# 1ST INTERNATIONAL CONFERENCE ON TECHNOLOGY ENHANCED LEARNING IN HIGHER EDUCATION

CONFERENCE PROGRAMM



Advancing Technology for Humanity





June, 24-25 2021 | Russia, Lipetsk

# **TELE2021**

### **TELE2021 CONFERENCE**

The pandemic has starkly highlighted the fragility of education systems, even those considered relatively stable. The 1st International Conference on Technology Enhanced Learning in Higher Education (TELE2021) focuses on the wide range of topics related to IT in education, workplace and industry-based learning, open, flexible and distance learning. We hope that the conference will be a space to join engineers, teachers and researchers to share their experience and report the best practices.

The conference is dedicated to two meaningful anniversaries. In 2021 Lipetsk State Technical University celebrates 65. Established in 1956 as the Evening faculty of Tula Mechanical Institute, the first and only technical university in the region it has now more than 40 departments with 7000 students.

2021 is the 85th anniversary year of the birth of Yaroslav Andreevich Vagramenko (01.01.1936–26.11.2017), who is the founder of the Academy of Education Digitalization. He is the honored scientist of the Russian Federation made a significant contribution to the development of the rocket and space industry, informatization of education, culture.

#### TELE2021 TOPICS

Scientific program includes topics of interest that consist of, but are not limited to:

I. <u>Computing & IT Education</u>. Smart classroom, virtual and remote labs, robotics in educational sphere; Innovative learning spaces; IEEE Standards in the classroom

II. <u>Workplace and Industry-Based Learning</u>. *Effective learning activities, innovations, methodologies and practice; Adult, lifelong learning and professional development; Interdisciplinary, multidisciplinary and transdisciplinary learning experiences* 

III. <u>Open, Flexible & Distance Learning</u>. Online/E-learning/M-learning spaces; Infrastructure and educational technologies; Open educational resources, courseware

1

#### **GENERAL CO-CHAIRS**

Pavel SARAEV (Russia)

Alexander RUSAKOV (Russia)

Vladimir CHUBARIKOV (Russia)

#### TECHNICAL PROGRAM CO-CHAIRS

Anatoly POGODAEV (Russia)Sava GROZDEV (Bulgaria)Stanimir VALTCHEV (Portugal)Viktor KAZACHENOK (Belarus)Ersan KABALCI (Turkey)Natalia BROVKA (Belarus)Maria Cristina RECCHIONI (Italy)Stepan BERIL (Russia)Vladimir MITYUSHEV (Poland)Semen BLYUMIN (Russia)

Sergey CHERNYSHENKO (Russia) Alexander GALKIN (Russia) Sergey GORLOV (Russia) Mikhail KARPENKO (Russia) Vladimir KISELEV (Russia) Alexander KOROTKOV (Russia) Yuri KUDINOV (Russia) Sergey KUZENKOV (Russia) Valery KUZOVLEV (Russia) Natalia KUZOVLEVA (Russia) Dmitry KURAKIN (Russia)

#### LOCAL ORGANIZING COMMITTEE

Natalia PACHINA Alexander GALKIN Olga MASLOVA Anton SYSOEV Vladimir ISTOMIN Elena KHABIBULLINA Eugene DUVANOV Svetlana ZHIKHOREVA Monika DABAS

Alexei TYURIN

Alexander MARTYNOV (Russia) Viktor MESHERYAKOV (Russia) Iskandar MUHAMEDZYANOV (Russia) Maxim NOVAK (Russia) Alexandra OVCHINNIKOVA (Russia) Irena ROBERT (Russia) Vera RUSAKOVA (Russia) Vilyam SARYAN (Russia) Natalia SOFRONOVA (Russia) Anton SYSOEV (Russia) Georgij YALAMOV (Russia)

