



UniTrento ICM projects - Progress and kick-off meeting



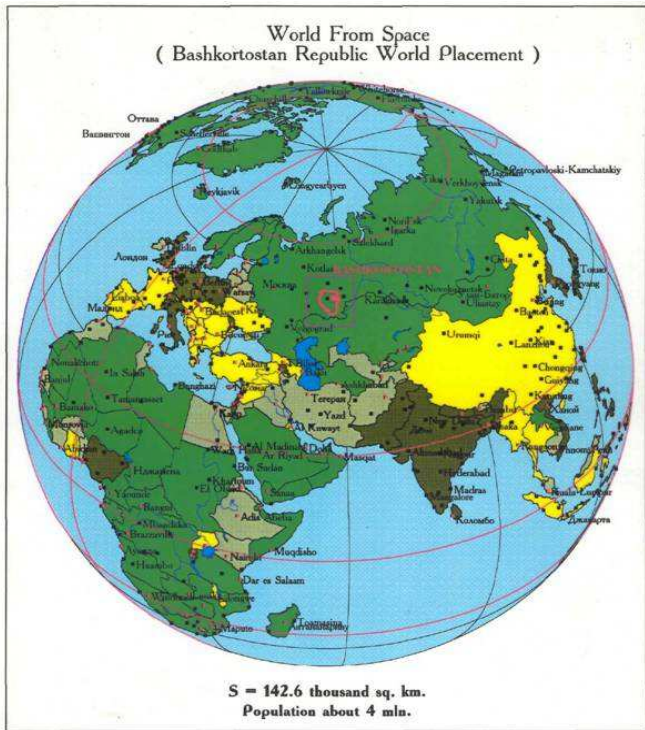
Ufa State Aviation Technical University - UniTrento Cooperation development

Prof. Nafisa Yusupova
Faculty of Computer science and Robotics
Dean



Ufa, Russia
October 14 - 15, 2020

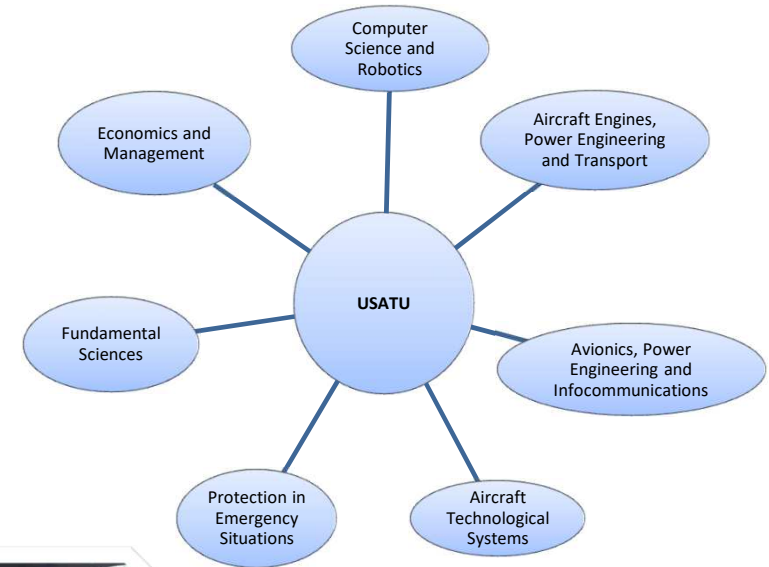
Ufa State Aviation Technical University



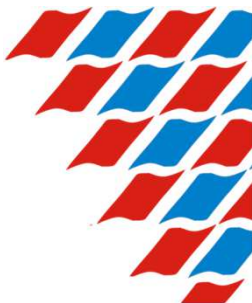
Number of students:

- USATU – 13 035 (st.)
- Branch in Ishimbaj – 434 (st.)
- Branch in Kumertau – 456 (st.)

