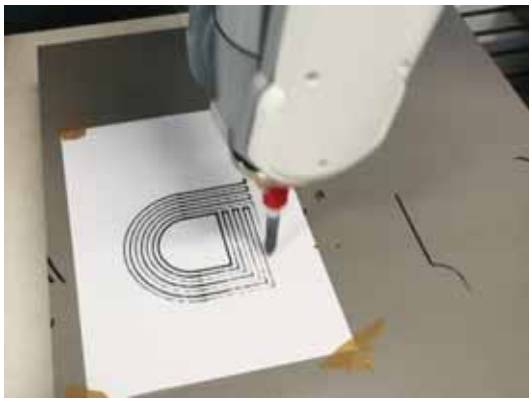

Figure 13. Test results of transferring the DXF file into the robot code

Borehole utilization using industrial robots is a highly represented method in the industry. Robot as a drill provides a range of options, especially 6-axis robots that can access a point in 6 different ways unlike the Cartesian drill. The drilling process is tested on a developed post processor and the insertion of the DXF path is exactly the same as inserting the path for the previously illustrated seal design example. The picture below shows the drilling trajectory for holes on the LED reflector shades.

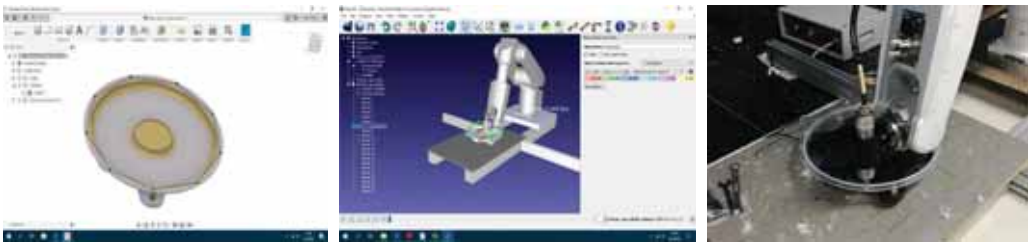

Figure 14. Bore drilling paths on LED spotlights (left), bore drilling simulation (middle) and bore drilling on the real system (right)

After the drilling tool is installed, the trajectory is inserted and a drilling simulation is carried out. The LED reflector cover is also shown in the drilling process. By testing the post-processor, it was noticed that it correctly generated the control code of the robot and can translate any path from the CAD tool into the robotic control code, as shown in the figures above. The system test result is positive and the post processor can be used to translate any DXF file into the Toshiba TV-1000 robot control code, and thus the main purpose of the project has been fulfilled.

VII. Terminology and English for Specific Purposes

The rapid development of new technologies results in many new terms. The areas of computer science, robotics and additive technologies are examples of scientific fields that are abundant in new developments and, consequently, new terms and expressions that must find their place in the existing terminology system and adapt to the morphosyntactic system of the standard language. English for Specific Purposes (ESP) involves learning technical words relevant for the field of study. This project represents the first step to establishing the integrative approach to teaching ESP in collaboration with teachers who teach professional courses. The research of the literature and the work on the terminology issues was accomplished in close cooperation between the student, his mentor who teaches professional courses in the field of robotics, his mentors at the company who are experts in the field of mechanical and electrical engineering and linguists. The student noticed a significant improvement of his communication skills in English as well as his understanding of the professional terminology, which leads to the conclusion that such approach could be

introduced to the ESP classrooms with a larger number of students. The method is to be introduced, analyzed and presented in the scope of prospective research papers.

VIII. Conclusion

The topic of this paper is the control of the Toshiba TV-1000 industrial robot by defining the path from the DXF file. The problem was to be solved in a cognitive way, which means that the robot will act in the way people see it. On the market there are solutions but they can never fully cover the needs of an ever-growing industry. With the desire to realize the project, ideas have also begun to develop. In the first phases of the project, there was research and learning about the problem of robot control itself based on some imaginative trajectory. The biggest challenge was to get acquainted with the basics of controlling 6-axes robots. For the realization of the project, a RoboDK program tool was found that could perform the DXF file translation function in the robot control code but did not contain the required robotic model and a suitable post processor in its database. By learning and researching the problem itself, the solution was found and the robot was plugged into RoboDK and a post-processor for translating the file into the Toshiba TV-1000 robot was developed. By testing the post-processor on the robot it was completely perfected and thus fulfilled the main goal of the project that was set at the very beginning. Testing has shown that it is possible to create complex control codes for complex robot paths in just a few minutes. No industrial robotics area is an exception to this, and this kind of system can be found everywhere in the industry. By completely eliminating the need to know the code of the robot, it is possible to control any robot, even the ones used for educational purposes. The use of this programming method is unquestionable, but the system can always be perfected. It is possible to link the simulation environment with the robot controller and use only one simulation environment as a unique programming tool for all robot models. In the authors' opinion, the system can be improved by post-processor upgrading to be capable of generating camera vision system control codes. RoboDK does not provide the possibility to enter parameters for drilling operations, so upgrading is also possible in this area. The project was completely created for Data Link d.o.o. and the topic was selected for the final thesis in the course Fundamentals of Robotics. Students regularly participate in training at manufacturing companies to interact with real problems. It was necessary to find a solution that would generate the executable code of the robot based on the DXF path. Such a system would considerably facilitate and accelerate the robot programming process. The project started with exploring available software solutions. As part of the professional practice at the company mentioned, the problem was detected, and the project assignment was defined. The operative work on the project required a substantial use of manuals and other literature sources that are primarily available in English. For this purpose, the terminology issues were discussed and dealt with in close collaboration with linguists, which leads to the conclusion that integrative approach to teaching English for Specific Purposes in cooperation with teachers who teach professional courses may be the optimal method of acquiring new terminology and dealing with terminology issues that arise as new terms appear. In the scope of the final thesis project, the problem was realized and it provides an excellent platform for further projects of a similar type.

IX. References

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[2] https://vub.hr/strucni-studij-mehatronika/obavijesti-mehatronika/studij/tvrtka-data-link-d.o.o.-ustupila-je-visokoj-tehnickoj-skoli-na-koristenje-s

[3] https://www.toshiba-machine.co.jp/en/product/robot/lineup/tv/tv1000.html

[4] https://www.toshiba-machine.co.jp/en/product/robot/lineup/tv/ts3100.html

[5] http://www.nielsmachines.com/de/kavo-sycotec-4026-sf-motorspindel-und-kav-78993665.html

VII Ежегодная международная научно-практическая конференция

Перспективы, организационные формы и эффективность развития сотрудничества российских и зарубежных ВУЗов

10-11 Апреля 2019

ПРОГРАММА КОНФЕРЕНЦИИ

VII International scientific conference

Future trends, organizational forms and effectiveness of cooperation development between Russian and foreign universities

10-11 April 2019

Наукоград Королев
Московской области

Регламент Конференции

10 апреля

09.45 - 10.30 **Регистрация участников конференции**

10.30– 13.00 **Пленарное заседание** (ауд. 406)
Модераторы:
Бабина Наталья Владимировна
Проректор по учебно-методической работе,
кандидат экономических наук, доцент
Новичков Андрей Вячеславович
Заместитель директора Института техники
и цифровых технологий,
кандидат исторических наук, доцент

14.00 – 16.00 Студенческая секция **«Аспекты образовательной интеграции молодежи в современных условиях»**
(ауд. 208)
Модераторы:
Аренд Оксана Юрьевна
Директор Института международного образования
Сергеев Евгений Павлович
Начальник Управления по международному сотрудничеству и интеграции в образовательное сообщество

11 апреля

10.40 - 13.00 Работа секций

10.40 – 13.00 Секция «**Интеграционные процессы в современной экономике и управлении**» (ауд. 208)
Модератор:
Алексахина Вера Григорьевна
Директор Института проектного менеджмента и инженерного бизнеса,
кандидат экономических наук, доцент
Баширова Светлана Викторовна
Заместитель директора Института проектного менеджмента и инженерного бизнеса,
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10.40 – 13.00 Секция **«Интернационализация вуза как фактор повышения качества образования. Повышение роли вузовской науки в условиях глобализации»** (ауд. 409)
Модератор:
Привалов Виктор Иванович
Директор Института техники и цифровых технологий,
кандидат технических наук, доцент
Капралов Алексей Олегович
Заместитель директора Колледжа космического машиностроения и технологий по научно-методической работе