# Thursday, June, 24 2021

Click to join Zoom Conference ID: 916 4589 9986

	Opening Ceremony				
	Pavel SARAEV, D.Sc., Prof.				
	Russia, Lipetsk, Lipetsk State Technical University				
10:00 - 10:30	Anatoly YAKUTIN				
	Russia, Lipetsk, Vice Governor of Lipetsk Region				
(MSK, UTC+3)	Alexander RUSAKOV, D.Sc., Prof.				
	Russia, Moscow, MIREA - Russian Technological University				
	Vladimir CHUBARIKOV, D.Sc., Prof.				
	Russia, Moscow, Lomonosov Moscow State University				
	Plenary Session Chair Prof. Sergey CHERNYSHENKO				
	Anatoly POGODAEV, D.Sc., Prof.				
	Russia, Lipetsk, Lipetsk State Technical University				
	Regional Human Resources Capacity Management System				
	Radoslav ŠTEFANČÍK, Prof. and Eva STRADIOTOVA, Prof.				
	University of Economics in Bratislava				
40.20 42.00	Obstacles and Limitations in the Use of Modern Technologies in Higher				
10:30-12:00	Education During the Covid-19 Pandemic in Slovakia				
(MSK, UTC+3)	Olga KIRILLOVA, Cand.Sc., Prof.				
	Russia, Moscow, Association of Science Editors and Publishers				
	On the Prospects of Increasing Publication Activity in the Direction of				
	Informatization of Education				
	Sergey CHERNYSHENKO, D.Sc., Prof.				
	Russia, Moscow, State University of Management Nature Management Models as a Tool for Forming Optimisation Thinking of				
	Students				
12:00 - 13:00					
(MSK, UTC+3)	Coffee Break				
13:00 - 15:00					
(MSK, UTC+3)	Section Sessions				
15:00 - 15:15					
(MSK, UTC+3)	Coffee Break				
15:15 - 18:00	Caption Consists				
(MSK, UTC+3)	Section Sessions				
19:00 - 22:00	Dinner				
(MSK, UTC+3)					

3

# <u>Click to join Zoom</u>

Conference ID: 916 4589 9986

10:00 - 13:00 (MSK, UTC+3)	Section Sessions	
13:00 - 13:15	Caffaa Durah	
(MSK, UTC+3)	Coffee Break	
13:20 - 13:45	Closing Ceremony	
(MSK, UTC+3)		
14:00 - 20:00	Trip to an old city Yelets	
(MSK, UTC+3)		

# DETAILED PROGRAM

# Thursday, June, 24 2021 (Moscow time, UTC+3)

Click to join Zoom

Conference ID: 916 4589 9986

Please indicate the session you prefer to join

Session C1 Computing & I (13:00-18:00		Chair	Associate Prof. Inna Muzyleva	ArtID		
13:00-13:15	LANGUAGE TE	ON SOME POSSIBILITIES OF USING DIGITAL TECHNOLOGY IN FOREIGN LANGUAGE TEACHING AT HIGHER EDUCATION INSTITUTIONS Natalia Gerova, Vladimir Paskanny and Vasilina Kastornova				
13.15-13.30	MARITIME CO	MINIATURE POWER DIVIDER ON ARTIFICIAL TRANSMISSION LINES IN MODERN MARITIME COMMUNICATIONS Khiem Nguyen Khac and Hung Luu Quang				
13.30-13.45		INTERDISCIPLINARY L	UCATION: DIGITALIZATION AS THE BASIS FOR EARNING	26		
13.45-14.00		IN TEACHING NETW nrub and Alexander V	ORK-BASED PLANNING	54		
14.00-14.15	OPPORTUNITI SOCIETY		ATION FOR SUSTAINABLE DEVELOPMENT OF	30		
14.15-14.30	INFORMATIZA DISCIPLINES B	TION AS A CONDITIONY STUDENTS OF A HI	N FOR THE DEVELOPMENT OF ACADEMIC GHER EDUCATIONAL INSTITUTION va, Inna Muzyleva and Liubov Iazykova	53		
14.30-14.45	ON THE DEVE TEACHERS OF OF SOCIETY	LOPMENT OF THE CC	NCEPT OF INNOVATIVE TRAINING OF FUTURE E CONDITIONS OF DIGITAL TRANSFORMATION	35		
14.45-15.00	ANALYSIS AND THE REGION Irina Kashirina	D FORECASTING OF T a, Yulia Bondarenko a	HE MARKET OF EDUCATIONAL SERVICES OF	39		
15.15-15.30	TRAINING OF	DOCTORS	DLOGIES AND INFORMATION SECURITY IN THE	40		
15.30-15.45		CY AND MEDIA EDUC onak and Alexander		80		
15.45-16.00	NETWORK IN ORGANIZATI	TERACTION OF EDUC	ID COMMUNICATION TECHNOLOGIES IN THE ATIONAL INSTITUTIONS, ENTERPRISES AND ov and Igor Kozyr	46		
16.00-16.15	STUDENT RES	EARCH PROJECT: DE	VELOPMENT OF AN INTERACTIVE TERMINAL	47		