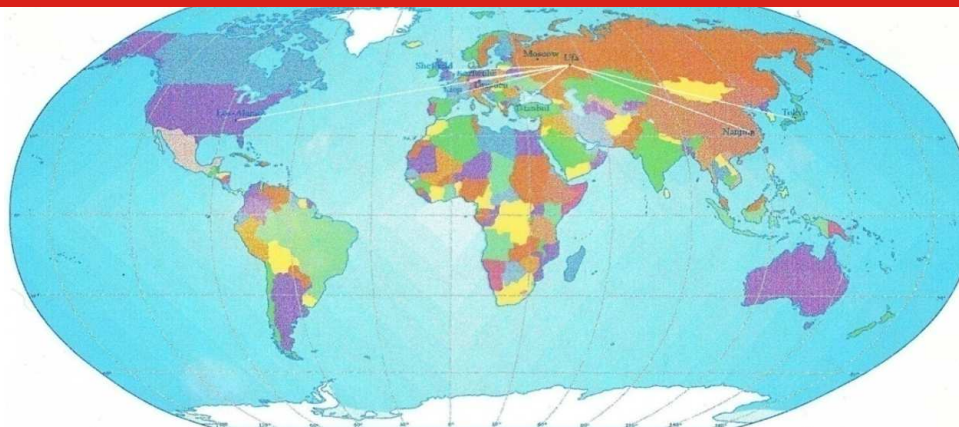
More than 1000 lecturers work at 66 chairs, among them about:
 – about 180 Doctors of Sciences;
 – about 600 PhDs;
 – more than 80 corresponding members, members of the Russian Academy of Sciences and Bashkir Academy of Sciences, different sectoral, state and public academies in Russia and foreign countries.



Ufa, Russia October 14 - 15, 2020



INTERNATIONAL COOPERATION AND SCIENTIFIC PROJECTS



The University has agreements on mutual cooperation with:

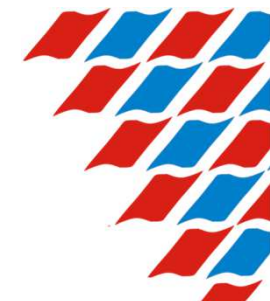
- Los-Angeles center of material science (USA)
- *Karlsruhe Institute of Technology (Germany)*
- Meiji University (Japan)
- University of Trento (Italy)
- La Sapienza University of Rome (Italy)
- Universidade Nova de Lisboa (Portugal)
- *Ruhr Universität Bochum (Germany)*
- *The International Institute for Applied Systems Analysis (IIASA), Austria*
- Nanjing University of Aeronautics and Astronautics (China)
- Sheffield Hannam University (UK)
- *Technical University of Dresden (Germany)*
- *Bonn-Rhein-Sieg University of Applied Science (Germany)*
- *HTWK Leipzig (Germany)*
- University of Wroclaw (Poland)
- Technische Universität Wien (Austria)
- Wroclaw University of Technology (Poland)

International scientific-technical projects:

- "Aviacosmos"
- "Nanocrystals"

Participants of the projects:

SATUU
Universities of Germany, USA, France, China

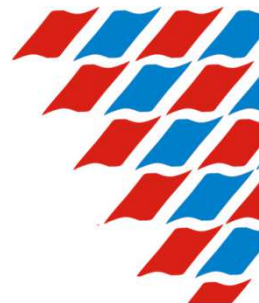


WORKSHOPS ACTIVITY

- ❖ **International Workshop "Computer Science and Information Technologies"**
 2000, 2001, 2003, 2005, 2007 – Ufa, Yangantau, Assy, Krasnousolsk, Russia; 2002, 2009 – Patras, Crete, Greece; 2004 – Budapest, Hungary; 2006, 2011 – Karlsruhe, Garmisch-Partenkirchen, Germany; 2008 – Antalya, Turkey; 2010 – Moscow – Saint-Petersburg, Russia ; 2012 – Hamburg – Norwegian Fjords; 2013 – Vienna-Budapest-Bratislava; 2014 – Sheffield, England; 2015 – Rome, Italy; 2016 – Prague-Kunovice, Czech Republic; 2017 – Baden-Baden, Germany; 2018 – Varna, Bulgaria; 2019 – Vienna, Austria
- ❖ **"Engineering and Information Sciences: New Methods and Solutions for Emerging Technologies"**, 2010 - Karlsruhe, Germany
- ❖ **International workshop "Innovation Information Technologies: Theory and Practice"**, 2010 - Dresden, Germany
- ❖ **International Workshop for Young Scientists "Intelligent Technologies for Information Processing and Management"**, 2012 - Ufa, Russia
- ❖ **International Conference "Intelligent Technologies for Information Processing and Management (ITIPM)"**, 2014, 2015 – Ufa, Russia
- ❖ **International workshop "Technologies of digital processing and data storage"**, 2015 – Ufa, Russia
- ❖ **International Summer School "Neuroinformatics"**, 2012 - Ufa, Russia
- ❖ **International Conference "Information Technologies for Intelligent Decision Making Support"** 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 – Ufa, Russia