Conference schedule

10th of April

09.45 - 10.30 **Registration of the participants**

10.30 – 13.00 **Plenary session (aud. 406)**
Moderators:
Natalia Babina
Vice-Rector for Academic Affairs,
PhD in Economics, associate professor
Andrey Novichkov
Deputy Head of Engineering and Digital Technology Institute,
PhD in History, associate professor

14.00 – 16.00 Student workshop **«Aspects of youth educational integration in modern environment»**(aud.208)
Moderators:
Oksana Arend
Head of International Education Institute
Evgenii Sergeev
Head of Supplementary Education Institute

11th of April

10.40 - 13.00 Workshops

10.40 – 13.00 Workshop «**Integration processes in modern economy and management**» (aud. 208)
Moderators:
Vera Aleksakhina
Head of Project Management and
Business Engineering Institute,
PhD in Economics, associate professor
Svetlana Bashirova
Deputy Head of Project Management and
Business Engineering Institute,
PhD in Pedagogics, associate professor

10.40-13.00 Workshop **«University internationalization as a quality increasing factor for the education.**
Enhancing the role of university research in the context of globalization»(aud. 409)
Moderators:
Victor Privalov
Head of Engineering and Digital Technology Institute,
PhD in Engineering, associate professor
Aleksey Kapralov
Deputy Head of Space Engineering and Technology College for scientific and methodological activities

VII Международная научно-практическая конференция «Перспективы, организационные формы и эффективность развития сотрудничества российских и зарубежных ВУЗов»

10 апреля 2019 года

Пленарное заседание

Модераторы

Бабина Наталья Владимировна
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кандидат экономических наук, доцент

Новичков Андрей Вячеславович
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кандидат исторических наук, доцент

ПРИВЕТСТВЕННОЕ СЛОВО УЧАСТНИКАМ:

10.30 Технологический университет (г. Королев, Россия)
КОВАЛЬСКАЯ ОЛЬГА ВЯЧЕСЛАВОВНА
Первый проректор,
кандидат педагогических наук

10.40 Политехнический университет Меджимурья в Чаковце (г. Чаковец, Хорватия)
НЕВЕНКА БРЕСЛАУЭР (NEVENKA BRESLAUER)
Ректор,
кандидат философских наук

10.50 Финансовая академия (г. Нур-Султан, Казахстан)
ШАЙЖАНОВ МУХАНБЕТАЛЫ КАЛИЕВИЧ
Исполнитель обязанностей ректора,
кандидат экономических наук, доцент, профессор

11.00 Национальный офис Erasmus+ в России (г. Москва, Россия)
ОЛЕЙНИКОВА ОЛЬГА НИКОЛАЕВНА
Директор Национального офиса Erasmus+ в России,
Доктор педагогических наук, профессор

11.05 Политехнический государственный университет Лозанны (г. Лозанна, Швейцария)
СЕКАЦКИЙ СЕРГЕЙ КУПРИЯНОВИЧ
Заведующий лаборатории физики живой материи,
доктор физико-математических наук

ПЛЕНАРНЫЕ ДОКЛАДЫ:

11.10 **ИСАЕВ ВЛАДИМИР ГЕННАДЬЕВИЧ**
Технологический университет (г. Королев, Россия)
Заведующий кафедрой управления качеством и стандартизации,
кандидат технических наук, доцент
О ПРОВЕДЕНИИ БЕНЧМАРКИНГА ВЫСШЕГО ОБРАЗОВАНИЯ НА ОСНОВЕ СИСТЕМ ОЦЕНКИ ДЕЯТЕЛЬНОСТИ ОБРАЗОВАТЕЛЬНЫХ ОРГАНИЗАЦИЙ
Соавтор: Юров В.М., Технологический университет (г. Королев, Россия)

11.20 **ИВАНА БУЖАН (IVANA BUJAN)**
Политехнический университет Меджимурья в Чаковце (г. Чаковец, Хорватия)
Проректор по качеству и международному сотрудничеству,
кандидат философских наук
МЕЖДУНАРОДНАЯ МОБИЛЬНОСТЬ В ПОЛИТЕХНИЧЕСКОМ УНИВЕРСИТЕТЕ МЕДЖИМУРЬЯ В ЧАКОВЦЕ

11.30 **ИЗМАЙЛОВА МАРИНА АЛЕКСЕЕВНА**
Финансовый университет при Правительстве Российской Федерации (г. Москва, Россия)
Профессор департамента корпоративных финансов и корпоративного управления,
доктор экономических наук
ЭКСПОРТ ОБРАЗОВАНИЯ В РОССИИ: ПРОБЛЕМЫ И ПУТИ РЕШЕНИЯ

11.40 **ШАЙЖАНОВ МУХАНБЕТАЛЫ КАЛИЕВИЧ**
Финансовая академия (г. Нур-Султан, Казахстан)
Исполняющий обязанности ректора,
кандидат экономических наук, доцент, профессор
ИНТЕГРАЦИЯ ВЫСШЕГО И ПОСЛЕВУЗОВСКОГО ОБРАЗОВАНИЯ В УСЛОВИЯХ ЕАЭС

11.50 **БУТУЗОВ АЛЕКСЕЙ ГЕННАДЬЕВИЧ**
Технологический университет (г. Королев, Россия)
Доцент кафедры экономики,
кандидат географических наук
ОТЕЧЕСТВЕННЫЙ И ЗАРУБЕЖНЫЙ ОПЫТ ИНТЕРНАЦИОНАЛИЗАЦИИ ВЫСШЕГО ОБРАЗОВАНИЯ: КРОССКУЛЬТУРНЫЙ АСПЕКТ

12.00 **ЗЛОТНИКОВА ЛИДИЯ МИХАЙЛОВНА**
Белорусский торгово-экономический университет потребительской кооперации (г. Гомель, Беларусь)
Доцент кафедры права и экономических теорий,
кандидат экономических наук
ИНТЕГРАЦИЯ ИЛИ КОНКУРЕНЦИЯ В СИСТЕМЕ ОБРАЗОВАНИЯ

12.10 ПОГОДИНА ТАТЬЯНА ВИТАЛЬЕВНА

Финансовый университет при Правительстве Российской Федерации (г. Москва, Россия)

Профессор департамента менеджмента,
доктор экономических наук

СОВРЕМЕННЫЕ ФОРМЫ ТЕХНОЛОГИЧЕСКОГО РАЗВИТИЯ НА ОСНОВЕ ИНТЕГРАЦИИ ОБРАЗОВАНИЯ И РЕАЛЬНОГО СЕКТОРА ЭКОНОМИКИ

12.20 ЭШАНОВ АЛИШЕР АЛИМДЖАНОВИЧ

Колледж космического машиностроения и технологий, Технологический университет (г. Королев, Россия)

Председатель цикловой комиссии программирования и информационной безопасности,
кандидат физико-математических наук

ВЗАИМОДЕЙСТВИЕ НАЦИОНАЛЬНЫХ ОБЩЕСТВЕННЫХ ОРГАНИЗАЦИЙ С РОССИЙСКИМИ УЧЕБНЫМИ ЗАВЕДЕНИЯМИ ДЛЯ АДАПТАЦИИ И ИНТЕГРАЦИИ ЗАРУБЕЖНОЙ МОЛОДЕЖИ

12.30 ГУСЬКОВА МАРИНА ФЕДОРОВНА

Российский университет транспорта (МИИТ)
(г. Москва, Россия)

Профессор кафедры менеджмента качества,
доктор экономических наук

ЭФФЕКТИВНОСТЬ МЕЖДУНАРОДНОГО СОТРУДНИЧЕСТВА РОССИЙСКИХ И ЗАРУБЕЖНЫХ ВУЗОВ ДЛЯ ДОСТИЖЕНИЯ ЦЕЛИ УСТОЙЧИВОГО РАЗВИТИЯ

12.40 ЯРОСЛАВ КУЛТАН (JAROSLAV KULTAN)

Экономический университет в Братиславе
(г. Братислава, Словакия)

Профессор кафедры прикладной информатики,
доктор технических наук

МЕЖДУНАРОДНОЕ ОБУЧЕНИЕ - СПОСОБ ПОВЫШЕНИЯ КАЧЕСТВА ОБУЧЕНИЯ

12.50 **СИЛЬЧЕВА ЛЮДМИЛА ВЛАДИМИРОВНА**

Техникум технологий и дизайна, Технологический университет (г. Королев, Россия)

Председатель цикловой комиссии конструирования и моделирования технологий швейных изделий,