5

Session C1				
Computing & I		Chair	Associate Prof. Inna Muzyleva	ArtID
(13:00-18:00	))			
			YING PLAGIAT DOCUMENTS AT A HIGHER	
16.15-16.30	EDUCATION II	NSTITUTION: STAN	DARDIZATION ISSUES AND SPECIFICATIONS	79
	Natalia Pachir	na, Valeria Orobins	kaya, Alexander Pachin and Dmitriy Konovalov	
	ASPECTS OF U	USING INTELLIGEN	T CLOUD TECHNOLOGIES IN PROFESSIONAL	
16.30-16.45	TRAINING OF	GENERAL PRACTIT	IONERS	49
	Tatyana Gory	unova, Igor Kukhte	wich and Валентина Goryunova	
	IMPLEMENTAT	TION OF THE "CLO	UD TECHNOLOGIES IN EDUCATION"	
16.45-17.00	SUPPLEMENT	50		
	Mariya Stupin			
	RELEVANT LE	GAL ASPECTS OF S	SUSTAINABLE TECHNOLOGIES OF THE DIGITAL	
17.00-17.15	ECONOMY IN	THE EDUCATIONAL	ORGANIZATION	51
	Natalia Kyzov	leva and Anna San	noilova	
	DIGITAL TRAN	SFORMATION OF	THE MANAGEMENT OF THE POLYPROFESSIONAL	
17.15-17.30	TRAJECTORY (	OF THE CONSTITUEN	NT ENTITY OF EDUCATION	52
	Natalia Pachii	na, Irina Polyakova	a, Olga Blinnikova and Alyona Ryazhenova	

Session W1				
Workplace and Industry-		Chair	Acception Draf Anton Success	٨٠٠٠
Based Learnin	Ig	Chair	Associate Prof. Anton Sysoev	ArtID
(13:00-18:00)	)			
	NATIONAL MIS	SION ON EDUCATION	I THROUGH ICT IN INDIA: PREVAILING	
13:00-13:15	CHALLENGES AND PROMISING SOLUTIONS			1
	Anurag Jageti			
	TRENDS IN TH	IE DEVELOPMENT OF	CONTINUING EDUCATION: A REGIONAL	
13.15-13.30	ASPECT			63
			ova and Olga Zhuravleva	
13.30-13.45		ING P-VALUE THROU		6
15.50 15.45		chev and Anatoly Shr	•	0
13.45-14.00			CKCHAIN IN HIGHER EDUCATION	7
15:15 11:00		vskii and Uladzimir H	•	,
			IVE DECISION-MAKING IN THE CONTEXT OF	
14.00-14.15	PEDAGOGICAL	8		
		Mykhailo Koliada and Tetyana Bugayova		
			NG THE DISCOUNTING CASH FLOW METHOD	
14.15-14.30	Oleg Malafeye	9		
		d Tatyana Gurnovich		
			TION BETWEEN SCIENCE AND GENERAL	
14.30-14.45			ITIES OF A PUBLIC ORGANIZATION	17
			ov, Emilia Ignatieva and Yuri Grigoriev	
	•		EDUCATIONAL RESOURCES FOR BLENDED	
14.45-15.00		TOPOLOGICAL OPTIM	IZATION DISCIPLINE	21
	Oksana Nass and Svetlana Nass			
15.15-15.30			Y IN TEACHING FOREIGN LANGUAGES	22
	,	ina and Tatiana Grigo	•	
15.30-15.45			LINARY RELATIONS ON THE EXAMPLE OF	
	PROFESSIONA	23		
	PANDEMIC			
	Maria Ushakov	va, Aleksey Gabalin a	and Irina Parshina	