Traditionally, representatives of UniTrento were the participants of the conference: Prof. F. Casati, Prof. I. Trevisan, Dr. A. Molinari

- **Italian-Russian seminar "Information and Innovation Technologies: Theory and Practice" May 09 – 16, 2012, Trento, Italy**



The geography of the participants ITIDS2020

Ufa, Russia, October 6 – 9, 2020

Countries: Russia, Germany, Italy, Austria (4)

Cities of Russia: Ufa, Moscow, Stavropol, Khanty-Mansiysk, St. Petersburg, Vladivostok, Orenburg, Samara, Izhevsk, Tyumen, Astrakhan, Chelyabinsk, Surgut, Krasnoobsk, Voronezh, Sochi, Volgograd (17)

Partners: Russian Foundation for Basic Research (RFBR), North-Caucasus Federal University, Ugra Research Institute of Information Technologies

Partners in the Republic of Bashkortostan: The Ministry RB for Informatization, Ltd «INTRO-GIS», OJSC Ufa Research and Production Enterprise «Molniya», OJSC Research and Production Enterprise «Poligon», Ltd «ITSK», Ltd «IT ENIGMA UFA»



Proceedings

Submitted 133
Plenary reports 10
Session reports 123

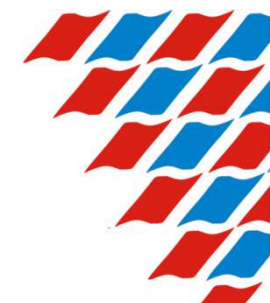
Accepted
1 vol. 40
2 vol. 42

Rejected 15

Atlantis-Press (WoS)

Submitted 112
Accepted 80
Rejected 32

All reports: 133
All participants: 242





Уфимский государственный
авиационный технический
университет

VIII All-Russian Scientific Conference
"Information technologies of intelligent decision support" ITIDS'2020, Ufa, Russia, October 6 – 9, 2020

06.10.2020, 14:30 – 16:00 Plenary session 1
"Data processing technologies"

ABOUT DEVELOPMENT TRENDS IN THE INDUSTRY OF INFORMATION TECHNOLOGIES IN THE SUBJECTS OF THE RUSSIAN FEDERATION RELATED TO THE PERIOD OF EFFECT OF MEASURES TO COMBAT THE SPREAD OF NEW CORONAVIRUS INFECTION

Slepov D.S.

(Ministry of Digital Development of Public Administration of the Bashkortostan Republic)

RESEARCHES IN AI AT THE UNIVERSITY OF TRENTO

Massacci F.

(University of Trento, Italy, University of Trento, Italy)

ARTIFICIAL INTELLIGENCE IN SAP INTELLIGENT ENTERPRISE

Gonchar L.

(SAP company, Germany, SAP SE, Germany)

APPLICATION OF INTELLECTUAL ALGORITHMS FOR SOLVING PROBLEMS IN THE OIL INDUSTRY

Makoveev S.G.