кандидат технических наук, доцент

МЕЖДУНАРОДНОЕ СОТРУДНИЧЕСТВО В ОБЛАСТИ ВЫСШЕГО И СРЕДНЕГО ОБРАЗОВАНИЯ

Соавтор: Тимур Абесадзе, Университетский колледж юго-восточной Норвегии (Бё, Норвегия)

VII Future trends, organizational forms and effectiveness of cooperation development between Russian and foreign universities

10th of April 2019

Plenary session

Moderators

Natalia Babina
Vice-Rector for Academic Affairs,
PhD in Economics, associate professor

Andrey Novichkov
Deputy Head of Engineering and Digital Technology Institute,
PhD in History, associate professor

The opening speech to the participants:

10.30 University of Technology (Korolev, Russia)
OLGA KOVALSKAYA
First Vice-Rector,
PhD in Pedagogy

10.40 Polytechnic of Međimurje in Čakovec (Čakovec, Croatia)
NEVENKA BRESLAUER
Dean,
PhD, associate professor

10.50 Finance Academy (Nur-Sultan, Kazakhstan)
MUKHAMBETALY SHAIZHANOV
Acting Rector,
PhD in Economics, associate professor, professor

11.00 National ERASMUS+ Office in Russia
Olga OLEYNIKOVA
Head of the National ERASMUS+ Office in Russia,
Dr.Sci. in Pedagogy, professor

11.05 École Polytechnique Fédérale de Lausanne
(Lausanne, Switzerland)
SERGEY SEKATSKIY
Head of Laboratory of Physics of Living Matter,
Dr.Sci. in Physics and Mathematics

PLENARY REPORTS

11.10 **VLADIMIR ISAEV**
University of Technology (Korolev, Russia)
Head of Quality Management and Standardization Department,
PhD in Engineering, associate professor
ON THE CONDUCT OF BENCHMARKING IN HIGHER EDUCATION BASED ON EVALUATION SYSTEMS OF EDUCATION ORGANIZATION ACTIVITIES
Coauthor: Yurov V.M., University of Technology
(Korolev, Russia)

11.20 **IVANA BUJAN,**
Polytechnic of Međimurje in Čakovec (Čakovec, Croatia)
Vice-Dean for Quality and International Relations,
PhD, senior lecturer
INTERNATIONAL MOBILITY AT THE POLYTECHNIC OF MEĐIMURJE IN ČAKOVEC

11.30 **MARINA IZMAYLOVA**
Financial University under the Government of the Russian Federation (Moscow, Russia)
Professor of Corporate Finance and Corporate Management Department,
Dr.Sci. in Economics
EXPORT OF EDUCATION IN RUSSIA: ISSUES AND SOLUTIONS

11.40 **MUKHAMBETALY SHAIZHANOV**
Finance Academy (Nur-Sultan, Kazakhstan)
Acting Rector,
PhD in Economics, associate professor, professor
INTEGRATION OF HIGHER AND POSTGRADUATE EDUCATION IN THE CONTEXT OF EAEC

11.50 **ALEKSEY BUTUZOV**
University of Technology (Korolev, Russia)
Associate professor of Economics Department,
PhD in Geography
RUSSIAN AND FOREIGN BEST PRACTICES OF UNIVERSITY INTERNATIONALIZATION: CROSS-CULTURE ASPECT

12.00 **LYDIA ZLOTNIKOVA**
Belarusian Trade and Economics University of Consumer Cooperatives (Gomel, Belarus)
Associate professor of Law and Economic Theories Department,
PhD in Economics
INTEGRATION OF COMPETITION IN THE EDUCATION SYSTEM

12.10 **TATYANA POGODINA**
Financial University under the Government of the Russian Federation (Moscow, Russia)
Professor of Management Department,
Dr.Sci. in Economics
MODERN FORMS OF TECHNOLOGICAL DEVELOPMENT BASED ON THE INTEGRATION OF EDUCATION AND REAL SECTOR OF ECONOMY

12.20 **ALISHER ESHANOV**
College of Space Engineering and Technology,
University of Technology (Korolev, Russia)
Head of Cycle Committee for Programming and Information Security,
PhD in Physics and Mathematics

INTERACTION OF NATIONAL PUBLIC ORGANIZATIONS WITH RUSSIAN EDUCATIONAL INSTITUTIONS FOR THE PURPOSE OF ADAPTAION AND INTEGRATION OF FOREIGN YOUTH

12.30 **MARINA GUSKOVA**
Russian University of Transport (MIIT) (Moscow, Russia)
Professor of Quality Management Department
Dr.Sci. in Economics
EFFICIENCY OF INTERNATIONAL COOPERATION OF RUSSIAN AND FOREIGN INSTITUTIONS OF HIGHER LEARNING FOR GAINING END OF STEADY DEVELOPMENT

12.40 **JAROSLAV KULTAN**
University of Economics in Bratislava (Bratislava, Slovakia)
Professor of Applied Informatics Department
Dr.Sci. in Engineering
INTERNATIONAL EDUCATION – WAY TO IMPROVE EDUCATION QUALITY

12.50 **LUIDMILA SILCHEVA**
Technology and Design College, University of Technology (Korolev, Russia)
Head of Cycle Committee for Construction and Modeling of Garments Technology
PhD in Engineering, associate professor
INTERNATIONAL COOPERATION IN THE FIELD OF HIGHER AND SECONDARY EDUCATION
Coauthors: Teimuraz Abesadze, University College Of The South-East Of Norway (Bo, Norway)

СТУДЕНЧЕСКАЯ СЕКЦИЯ

«Аспекты образовательной интеграции молодежи в современных условиях»

208 аудитория
14.00 – 16.00

Модераторы
Аренд Оксана Юрьевна
Директор Института международного образования
Сергеев Евгений Павлович
Начальник Управления по международному сотрудничеству и интеграции в образовательное сообщество

Пашина Алина
Российский университет транспорта (МИИТ), г. Москва, Россия
ЭФФЕКТИВНОСТЬ ОБРАЗОВАТЕЛЬНОЙ ИНТЕГРАЦИИ МОЛОДЕЖИ С ТОЧКИ ЗРЕНИЯ ОБЕСПЕЧЕНИЯ ЦЕЛИ УСТОЙЧИВОГО РАЗВИТИЯ

Бердиев Рустам
Технологический университет, г. Королев, Россия
ОСОБЕННОСТИ МИГРАЦИОННЫХ ПРОЦЕССОВ В СОВРЕМЕННОЙ РОССИИ
Соавтор: Федотов А.В.

Ганеева Александра
Технологический университет, г. Королев, Россия
ПРОБЛЕМА АДАПТАЦИИ ИНОСТРАННЫХ СТУДЕНТОВ ПЕРВЫХ КУРСОВ «МГОТУ»: СОЦИОЛОГИЧЕСКИЙ АНАЛИЗ

Трущенко Наталья
Технологический университет, г. Королев, Россия
ИНТЕГРАЦИЯ МОЛОДЕЖИ В ОБРАЗОВАТЕЛЬНУЮ СРЕДУ ГОРОДА КОРОЛЕВ ЧЕРЕЗ ИГРОВЫЕ ТЕХНОЛОГИИ

Исьянова Сабина
Техникум технологий и дизайна,
Технологический университет, г. Королев, Россия
РОЛЬ ЗАРУБЕЖНОЙ СТАЖИРОВКИ В ПРОЦЕССЕ ПОДГОТОВКИ ВЫПУСКНИКОВ ПО СПЕЦИАЛЬНОСТИ ГРАФИЧЕСКИЙ ДИЗАЙН
Соавтор: Солодовникова Л.Ю.

Ермакова Анна
Технологический университет, г. Королев, Россия
ПОТРЕБИТЕЛЬСКИЕ ПРЕДПОЧТЕНИЯ НА РЫНКЕ ОБРАЗОВАТЕЛЬНЫХ УСЛУГ СТРАН СНГ

Хейфец Екатерина
Технологический университет, г. Королев, Россия
ИНСТИТУТ НАСТАВНИЧЕСТВА КАК ЭФФЕКТИВНЫЙ СПОСОБ ИНТЕГРАЦИИ МОЛОДЕЖИ В ОБРАЗОВАТЕЛЬНОЙ ОРГАНИЗАЦИИ

Половинкина Вероника
Технологический университет, г. Королев, Россия
ОБЕСПЕЧЕНИЕ КИБЕРБЕЗОПАСНОСТИ СИСТЕМЫ «ИНТЕРНЕТА ВЕЩЕЙ» С ПОМОЩЬЮ ТЕХНОЛОГИИ РАСПРЕДЕЛЕННОГО РЕЕСТРА (В ИНТЕРЕСАХ РАЗВИТИЯ МЕЖДУНАРОДНОГО СОТРУДНИЧЕСТВА В СФЕРЕ ОБРАЗОВАНИЯ)
Соавтор: Степанов А.В., Сухотерин А.И.