\_\_\_\_\_ ( 6 )

Session W1				
Workplace and Industry-		Chair	Associate Prof. Anton Sysoev	ArtID
Based Learnin	Ig	Chan	Associate Fron. Anton Syster	ALUD
(13:00-18:00)				
	SELECTION OI	F LEARNING PATH OF	SPECIALIST TEAM FOR ACTIONS IN	
15.45-16.00	EMERGENCY SITUATIONS			24
	Valery Menshikh, Elena Sereda and Alexey Kopylov			
16.00-16.15			RING FLEXIBLE ROOF CONSTRUCTIONS	25
10:00 10:15		okov, Vitalii Mikhailov		25
		DYNAMIC NEIGHBOR	HOOD MODELS INTO THE EDUCATIONAL	
16.15-16.30	PROCESS			28
		nd Vladimir Istomin		
			IRING ACTIVE LEARNING HYBRID BUILDING	
16.30-16.45	CONSTRUCT			29
		okov, Vitalii Mikhailov		
16.45-17.00	STATE STRATI	55		
	Elena Kozlova and Maxim Novak			
			SYSTEMS WITH THE INTRODUCTION OF	
17.00-17.15	DYNAMIC COE	31		
	Alexey Yartsev and Anatoly Shmyrin			
			RCH AND DEVELOPMENT OF ROOF	
17.15-17.30	CONSTRUCTIO	32		
		and Ivan Dolmatov		
			ATING THE EFFECTIVENESS OF IT-	
17.30-17.45	DEPARTMENT	33		
	Elena Matroso			
	Devyatkina			
		IVERSITY GRADUATE: MODEL FOR		
17.45-18.00	ASSESSMENT	42		
	Ekaterina Demenkova, Lyudmila Khaimina, Maksim Demenkov, Larisa Zelenina,			
	Evgenii Khaim	iin and Inga Zashikhin	a	

Session O1 Open, Flexible & Distance Learning (13:00-18:00)		Chair	Associate Prof. Vladimir Alexeev	ArtID
13:00-13:15	DYNAMICS IN PANDEMIC CC Svetlana Nesy	)VID-19	JDENT'S INDIVIDUALITY DURING THE	4
13.15-13.30	SCREEN TIME Iskandar Muki		LDREN AND ADOLESCENTS	5
13.30-13.45	COLLABORATIVE LEARNING TECHNOLOGIES FOR PROJECT WORK Alexander Galkin, Semen Blyumin, Pavel Saraev and Vladimir Pimenov			86
13.45-14.00	USE OF HYBRID LEARNING IN SCHOOL EDUCATION IN FRANCE Vasilina Kastornova and Natalia Gerova			12
14.00-14.15	EFFICIENCY O	T OF MULTIMEDIA PR F DISTANCE EDUCATI( Mirzakarimova and R		18
14.15-14.30	THE DIGITAL I Yulia M. Grish	EDUCATIONAL ENVIRO	seva, Alexander V. Gagarin, Iosif V. Spirin,	19

[ 7 ]