(LLC "Gazpromneft-Digital Solutions")

INFORMATION TECHNOLOGIES AND THEIR USAGE IN SOCIAL MEDIA

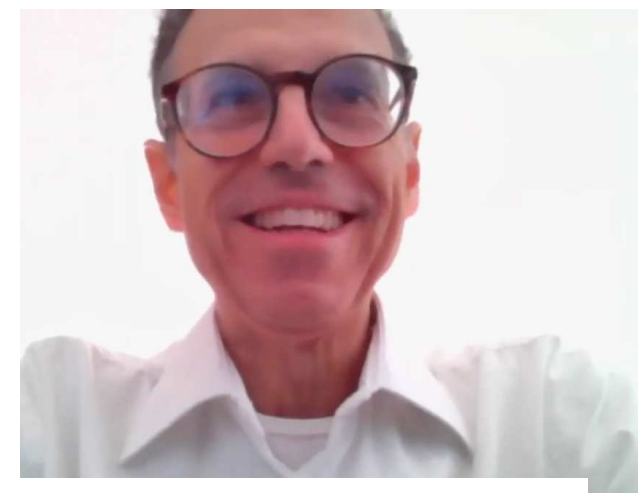
Komendantova N.

(International Institute for Applied Systems Analysis, Laxenburg, Austria)

VULN4REAL: METHODOLOGY FOR COUNTING ACTUALLY VULNERABLE DEPENDENCIES

Pashchenko I.

(University of Trento, Italy, University of Trento, Italy)



**Vuln4Real: A Methodology for Counting
Actually Vulnerable Dependencies**

IVAN PASHCHENKO¹, FABIO MASSACCI^{1,3}

HENRIK PLATE², SERENA ELISA PONTA², ANTONINO SABETTA²

¹UNIVERSITY OF TRENTO, ITALY

²SAP SECURITY RESEARCH, FRANCE

³VRIJE UNIVERSITEIT AMSTERDAM



OUR PARTNERS at the UniTrento



*Prof. Italo Trevisan
Department of Economics
and Management*



*Nafisa Yusupova
Prof. Dr. USATU*



*Prof. Fabio Casati
Department of Engineering
and Information Science*



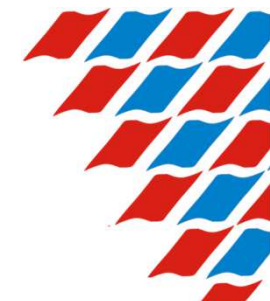
*Prof. Fabio Massacci
Department of Engineering
and Information Science*



*Diana Bogdanova
Dr. USATU*



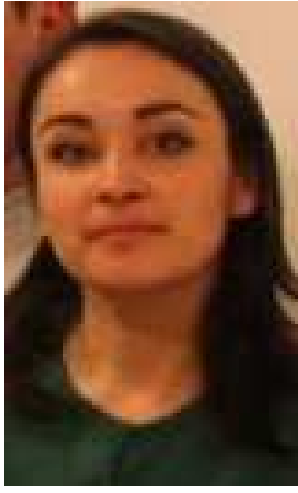
*Andrea Molinary
Department of Industrial
Engineering*





UNIVERSITY
OF TRENTO - Italy

Scholarship holders from USATU at the University of Trento



Ufa, Russia October 14 - 15, 2020

SCHOLARSHIP STATISTICS

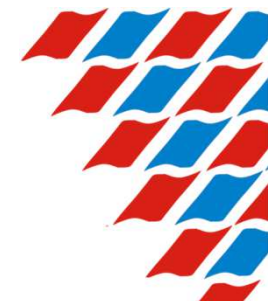
2009	Diploma thesis	Ruslan Iskhakov
2011	PhD student	Roman Chirikov
		Pavel Kucherbaev
	Diploma thesis	Svetlana Kovaleva
	Student	Aygul Nazmutdinova
	Researcher	Vitaly Kotelnikov
2013	Student	Ivan Pashtenko
	Researchers	Guzel Abrahamnova
		Vadim Kotov
		Diana Bogdanova
2015	Researchers	Anastasia Gorshechnikova
		Ksenia Netsvetaeva
		Elvina Gindullina
		Maria Chumakova
2016	Researcher	Bulatova Elena
2020	Students	Ilnur Gilmetdinov
		Margarita Mansurova