Газарьян Владимир
Технологический университет, г. Королев, Россия
АСПЕКТЫ ОБРАЗОВАТЕЛЬНОЙ ИНТЕГРАЦИИ МОЛОДЕЖИ В СОВРЕМЕННЫХ УСЛОВИЯХ
Соавторы: Дорофеев Э., Дудина В., Костылев А.Г.

Киритив Алина
Технологический университет, г. Королев, Россия
ОБРАЗОВАТЕЛЬНАЯ ИНТЕГРАЦИЯ ЛИЦ С ОВЗ И ИНОСТРАННЫХ СТУДЕНТОВ
Соавтор: Федотов А.В.

Титоян Лариса
Колледж космического машиностроения и технологий,
Технологический университет, г. Королев, Россия
СРАВНИТЕЛЬНЫЙ АНАЛИЗ СИСТЕМ СРЕДНЕГО ПРОФЕССИОНАЛЬНОГО ОБРАЗОВАНИЯ В РОССИИ И АРМЕНИИ
Соавторы: Капралов А.О., Эшанов А.А., Соколова А.А.

Смирнов Глеб
Технологический университет, г. Королев, Россия
ПРАКТИЧЕСКОЕ ЭФФЕКТИВНОЕ НАУЧНО-ТЕХНИЧЕСКОЕ СОТРУДНИЧЕСТВО РОССИЙСКИХ И ЗАРУБЕЖНЫХ ВУЗОВ
Соавторы: Щиканов А.Ю., Исаев В.Г., Голубев А.П., Курочкина А.

Хатамова Нигорахон
Технологический университет, г. Королев, Россия
ОСОБЕННОСТИ ЦЕННОСТНЫХ ОРИЕНТАЦИЙ РОССИЙСКИХ И УЗБЕКСКИХ СТУДЕНТОВ
Соавторы: Яруллина Р., Костыря С.С., Жарких Н.Г.

STUDENT SECTION
«The educational integration of youth in modern conditions»

Audience 208
14.00 – 16.00

Moderators
Oksana Arend
Head of International Education Institute
Evgenii Sergeev
Head of Supplementary Education Institute

Alina Pashina
Russian University of Transport (MIIT), Moscow, Russia
EFFECTIVENESS OF YOUTH EDUCATIONAL INTEGRATION IN TERMS OF ENSURING SUSTAINABLE DEVELOPMENT

Rustam Berdiyev
University of Technology, Korolev, Russia
FEATURES OF MIGRATION PROCESSES IN MODERN RUSSIA
Coauthor: Fedotov A.V.

Aleksandra Ganeeva
University of Technology, Korolev, Russia
PROBLEMS OF FOREIGN FRESHMEN STUDENTS ADAPTATION IN UNITECH: SOCIOLOGICAL ANALYSIS

Natalya Trushchenko
University of Technology, Korolev, Russia
YOUTH INTEGRATION IN THE EDUCATIONAL ENVIRONMENT OF KOROLEV THROUGH GAME TECHNOLOGIES

Sabina Isyanova
Technology and Design College, University of Technology, Korolev, Russia
THE ROLE OF INTERNSHIP IN THE TRAINING OF GRADUATES IN THE PROFESSION OF GRAPHIC DESIGNER
Coauthor: Solodovnikova L.Yu.

Anna Ermakova
University of Technology, Korolev, Russia
CONSUMER PREFERENCES IN THE MARKET OF EDUCATIONAL SERVICES OF THE CIS COUNTRIES

Ekaterina Heifetz
University of Technology, Korolev, Russia
INSTITUTE OF MENTORING AS EFFECTIVE WAY TO INTEGRATE YOUTH IN EDUCATIONAL ORGANIZATION

Veronika Polovinkina
University of Technology, Korolev, Russia
ENSURING SECURITY OF «INTERNET OF THINGS» SYSTEM BY MEANS OF DISTRIBUTED REGISTRY TECHNOLOGY (FOR DEVELOPMENT OF INTERNATIONAL COOPERATION IN THE EDUCATION FIELD)
Coauthor: Stepanov A.V., Sukhoterin A.I.

Vladimir Gazaryan
University of Technology, Korolev, Russia
ASPECTS OF EDUCATIONAL YOUTH INTEGRATION IN MODERN CONDITIONS
Coauthors: Dorofeev E.Y., Dudina V.V., Kostylev.A.G. Э.

Alina Kiritiv
University of Technology, Korolev, Russia
EDUCATIONAL INTEGRATION OF STUDENTS WITH DISABILITIES AND INTERNATIONAL STUDENTS
Coauthor: Fedotov A.V.

Larisa Titoyan
Space Engineering and Technology College,
University of Technology, Korolev, Russia
COMPARATIVE ANALYSIS OF SECONDARY PROFESSIONAL EDUCATION SYSTEMS IN RUSSIA AND ARMENIA
Coauthors: Kapralov A.O., Eshanov A.A., Sokolova A.A.

Gleb Smirnov
University of Technology, Korolev, Russia
PRACTICAL EFFECTIVE SCIENCE AND TECHNICAL COOPERATION OF RUSSIAN AND FOREIGN UNIVERSITIES
Coauthors: Shchikanov A.Yu., Golubev A.P., Kurochkina A.

Nigorakhon Khatamova
University of Technology, Korolev, Russia
FEATURES OF VALUE ORIENTATIONS OF RUSSIAN AND UZBEK STUDENTS
Coauthors: Yarullina R., Kostyrya S.S., Zharkih N.G.

VII Международная научно-практическая конференция «Перспективы, организационные формы и эффективность развития сотрудничества российских и зарубежных ВУЗов»

11 апреля 2019 года

Работа секций

СЕКЦИЯ
«Интеграционные процессы в современной экономике и управлении»
208 аудитория
10.40-13.00

Модераторы
Алексахина Вера Григорьевна
Директор Института проектного менеджмента и инженерного бизнеса, кандидат экономических наук, доцент
Баширова Светлана Викторовна
Заместитель директора Института проектного менеджмента и инженерного бизнеса, кандидат педагогических наук, доцент

Курдюкова Наталия Олеговна
Технологический университет, г. Королев, Россия
ТРАНСНАЦИОНАЛЬНОЕ ОБРАЗОВАНИЕ КАК НОВАЯ ФОРМА ЭКСПОРТА ОБРАЗОВАТЕЛЬНЫХ УСЛУГ
Соавтор: Банк О.А.

Ларионов Алексей Эдиславович
Технологический университет, г. Королев, Россия
ПРАКТИЧЕСКИЙ ОПЫТ МЕЖДУНАРОДНОГО СОТРУДНИЧЕСТВА ВУЗОВ В СФЕРЕ ГРАНТОВЫХ ПРОЕКТОВ

Игнатова Ольга Владимировна
Финансовый университет при Правительстве Российской Федерации, г. Москва, Россия
РАЗВИТИЕ СЕТЕВЫХ УНИВЕРСИТЕТОВ В КОНЦЕПЦИИ РЕГИОНАЛИЗАЦИИ МИРОВОЙ ЭКОНОМИКИ: НОРМАТИВНО-ПРАВОВОЕ ОБЕСПЕЧЕНИЕ

Красикова Тамара Ивановна
Технологический университет, г. Королев, Россия
К ВОПРОСУ РАЗВИТИЯ РАННЕЙ ПРОФЕССИОНАЛИЗАЦИИ В ОБУЧЕНИИ ИНОСТРАННОМУ ЯЗЫКУ НА ТЕХНИЧЕСКИХ СПЕЦИАЛЬНОСТЯХ

Гордеева Дарья Владимировна
Технологический университет, г. Королев, Россия
ПРОБЛЕМЫ РАЗВИТИЯ ЭКОНОМИЧЕСКОЙ ИНТЕГРАЦИИ ПРОМЫШЛЕННЫХ ПРЕДПРИЯТИЙ СТРАН СНГ
Соавтор: Федотов А.В.