*Ilnur
Gilmetdinov*



*Margarita
Mansurova*





*PhD defense by
Ivan Pashchenko, 2019*



*USATU-UniTrento Double degree PhD program
PhD defense by Roman Chirikov, 2014*

COOPERATION AGREEMENT Between

Ufa State Aviation Technical University (Russia) The Department of Telecommunication Systems K Marx Str., 12 450000 Ufa, Russia	and	The University of Trento (Italy) The Department of Information Engineering and Computer Science Via Sommarive, 14 38123 Povo (Trento) Italy
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Hereinafter called «USATU»

Hereinafter called «UNITN»

WHEREAS the common goal is to strengthen the existing cooperative links between the two institutions;

WHEREAS preliminary discussions that were held between professors, r scientists of both parties;

USATU and UNITN HEREBY AGREE TO THE FOLLOWING:

Article 1 (Objectives)

The purpose of the present agreement is to define the general conditions rel and academic cooperation between USATU and UNITN in the field of ICT.

Article 2 (Activities)

The objectives indicated in art. 1 will be achieved by means of the exch members and students for educational and research purposes.

The two institutions in particular agree to:

1. exchange doctoral and postgraduate students to study at the partn engage in collaborative teaching projects; and to foster dissertation proj encourage the development of funded compatible research projects i and, where possible, graduate students;
2. exchange staff publication (books) and article offprints as well as workin
3. initiate institutional developments of bi-nationally supervised doctoral the de these" starting with arrangements to facilitate the joint scientific an supervision of a doctoral thesis. Specific agreement for each candi concluded according to the modalities specified in the attached form i Cooperation Agreement);
4. publicise the opportunity to receive advanced training for graduate stu (Italy) or Ufa (Russia).

Article 3 (Financial matters)

The present Agreement implies no financial engagement from either party. Both parties agree that the financial arrangements necessary to implement this, be negotiated for each specific activity and will depend upon the availability of fu

Article 4 (Duration of the agreement)

This agreement having received the approval of the proper administrative aut effective for three (3) years starting on the date of the last signature. It may be extended by mutual written agreement of the parties involved and ce by either one of the two parties with a written notification six months in anticipated termination.

Should the agreement be terminated, the responsibilities of either party to the agreement to provide benefits to participants on exchanges begin prior to its termination may extend beyond the duration of the agreement.
This agreement is written in English and issued in four (4) original copies.

Article 5 (modification or revocation of the agreement)
All modification or revocation of the present cooperation agreement should be address in writing to:

For USATU:

Office of International Relations
K Marx Str. 12
450000 UFA
RUSSIA
Tel: +7-347-2729988
Fax: +7-347-2729009
e-mail: usaf@usatu@mail.ru

For UNITN:

Office of International Relations
Via Sommarive, 14
38100 TRENTO
ITALY
Tel: ++390461883241
Fax: ++390461882917
e-mail: international@unitn.it

RECTOR of
UFA STATE AVIATION TECHNICAL
UNIVERSITY


RECTOR of the
UNIVERSITY OF TRENTO

Prof. Must Guzirov

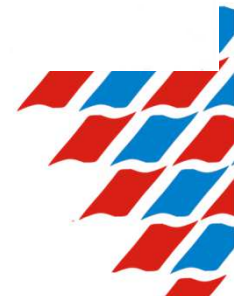
Ufa, on ... 04.04.2014...

Prof. Danilo Pujis

Trento, on ... 20 APR 2012

Prof. Albert Sultakov
Head of the Department of
Telecommunication Systems


Prof. Danilo Pujis
Head of the Department of Information
Engineering and Computer Systems

USATU-UniTrento DOUBLE DEGREE MASTER PROGRAM

Course Name UNITN	Category	CFU	Year	Semestr	UNITN study programs			USATU Information Security program					
					ComputerScience	Security&Privacy		Course Name USATU	Category	CFU	Year	Semest	
Non-IT courses													
145518 - ICT Innovation – Product Design and Development	INF/01	6	1	2			X		Control Technology business communications and business activities	SECS-P/10	2	1	1
145455 - ICT Innovation	INF/01	9	1	2			X		Theoretical foundations of management	SECS-P/08	4	1	2
145761 - Innovation and Business in ICT	SECS-P/10	6	1	1		X			Philosophy	M-FIL/02	3	1	1
145936 - Innovation and Entrepreneurship Basic	SECS-P/10	6	1	1			X		Psychology and pedagogy	M-PSI/04	2	1	2
145288 - Business Development Laboratory	SECS-P/08	9	1	2	54		X		Game theory and operations research	MAT/09	4	1	2
145623 - Innovation and Entrepreneurship Studies in ICT	INF/01	6	2	1			X						
145459 – Participatory Design	ING-INF/05	6	1	1			X						
145323 - Privacy and Intellectual Property Rights	ING-INF/05	6	1 or 2	1		X	X						