Краснобаева Ирина Александровна
Техникум технологий и дизайна,
Технологический университет, г. Королев, Россия
МОДЕРНИЗАЦИЯ ОБРАЗОВАТЕЛЬНОЙ СФЕРЫ НА ПЛАТФОРМЕ ФЕДЕРАЛЬНЫХ УНИВЕРСИТЕТОВ

Салманов Олег Николаевич
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МИРОВЫЕ НАУЧНЫЕ ПОИСКОВЫЕ СИСТЕМЫ, ИССЛЕДОВАТЕЛЬСКИЕ ПЛАТФОРМЫ И СРЕДСТВА СОТРУДНИЧЕСТВА УЧЕНЫХ НА БАЗЕ СОЦИАЛЬНЫХ СЕТЕЙ

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ИННОВАЦИОННЫЕ ФОРМЫ ОБУЧЕНИЯ КАК ПРЕДМЕТ СОТРУДНИЧЕСТВА ВУЗОВ

Голованова Светлана Владимировна
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МЕЖДУНАРОДНЫЙ ОПЫТ ПОДГОТОВКИ УЧАСТНИКОВ К ЧЕМПИОНАТУ WORLDSKILLS ПО КОМПЕТЕНЦИИ «ТЕХНОЛОГИИ МОДЫ»

VII Future trends, organizational forms and effectiveness of cooperation development between Russian and foreign universities

11th of April 2019

Working sections

SECTION

«Integration processes in modern economy and management»

Audience 208

10.40-13.00

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TRANSNATIONAL EDUCATION AS A NEW FORM OF EXPORT OF EDUCATIONAL SERVIVSES
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PRACTICAL EXPERIENCE OF INTERNATIONAL COOPERATION BETWEEN UNIVERSITIES IN THE SPHERE OF GRANT PROJECTS

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DEVELOPMENT IF NETWORK UNIVERSITIES IN THE CONCEPT OF WORLD ECONOMY REGIONALIZATION: REGULATORY AND LEGAL SUPPORT

Tamara Krasikova
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ON THE DEVELOPMENT OF EARLY PROFESSIONALIZATION IN TEACHING FOREIGN LANGUAGES ON TECHNICAL SPECIALITIES

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PROBLEMS OF ECONOMIC INTEGRATION DEVELOPMENT OF INDUSTRIAL ENTERPRISES OF THE CIS COUNTRIES
Coauthor: Fedotov A.V.

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THE MODERNIZATION OF THE EDUCATION SECTOR ON THE PLATFORM OF THE FEDERAL UNIVERSITIES

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WORLD SCIENTIFIC SEARCH SYSTEMS, RESEARCH PLATFORMS AND SOCIAL NETWORKING TOOLS FOR SCIENTIFIC COOPERATION

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INNOVATIVE METHODS OF EDUCATION AS UNIVERSITIES' COOPERATION SUBJECT

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INTERNATIONAL TRAINING EXPERIENCE OF THE PARTICIPANTS TO THE WORLDSKILLS CHAMPIONSHIP IN THE SKILL «TECHNOLOGY FASHION»

СЕКЦИЯ

«Интернационализация вуза как фактор повышения качества образования. Повышение роли вузовской науки в условиях глобализации»

409 аудитория
10.40-13.00

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ОНЛАЙН ОБРАЗОВАНИЕ И ВИРТУАЛЬНАЯ АКАДЕМИЧЕСКАЯ МОБИЛЬНОСТЬ

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СРАВНИТЕЛЬНЫЙ АНАЛИЗ СРЕДСТВ СЖАТИЯ И ОБРАБОТКИ РАСТРОВЫХ ИЗОБРАЖЕНИЙ JPEG, JPEG 2000, ICER И PNG

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НОВЫЕ ПОДХОДЫ К ПОДГОТОВКЕ УПРАВЛЕНЧЕСКИХ КАДРОВ ДЛЯ НАЦИОНАЛЬНОГО ЗДРАВООХРАНЕНИЯ В УСЛОВИЯХ ГЛОБАЛИЗАЦИИ ЭКОНОМИКИ

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АНАЛИЗ ОТЕЧЕСТВЕННОГО И ЗАРУБЕЖНОГО ОПЫТА ЛОГИСТИЧЕСКИХ ОПЕРАЦИЙ С ТВЕРДЫМИ БЫТОВЫМИ ОТХОДАМИ
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ОСНОВНЫЕ ПРОБЛЕМЫ ОБЕСПЕЧЕНИЯ КАЧЕСТВЕННОГО ПРИМЕНЕНИЯ КОМПЛЕКСНЫХ СИСТЕМ КОНТРОЛЯ И УПРАВЛЕНИЯ ДОСТУПОМ К ИНФОРМАЦИОННЫМ РЕСУРСАМ РОССИЙСКИХ И ЗАРУБЕЖНЫХ ВУЗОВ
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СИСТЕМЫ МЕНЕДЖМЕНТА ОХРАНЫ ЗДОРОВЬЯ И ОБЕСПЕЧЕНИЯ БЕЗОПАСНОСТИ ТРУДА В ОБРАЗОВАТЕЛЬНОМ ПРОЦЕССЕ
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АКТУАЛЬНЫЕ РЕПЕРЫ ВЗАИМОДЕЙСТВИЯ РОССИЙСКИХ И ЗАРУБЕЖНЫХ СИСТЕМ ОБРАЗОВАНИЯ В ГЛОБАЛИЗОВАННОЙ СРЕДЕ СОВРЕМЕННОГО МИРА

SECTION

«University internationalization as a quality increasing factor for the education. Enhancing the role of university research in the context of globalization»

Audience 409
10.40-13.00

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ONLINE EDUCATION AND VIRTUAL ACADEMIC MOBILITY

Samarov Eugene
University of Technology, Korolev, Russia
COMPARATIVE ANALYSIS FOR BIT MAP IMAGE COMPRESSION AND PROCESSING FACILITIES JPEG, JPEG 2000, ICER AND PNG

Mikhail Pirogov
University of Technology, Korolev, Russia
NEW APPROACHES TO MANAGEMENT TRAINING FOR NATIONAL HEALTH CARE IN A GLOBALIZED ECONOMY

Ekaterina Egorova
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ANALYSIS OF DOMESTIC AND FOREIGN EXPERIENCE IN LOGISTICS OPERATIONS WITH MUNICIPAL SOLID WASTE
Coauthor: Shchurin K.V.

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THE MAJOR PROBLEMS OF PROVIDING A QUALITATIVE APPLYING OF A COMPLEX PHYSICAL ACCESS CONTROL SYSTEM TO INFORMATION RESOURCES OF RUSSIAN AND FOREIGN UNIVERSITIES
Coauthor: Bulat A.S.

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СИСТЕМЫ МЕНЕДЖМЕНТА ОХРАНЫ ЗДОРОВЬЯ И ОБЕСПЕЧЕНИЯ БЕЗОПАСНОСТИ ТРУДА В ОБРАЗОВАТЕЛЬНОМ ПРОЦЕССЕ
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ACTUAL REFERENCE POINTS OF INTERACTION BETWEEN RUSSIAN AND FOREIGN EDUCATION SYSTEMS IN THE GLOBALIZED ENVIRONMENT OF THE MODERN WORLD.

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ЭКОНОМИЧЕСКИЙ ЭФФЕКТ ВЛИЯНИЯ ЕДИНОГО ФИНАНСОВОГО РЫНКА СТРАН ЕАЭС НА РЕСПУБЛИКУ КАЗАХСТАН

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СИСТЕМЫ МЕНЕДЖМЕНТА ОХРАНЫ ЗДОРОВЬЯ И ОБЕСПЕЧЕНИЯ БЕЗОПАСНОСТИ ТРУДА В ОБРАЗОВАТЕЛЬНОМ ПРОЦЕССЕ

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ЦИФРОВАЯ ЭКОНОМИКА - ФАКТОР УСТОЙЧИВОГО ЭКОНОМИЧЕСКОГО РОСТА ГОСУДАРСТВА

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ФУНКЦИЯ БЕЗБУМАЖНОГО ПРЕДСТАВЛЕНИЯ ИНФОРМАЦИИ В ФОРМИРОВАНИИ КОММУНИКАТИВНОЙ КОМПЕТЕНЦИИ СТУДЕНТОВ ОБУЧАЮЩИХСЯ НА ТЕХНИЧЕСКИХ СПЕЦИАЛЬНОСТЯХ

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ИНТЕГРАТИВНЫЙ ПОДХОД В ОБУЧЕНИИ КАК ИНСТРУМЕНТ ПРОФЕССИОНАЛЬНОГО РАЗВИТИЯ СТУДЕНТА

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СРАВНИТЕЛЬНЫЙ АНАЛИЗ НАЦИОНАЛЬНЫХ КУЛЬТУРНЫХ ЦЕННОСТЕЙ МЕНЕДЖЕРОВ 6 СТРАН: РОССИЯ, КАЗАХСТАН, УЗБЕКИСТАН, ИНДИЯ, ГЕРМАНИЯ И США

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СОВРЕМЕННОЕ ОБРАЗОВАНИЕ В ВЫСШИХ УЧЕБНЫХ ЗАВЕДЕНИЯХ В КАЧЕСТВЕ ФАКТОРА КОНКУРЕНТОСПОСОБНОСТИ СТУДЕНТА НА ТРУДОВЫХ РОССИЙСКОЙ И ЗАРУБЕЖНОЙ АРЕНАХ

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ПЕРСПЕКТИВЫ РАЗВИТИЯ МОЛОДЕЖНОГО ПРЕДПРИНИМАТЕЛЬСТВА С УЧЕТОМ ПСИХОЛОГИЧЕСКИХ ОСОБЕННОСТЕЙ МОЛОДЕЖИ

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ПРАВОВАЯ ГРАМОТНОСТЬ ИНОСТРАННЫХ СТУДЕНТОВ МГОТУ: СОЦИОЛОГИЧЕСКИЙ АНАЛИЗ

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DEVELOPING PHILOLOGY STUDENTS' INFORMATION COMPETENCE IN BINARY CLASSES IN THE CONTEXT OF INTERNATIONALIZATION OF EDUCATION

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ЮРИДИЧЕСКАЯ КЛИНИКА КАК ИНТЕГРАЦИОННАЯ ПЛОЩАДКА В ОБРАЗОВНИИ СОВРЕМЕННОЙ МОЛОДЕЖИ НА ПРИМЕРЕ ЮРИДИЧЕСКОЙ КЛИНИКИ ГРОДНЕНСКОГО ГОСУДАРСТВЕННОГО УНИВЕРСИТЕТА ИМЕНИ ЯНКИ КУПАЛЫ

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ЦИФРОВЫЕ ТЕХНОЛОГИИ КАК ФАКТОР ИНТЕГРАЦИИ ЗАКУПОК СТРАН ЕАЭС

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МЕТОДОЛОГИЧЕСКИЕ ПОДХОДЫ СОВЕРШЕНСТВОВАНИЯ УПРАВЛЕНИЯ СОЦИАЛЬНО-ЭКОНОМИЧЕСКИМ РАЗВИТИЕМ МУНИЦИПАЛЬНОГО ОБРАЗОВАНИЯ

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РОЛЬ ОБРАЗОВАНИЯ И НАУКИ В ПРОЦЕССЕ МИРОВОЙ ГЛОБАЛИЗАЦИИ

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ВЗАИМОДЕЙСТВИЕ ПРЕПОДАВАТЕЛЯ И СТУДЕНТА В СОВРЕМЕННОМ ОБРАЗОВАТЕЛЬНОМ МЕДИАПРОСТРАНСТВЕ В СОЦИОЛОГИЧЕСКОМ ИЗМЕРЕНИИ

35. **Королев К.Ю.**
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INTERNATIONALIZATION OF HIGHER EDUCATION BY MEANS OF INTERNATIONAL COOPERATION: PENZA STATE UNIVERSITY EXPERIENCE

36. **Лазебная Е.М.**
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МОНИТОРИНГ РЫНКА ОБРАЗОВАТЕЛЬНЫХ УСЛУГ ДОШКОЛЬНОГО ОБРАЗОВАНИЯ

37. **Лебедева Е.Н.**
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ПРОБЛЕМЫ РАЗВИТИЯ ИНТЕЛЛЕКТУАЛЬНОГО КАПИТАЛА РЕСПУБЛИКИ БЕЛАРУСЬ В КОНТЕКСТЕ ПРОЦЕССОВ МЕЖДУНАРОДНОЙ ИНТЕГРАЦИИ

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Технологический университет, г. Королев, Россия / Уральский государственный горный университет, г. Екатеринбург, Россия
СОВЕРШЕНСТВОВАНИЕ ТЕХНОЛОГИЙ УСТОЙЧИВОГО РАЗВИТИЯ ПРЕДПРИЯТИЙ РЕГИОНА В УСЛОВИЯХ УПРАВЛЕНИЯ РИСКАМИ

39. **Муцеа Б.-Н., Абрашкин М.С.**
Университет «1 декабря 1918» Алба Юлия, г. Алба Юлия, Румыния / Технологический университет, г. Королев, Россия
THE BENEFITS OF DUAL EDUCATION IN TECHNLOGICAL HIGH SCHOOLS

40. **Нагорная О.А.**
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ВНЕДРЕНИЕ КОРПОРАТИВНЫХ ИНФОРМАЦИОННЫХ СИСТЕМ КАК ФАКТОР СОВЕРШЕНСТВОВАНИЯ СИСТЕМЫ УПРАВЛЕНИЯ ВУЗА

41. **Павлич Т., Юркович И.,Джусич Е.**
Бьеловарский университет прикладных наук, г. Бьеловар, Хорватия
A MULTIDISCIPLINARY APPROACH TO TEACHING COGNITIVE ROBOTICS AND ENGLISH TERMINOLOGY BY INVOLVING THE ITERNATIONAL ASPECTS IN HIGHER EDUCATION

42.**Павлич Т., Юркович И., Кралжич Л.**
Бьеловарский университет прикладных наук, г. Бьеловар, Хорватия
AN INTEGRATED APPROACH TO CONNECTING UNIVERSITY RESEARCH AND MANUFACTURING COMPANIES IN THE FIELD OF COGNITIVE ROBOTICS AND ENGLISH FOR SPECIFIC PURPOSES

43. **Пиунова Я.В.**
Технологический университет, г. Королев, Россия
СОВЕРШЕНСТВОВАНИЕ ТЕХНОЛОГИЙ УСТОЙЧИВОГО РАЗВИТИЯ ПРЕДПРИЯТИЙ РЕГИОНА В УСЛОВИЯХ УПРАВЛЕНИЯ РИСКАМИ

44. **Романов П.С.**
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О МЕТОДОЛОГИЧЕСКОЙ КОНЦЕПЦИИ РАБОТЫ NASA С ШКОЛЬНИКАМИ СТАРШИХ КЛАССОВ: CASE – STUDY АЭРОКОСМИЧЕСКОЙ ОТРАСЛИ США

45. **Самошкина М.В.**
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ОЦЕНКА УРОВНЯ ФИНАНСОВОЙ ГРАМОТНОСТИ НАСЕЛЕНИЯ СТРАН МИРА

46. **Скворцова О.В.**
Технологический университет, г. Королев, Россия
ФОРМИРОВАНИЕ МОДЕЛИ ОБУЧЕНИЯ ИСТОРИИ ИНОСТРАННЫХ СТУДЕНТОВ В ТЕХНИЧЕСКОМ ВУЗЕ В СМЕШАННЫХ ГРУППАХ КАК ФАКТОР ПОВЫШЕНИЯ КАЧЕСТВА ОБРАЗОВАНИЯ

47. **Соломонов В.А., Фомина Е.А.**
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МОТИВАЦИИ К УЧЕБНОЙ ДЕЯТЕЛЬНОСТИ ИНОСТРАННЫХ СТУДЕНТОВ В КОНТЕКСТЕ ПОВЫШЕНИЯ КАЧЕСТВА ОБРАЗОВАНИЯ

48. **Солопанова О.Ю., Ашурбеков Р.Х., Шукурова С.М., Мухаммад Олим Х.У.у., Солиев А.**

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СРАВНИТЕЛЬНОЕ ИССЛЕДОВАНИЕ СХОДСТВ И РАЗЛИЧИЙ НАЦИОНАЛЬНЫХ КУЛЬТУРНЫХ ЦЕННОСТЕЙ СТУДЕНТОВ, ОБУЧАЮЩИХСЯ В ПРОГРАММЕ ПОДГОТОВКИ БАКАЛАВРОВ ПО НАПРАВЛЕНИЮ “УПРАВЛЕНИЕ ВОЗДУШНЫМ ДВИЖЕНИЕМ”