Digital signal processing, electronics, etc.													
145614 - Multimedia Data Security	ING-INF/03	6	1 or 2	1		X	X		Biometric security systems	ING-INF/05	4	1	1
145611 - Computer Vision and Multimedia Analysis				2					Methods of digital image processing			1	1
145299 - Language Understanding				2	24				Computer systems and specifications			1	1
145447 – Advanced computer architectures				2									

AGREEMENT ON DOUBLE DEGREE PROGRAM BETWEEN UNIVERSITY OF TRENTO AND UFA STATE AVIATION TECHNICAL UNIVERSITY

Federal State Budgetary Educational Institution of Higher Education «Ufa State Aviation Technical University» (hereinafter named as USATU), represented by Rector, Professor Nikolay Kriouin and University of Trento (hereinafter named as UniTrento), represented by Rector, Professor Paolo Collini, referred to as Parties, agree as follows:

1. Subject of the agreement

1.1. The subject of the given agreement is realization of Double Degree Program and development of cooperation and exchange program between students and academic staff of the faculty of information engineering and informatics in UniTrento and faculty of informatics and robotics in USATU.

1.2. The aim of the given agreement is development of education, realization of individual educational path, stimulation of financial and grant support, cooperation arrangement of academic staff.

1.3. USATU and UniTrento, with intent to choose participants for Double Degree Program organize bilateral committee, tasks and members of which are determined by additional agreement of the Parties.

1.4. Meeting of bilateral committee are held once a year via conference-call or video-conference. Decisions are made unanimously.

2. Realization of double degree program

2.1. Requirements for enrollment, academic program, academic plan and academic calendar, payment for studies, financial support as well as the way of submission graduation thesis and dissertation are defined by signing separate agreements by the Parties.

3. Rights and obligations of the students, participating in the program

3.1. Each student, participating in the program, must follow the rules, being in the Host university.

3.2. Both Universities will assure that the students have equal access to all facilities offered to regular students of the Host University, such as the use of computers, access to the library, obtaining of a student ID card, etc.

3.3. The Host Party will appoint a tutor for each student, responsibilities of which come to:

- Provision of assistance in adaptation
- Introduction to peculiarities of the academic process in the University
- Notification from the Home Party on students record

4. Procedure of amendment and termination of the Agreement

4.1. Conditions of the given agreement may be amended upon mutual agreement of the parties or otherwise on the grounds, foreseen by the legislation of the Russian Federation.

4.2. In the event of changing addresses and bank details, Parties are obliged to send notification during 30 days.

4.3. The given agreement may be terminated upon mutual agreement of the Parties or otherwise on the grounds, foreseen by the legislation of the Russian Federation.

4.4. The given agreement does not impose financial obligations on the Parties.

4.5. The given agreement stays in force for 5 years from the moment of signing.

4.6. On a unilateral basis, each university can bring the agreement to an early termination upon condition that the notification will be sent not less than two months before assumed date of termination.

4.7. Early termination of the agreement does not lead to exclusion of students from the realized program.

4.8. The given agreement is written in English in 4 copies.

5. Anti-corruption clause

5.1. In the performance of duties upon the Agreement, Parties, their staff, representatives and affiliated persons do not pay, do not suggest to pay and do not permit to pay out money or other values to any person in order to influence their actions or decisions aiming at getting unfair preferences or with other unfair aims.

Also Parties, their staff, representatives and affiliated persons in the course of the agreement do not carry out actions, classified by the Russian legislation as bribe solicitation or an item of commercial bribery, commercial bribery, mediation in commercial solicitation, giving or taking bribe, mediation in bribery, abuse of power, illegal allowance on behalf of legal entity.

5.2. In case if Party has suspicion that p. 5.1. of the Agreement has been violated or may be violated, the Party is obliged to send written notification to another Party. In the notification it is necessary to point out facts and (or) provide materials, proving or affording ground to suppose that violation has occurred or may occur.

After getting the notification, Party to which the notification was sent, during five calendar days send an answer informing that violation has not occurred or will not occur.

6. Other conditions

6.1. Parties agree that in case of getting results of intellectual activity during realization of the given Agreement, Party, that was creator of result of intellectual activity, has all ownership rights.

6.2. Fulfillment of obligations is ceased from the moment of sending notification, given in p. 5.2. until getting answer.

6.3. If the fact of violation by the Party has been proved, given in the p. 5.1. or answer to notification has not been received, Party is within its rights to turn down performance of the agreement unilaterally, having sent written notification on termination. Party, upon initiative of which Agreement was terminated, is within its rights to seek damages, occurred in the result of Agreement termination.

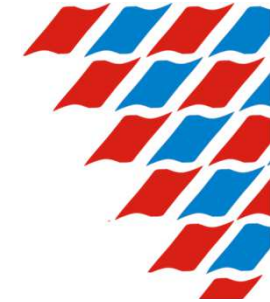
Bank details

University of Trento
Università degli Studi di Trento
via Calepina, 14 - I-38122 Trento
P.IVA C.F. 00340520220
tel. +39 0461 281111
steneo@pes.unim.it
steneo@unitn.it

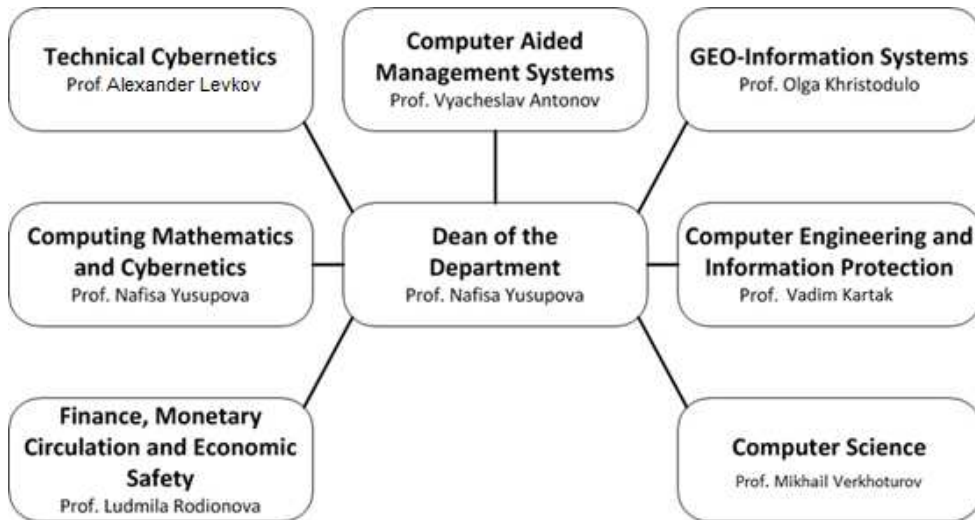
Federal State Budgetary Educational Institution of Higher Education «Ufa State Aviation Technical University»
Legal address: Russia, 450008, Republic of Bashkortostan, Ufa, K. Marx St., 12
OKVED 85.22, OKPO 02069438,
Account details: TIN 0274023747, KPP 027401001,
FTD in republic of Bashkortostan (USATU), business account 20016199940
Settlement account 4050181050002000002
Branch bank in republic of Bashkortostan BIC 048073001

Date: _____
University of Trento
Rector
Professor Paolo Collini
Chairman of information engineering and informatics department
Professor Paolo Giorgini

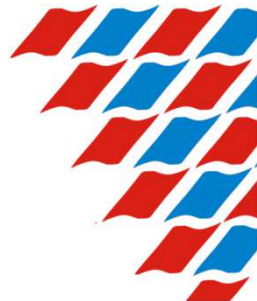
Date: _____
USATU
Rector
Professor Nikolay Kriouin
Dean of faculty of engineering and informatics
Nafisa Yusupova