49. **Сырейщикова О.А., Архипова Т.Н.**

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АДАПТАЦИЯ СТУДЕНТОВ ДИЗАЙНЕРОВ ПЕРВОГО КУРСА К УСЛОВИЯМ ВУЗА

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ИНТЕРНАЛИЗАЦИЯ ОБРАЗОВАНИЯ И ЭКОНОМИКА ЗНАНИЙ

52. **Торицын И.В., Исаев В.Г.**

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ОЦЕНКА ИНВЕСТИЦИОННОЙ ПРИВЛЕКАТЕЛЬНОСТИ ЦЕЛЕСООБРАЗНОСТИ ВНЕДРЕНИЯ КОМПЛЕКСА ПАТЕНТОВАННЫХ ТЕХНИЧЕСКИХ РЕШЕНИЙ ГЕНЕРАЦИИ ТЕПЛА И ТЕПЛОПОТРЕБЛЕНИЯ В МУНИЦИПАЛЬНЫХ ПРОГРАММАХ РЕНОВАЦИИ В РФ

53. **Уражок Т.В.**

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ОСОБЕННОСТИ ПОДГОТОВКИ НАУЧНО-ПЕДАГОГИЧЕСКИХ КАДРОВ В РОССИИ И ЗА РУБЕЖОМ

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ВНЕШНИЙ ДОЛГ РОССИИ И ТЕНДЕНЦИИ ЕГО ОБСЛУЖИВАНИЯ

55. **Фомин А.П., Афонин А.И.**
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ТЕХНОЛОГИИ ПРОФЕССИОНАЛЬНОГО ОБУЧЕНИЯ

56. **Хомиджонова М.А.**
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ОТЛИЧИТЕЛЬНЫЕ ОСОБЕННОСТИ ДИСТАНЦИОННОГО ОБУЧЕНИЯ В ПРОЦЕССЕ ВОСПИТАНИЯ МОЛОДЕЖИ

57. **Христофорова И.В.**
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ВЗАИМОДЕЙСТВИЕ КАФЕДРЫ ДИЗАЙНА ТЕХНОЛОГИЧЕСКОГО УНИВЕРСИТЕТА МОСКОВСКОЙ ОБЛАСТИ С ЗАРУБЕЖНЫМИ ПАРТНЕРАМИ: ОПЫТ НАУЧНОЙ, ПУБЛИКАЦИОННОЙ И ОБРАЗОВАТЕЛЬНОЙ ДЕЯТЕЛЬНОСТИ

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ПЕРСПЕКТИВЫ РАЗВИТИЯ ИНТЕГРАЦИИ СТРАН ЕАЭС

59. **Шайжанов, М.К.**
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ЭКОНОМИЧЕСКИЙ ЭФФЕКТ ВЛИЯНИЯ ЕДИНОГО ФИНАНСОВОГО РЫНКА ЕАЭС НА РЕСПУБЛИКУ КАЗАХСТАН

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УСИЛЕНИЕ ВУЗОВСКОЙ НАУКИ ПУТЕМ АКТИВИЗАЦИИ СТУДЕНЧЕСКОЙ МОЛОДЕЖИ

61. **Юркович И., Фак Т.**
Бьеловарский университет прикладных наук, г. Бьеловар, Хорватия
TEACHING ENGLISH FOR SPECIFIC PURPOSES AS AN ELEMENT OF INTERNATIONALISATION IN HIGHER EDUCATION

Remote participation

1. **Abbasova T.S., Akimkina E.E.**
University of Technology, Korolev, Russia
CONSTRUCTION OF A CONNECTION TABLE TO MULTI-DIMENSIONAL DATA CUBE WITH THE HELP OF WIDE PROGRAM PACKAGES

2. **Achokh D.A., Lastovenko D.V.**
University of Technology, Korolev, Russia
INTEGRATIVE APPROACH IN TRAINING AS A TOOL FOR STUDENT PROFESSIONAL DEVELOPMENT

3. **Ahmedov A.Yu.**
Namangan Engineering-Technological Institute, Namangan, Uzbekistan
NEW APPROACHES TO INTEGRATION OF HIGHER EDUCATION IN RUSSIA AND UZBEKISTAN FOR ECONOMIC MAJORS

4. **Akimkina E.E., Abbasov E.M.**
University of Technology, Korolev, Russia
NETWORK TECHNOLOGIES FOR REMOTE EDUCATION

5. **Aldoniyazov A.N., Doskalieva B.B.**
Financial academy, r. Nur-Sultan, Kazakhstan
ECONOMIC IMPACT OF THE EEU SINGLE FINANCIAL MARKET TO THE REPUBLIC OF KAZAKHSTAN

6. **Antonenko V.I.**
University of Technology, Korolev, Russia
GLOBALIZATION AS A CATALYST FOR ENHANCING ROLE OF UNIVERSITY SCIENCE IN SOCIAL PROGRESS

7. **Arenbayeva Zh.G.**
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INFORMATION TECHNOLOGY IN HIGH SCHOOL SCIENCE

8. **Ashurbekov R.Kh., Shukurova S.M., Babaeva N.A., Muhammad O.H., Saidov A.**
Tashkent State Technical University named after Islam Karimov, Tashkent, Uzbekistan
COMPARATIVE ANALYSIS OF NATIONAL CULTURAL VALUES OF MANAGERS OF 6 COUNTRIES: RUSSIA, KAZAKHSTAN, UZBEKISTAN, INDIA, GERMANY, USA

9. **Astasheva N.P., Averin V.S.**
University of Technology, Korolev, Russia / Francis Skaryna Gomel State University, Gomel, Belarus
HEALTH SECURITY AND WORK-SAFETY MANAGEMENT SYSTEMS IN THE EDUCATIONAL PROCESS

10. **Atdayeva O.G., Berdimuradova O.N.**
Turkmen State Institute of Economics and Management, Ashgabat, Turkmenistan
DIGITAL ECONOMY - A FACTOR OF SUSTAINABLE ECONOMIC GROWTH OF THE STATE

11. **Atrokhin A.M., Ozhereleva V.S.**
University of Technology, Korolev, Russia
FUNCTION OF PAPERLESS INFORMATION PRESENTATION IN DEVELOPMENT OF COMMUNICATION COMPETENCIES OF TECHNICAL MAJOR STUDENTS

12. **Bank O.A., Samoshkina M.B.**
University of Technology, Korolev, Russia
MODERN EDUCATION AT THE HIGHER EDUCATION INSTITUTIONS AS A CONTRIBUTING FACTOR OF STUDENT ON RUSSIAN AND FOREIGN AREAS

13. **Blinova J.S., Lastovenko D.V.**
University of Technology, Korolev, Russia
THE PROSPECTS OF DEVELOPMENT OF YOUTH BUSINESS TAKING INTO ACCOUNT PSYCHOLOGICAL FEATURES OF YOUTH

14. **Borisova N.G.**
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INFLUENCE OF INTERNATIONAL COOPERATION AT TRAINING QUALITY OF HEATPOWER ENGINEERING SPECIALISTS

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CREATING AND USING OF CATALOG OF TRAINING MATERIALS ON THE BASIS OF HYBRID INTELLIGENCE

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OPPORTUNITY OF DEVELOPMENT OF INTEGRATION OF THE EAEU COUNTRIES

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EUROPEAN DESIGN SCHOOLS

18. **Demenkova A.B.**
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MODERN TEACHING METHODS FOR STUDENTS OF CREATIVE METHODS

19. **Demenkova A.B. Sorokotyagina E.N.**
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COLLABORATION BETWEEN MOSCOW STATE UNIVERSITY NAMED AFTER A.N. KOSYGIN AND INTERNATIONAL DESIGN SCHOOL ESMOD

20. **Demenkova A.B., Sorokotyagina E.N.**
University of Technology, Korolev, Russia / Moscow State University named after A.N. Kosygin, Moscow, Russia
INTERNATIONAL COOPERATION PROGRAMME BETWEEN MOSCOW STATE UNIVERSITY NAMED AFTER A.N. KOSYGIN AND ITALIAN AND VOCATIONAL TECHNICAL INSTITUTE OF HIGH FASHION «SITAM»

21. **Dzhamaldinova M.D., Selivanov K.V.**
University of Technology, Korolev, Russia / Bauman Moscow State Technical University, Moscow, Russia
CASE-STUDY METHOD FOR STUDENTS OF HUMANITARIAN AND TECHNICAL MAJORS: SIMILARITIES AND DIFFERENCES

22. **Dudko, A.D., Korotkevich, Zh.A.**
Yanka Kupala State University of Grodno, Grodno, Belarus
DEVELOPING PHILOLOGY STUDENTS' INFORMATION COMPETENCE IN BINARY CLASSES IN THE CONTEXT OF INTERNATIONALIZATION OF EDUCATION