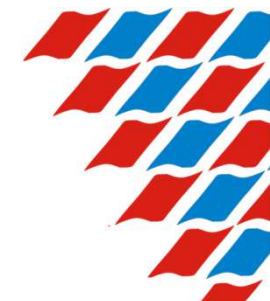
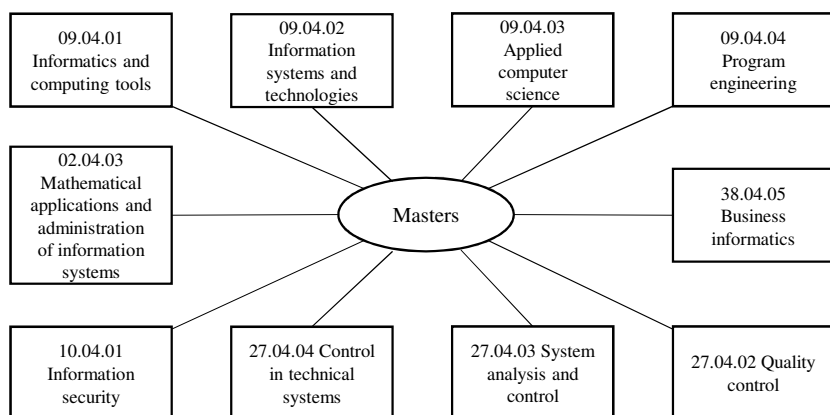
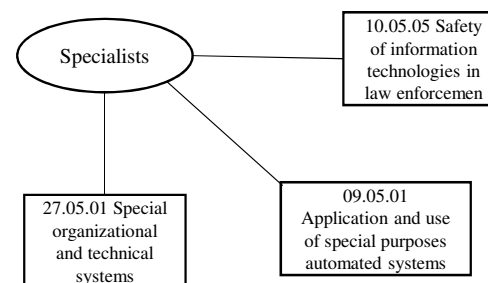
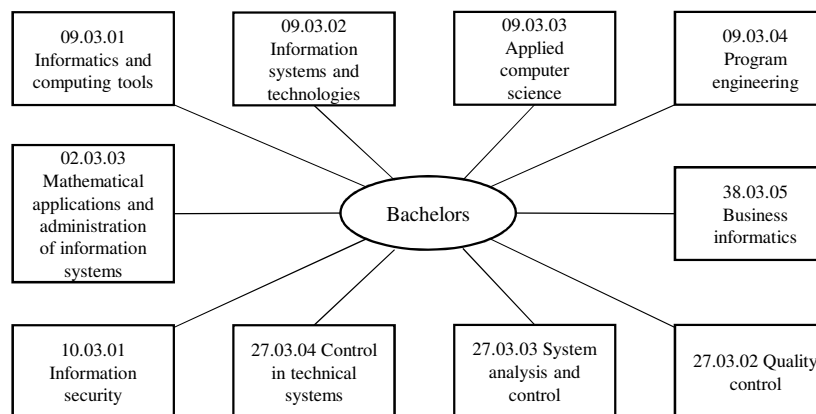
DEPARTMENT OF COMPUTER SCIENCE AND ROBOTICS



Number of employees	
Total at the faculty	370 (professorial teaching staff 289)
	40 Doctor of Science
	182 Candidate of Science
Average age of workers	44 years
Number of students	
Full-time department	3287
Extramural department	774
Total number of students	4061
Average age of workers	44 years
Number of master student	491
Number of post-graduate student	55



EDUCATIONAL PROGRAMS AT THE DEPARTMENT



Development of cooperation in the future:

- Implement a double degree master's program in «Information Security» and «Software Engineering»
- Improve the curriculum for the master's degree in Capacity building in the field of Higher Education program
- Carry out research within the Jean Monnet program
- Expand relationships for research in business informatics and economics

**MASTER
DOUBLE
DEGREE**



Erasmus+



Erasmus+



Ufa, Russia October 14 - 15, 2020



УГАТУ

Уфимский государственный
авиационный технический
университет



Thanks for attention!