23. **Egorova V.K.**
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INFORMATION AND COMMUNICATIVE TECHNOLOGIES IN THE MODERN WORLD: RATINGS, EVALUATIONS, PROBLEMS

24. **Evseenko T.L.**
Yanka Kupala State University of Grodno, Grodno, Belarus
LEGAL CLINIC AS AN INTEGRATION OF OBRAZOVNI MODERN YOUTH ON THE EXAMPLE OF THE LEGAL CLINIC OF THE GRODNO STATE UNIVERSITY NAMED YANKA KUPALA

25. **Fomin A.P., Afonin A.I.**
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TECHNOLOGIES OF PROFESSIONAL TRAINING

26. **Gabbasova Zh.D.**
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SAP ERP IN THE CONDITIONS OF OIL AND GAS INDUSTRY ETERPRISES

27. **Ganeeva A.F., Lapshina K.V.**
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LEGAL AWARENESS OF UNITECH FOREIGN STUDENTS: SOCIOLOGICAL ANALYSIS

28. **Homidzhonova M.A.**
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DISTINCTIVE FEATURES OF DISTANCE LEARNING DURING YOUTH EDUCATION

29. **Iliasova M.K., Osmanova D.D.**
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STRATEGIC PLANNING AS A COMPOSITION OF THE STRATEGIC MANAGEMENT PROCESS AT THE ENTERPRISE

30. **Ismailov M.Z., Iliasova M.K.**
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METHODOLOGICAL APPROACHES TO IMPROVING THE MANAGEMENT OF SOCIO-ECONOMIC DEVELOPMENT OF MUNICIPAL EDUCATION

31. **Jurkovic I., Fak T.**
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TEACHING ENGLISH FOR SPECIFIC PURPOSES AS AN ELEMENT OF INTERNATIONALISATION IN HIGHER EDUCATION

32. **Kachalova S.M.**
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PROSPECTS OF DEVELOPMENT OF ELECTRONIC (DISTANCE) LEARNING STUDENTS

33. **Khristoforova I.V.**
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INTERACTION OF THE DESIGN DEPARTMENT OF MOSCOW REGION UNIVERSITY OF TECHNOLOGY WITH FOREIGN PARTNERS: EXPERIENCE OF SCIENTIFIC, PUBLICATION AND EDUCATIONAL ACTIVITY

34. **Kirilina T.Yu.**
University of Technology, Korolev, Russia
THE ROLE OF EDUCATION AND SCIENCE IN THE GLOBALIZED WORLD

35. **Kogteva U.A.**
University of Technology, Korolev, Russia
COLLABORATION BETWEEN TEACHERS AND STUDENTS IN THE MODERN EDUCATIONAL MEDIASPACE IN SOCIOLOGICAL DIMENSION

36. **Korolev K.Yu.**
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INTERNATIONALIZATION OF HIGHER EDUCATION BY MEANS OF INTERNATIONAL COOPERATION: PENZA STATE UNIVERSITY EXPERIENCE

37. **Lazebnaya E.M.**
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MONITORING OF THE MARKET OF EDUCATIONAL SERVICES: PRESCHOOL EDUCATION

38. **Lebedeva E.N.**
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PROBLEMS OF THE DEVELOPMENT OF INTELLECTUAL CAPITAL OF THE REPUBLIC OF BELARUS IN THE CONTEXT OF WORLD INTEGRATION PROCESSES

39. **Menshikova M.A., Butko G.P.**
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IMPROVEMENT OF TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT OF ENTERPRISES IN THE REGION IN TERMS OF RISK MANAGEMENT

40. **Mucea B.-N., Abrashkin M.S.**
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THE BENEFITS OF DUAL EDUCATION IN TECHNLOGICAL HIGH SCHOOLS

41. **Nagornaya O.A.**
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INTRODUCTION OF CORPORATE INFORMATION SYSTEMS AS A FACTOR OF IMPROVING THE MANAGEMENT SYSTEM OF THE UNIVERSITY

42. **Pavlic T., Jurković I., Jusić E.**
Bielovar University of Applied Sciences, Bielovar, Croatia
A MULTIDISCIPLINARY APPROACH TO TEACHING COGNITIVE ROBOTICS AND ENGLISH TERMINOLOGY BY INVOLVING THE ITERNATIONAL ASPECTS IN HIGHER EDUCATION

43. **Pavlic T., Jurković I., Kraljić L.**
Bielovar University of Applied Sciences, Bielovar, Croatia
AN INTEGRATED APPROACH TO CONNECTING UNIVERSITY RESEARCH AND MANUFACTURING COMPANIES IN THE FIELD OF COGNITIVE ROBOTICS AND ENGLISH FOR SPECIFIC PURPOSES

44. **Piunova Ya.V.**
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IMPROVEMENT OF TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT ENTERPRISES IN THE REGION WITHIN A RISK MANAGEMENT

45. **Romanov P.S.**
University of Technology, Korolev, Russia
METHODOLOGICAL CONCEPT OF NASA WORK AT THE HIGH-SCHOOL LEVEL STUDENTS: CASE – STUDY OF USA AEROSPACE INDUSTRY

46. **Samoshkina M.V.**
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ASSESSMENT OF THE FINANCIAL LITERACY LEVEL OF WORLD POPULATIONS

47. **Shaizhanov, M.K.**
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ECONOMIC EFFECT OF A SINGLE FINANCIAL MARKET OF THE EURASIAN ECONOMIC UNION ON THE REPUBLIC OF KAZAKHSTAN

48. **Shamsiev Z.Z.**
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STRENGTHENING UNIVERSITY SCIENCE BY ACTIVATING STUDENT YOUTH

49. **Sireischikova O.A.,Arkhipova T.N.**
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ADAPTING STUDENTS OF THE FIRST COURSE DESIGNERS TO THE CONDITIONS OF THE UNIVERSITY

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CREATING A TEACHING MODEL OF HISTORY FOR INTERNATIONAL STUDENTS IN TECHNICAL UNIVERSITY FOR THE MIXED GROUPS AS A FACTOR TO IMPROVE THE EDUCATION QUALITY

51. **Solomonov V.A., Fomina E.A.**
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MOTIVATION FOR EDUCATIONAL ACTIVITY OF FOREIGN STUDENTS IN THE CONTEXT OF EDUCATION QUALITY IMPROVEMENT

52. **Solopanova O.Yu., Ashurbekov R.Kh., Shukurova S.M., Muhammad Olim H.U., Soliev A.**
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COMPARATIVE ANALYSIS OF SIMILARITIES AND DIFFERENCES OF NATIONAL CULTURAL VALUES OF STUDENTS OF THE BACHELOR OF SCIENCE DEGREE PROGRAM IN “AIR TRAFFIC MANAGEMENT”

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TO THE QUESTION OF THE FORMATION OF THE POLYCULTURAL COMPETENCE OF THE FUTURE TEACHER IN THE CLASSROOM PSYCHOLOGICAL AND PEDAGOGICAL CYCLE

54. **Tolordava Zh.**
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INTERNATIONALISATION OF EDUCATION AND THE KNOWLEDGE ECONOMY

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ASSESSMENT OF INVESTMENT ATTRACTIVENESS OF EXPEDIENCY OF INTRODUCTION OF THE COMPLEX OF PATENT TECHNICAL SOLUTIONS OF GENERATION OF HEAT AND HEATCONSUMPTION IN MUNICIPAL PROGRAMS OF RENOVATION IN THE RUSSIAN FEDERATION

56. **Urazhok T.V.**
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PECULARITIES OF POSTGRADUATE TRAINING SYSTEM IN RUSSIA AND ABROAD

57. **Useinova S.R.**
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EXTERNAL DEBT OF RUSSIA AND THE TREND OF ITS SERVICE

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SIMULATION PROFIT OF FOOD COMMODITIES RETAILER

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IMPLEMENTATION OF DISTANT EDUCATION TECHNOLOGIES IN UNIVERSITY EDUCATIONAL PROCESS

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CONCEPTUAL PROVISIONS OF DEVELOPMENT OF INTERNATIONAL COOPERATION OF HIGHER EDUCATIONAL INSTITUTIONS IN THE FIELD OF SCIENTIFIC RESEARCHES

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DIGITAL TECHNOLOGY AS INTEGRATION FACTOR OF THE EAEU countries PROCUREMENT

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