Session 01 Open, Flexible Learning (13:00-18:00		Chair	Associate Prof. Vladimir Alexeev	ArtID	
14.30-14.45	SOFTWARE SU DISCIPLINES IN	JPPORTS FOR REA N HIGHER EDUCAT and Artem Mirosh		20	
14.45-15.00	THE USE OF D 2020 AND WIN Denis Kovrizhi	36			
15.15-15.30	Anastasiya Zya Bondarchuk	amzina, Vladimir I	SYCHOLOGICAL ASSESSMENT Parkhomenko, Alexander Schukin and Irina	38	
15.30-15.45	DURING THE C	CORONAVIRUS PAN /kun, Larisa Kleym	THE INTRODUCTION OF DISTANCE LEARNING IDEMIC nenova, Oleg Arkhipkin, Yulia Skorobogatova and	39	
15.45-16.00	PANDEMIC: A Larisa Moskov	REGIONAL ASPECT tseva, Olga Zhura	vleva and Olga Mitrofanova	41	
16.00-16.15	TECHNOLOGIC EDUCATION IN EDUCATION IN Makhmasharif	44			
16.15-16.30	PROPORTIONA TECHNICAL SP	56			
16.30-16.45	NATURE MAN	Aleksey Popov, Olga Suslova, Aleksey Malakhov and Egor Budyukin NATURE MANAGEMENT MODELS AS A TOOL FOR FORMING OPTIMISATION THINKING OF STUDENTS Serge Chernyshenko			
16.45-17.00			E-LEARNING IN THE ARAB REGION nd Karina Sibagatullina	60	
17.00-17.15	IOT IN EFFEC	IOT IN EFFECTIVE DISTANCE LEARNING PROCESS Rodion Yakoubovsky and Vilyam SARYAN			
17.15-17.30	TRANSFORMA DIGITALIZAT Tatiana Bolshi	83			
17.30-17.45	ONLINE LEARI INTERACTIVE Natalia Kuliko	84			
17.45-18.00	TEACHING SCI ONLINE COMW Sergey Kasyar	86			

# Friday, June, 25 2021 (Moscow time, UTC+3)

#### Click to join Zoom

Conference ID: 916 4589 9986 Please indicate the session you prefer to join

Session C2 Computing & IT Education Chair Associate Prof. Maria Oreshina ArtID (10:00-13:00)DIGITAL TECHNOLOGIES FOR CONTINUING EDUCATION USING FOREIGN 10.00-10.15 | LANGUAGE LEARNING 58 Elena Rezak and Ellina Vikhtenko DEVELOPMENT OF NONHOLONOMIC WHEELED MOBILE ROBOT MODEL FOR APPLYING TIME-EFFICIENT CONTROL STRATEGY IN COMPETITIVE MOBILE 10.15-10.30 64 ROBOTICS Sergey Kondratyev, Vladimir Pikalov and Artem Muravyev AUTOMATION OF PROCEDURES OF CLASSIFICATION OF SERVICE STAFF FOR 10.30-10.45 COMPLEX MULTIFUNCTIONAL PROCESSES 68 Andrey Korneev, Tamara Lavrukhina, Tatyana Smetannikova and Andrey Strukov SEARCH FOR A NEW PARADIGM OF EDUCATION AND ARTIFICIAL INTELLIGENCE. PLACE AND ROLE OF ARTIFICIAL INTELLIGENCE IN THE NEW EDUCATION 10.45-11.00 69 SYSTEM. Igor Vostroknutov, Sergey Grigoriev and Lev Surat ON SOME RESULTS OF THE WORK OF THE INFORMATION SYSTEM FOR MONITORING RESEARCH ACTIVITIES OF A UNIVERSITY 11.00-11.15 70 Viktoria Dorofeeva and Yuriy Fedyaev MONITORING SAFETY OF SUBJECTS' ACCESS IN INFORMATION LEARNING SYSTEM 72 11.15-11.30 Inessa Vorobeva INFORMATION AND COMMUNICATION TECHNOLOGIES IN THE TRAINING OF 11.30-11.45 STUDENTS MAJORING IN APPLIED MATHEMATICS AND COMPUTER SCIENCE 73 Elena Kuznetsova, Faina Golovaneva, Tatiana Fomina and Natalia Zhbanova DIGITAL TECHNOLOGIES IN PRESCHOOL EDUCATION: RISKS AND PROSPECTS 11.45-12.00 75 Marija Lazareva and Lyudmila Zvezda EDUCATIONAL TECHNOLOGIES FOR ADVANCED TRAINING IN FPGA DESIGN 12.00-12.15 76 Ilva Tarasov AUGMENTED AND VIRTUAL REALITY TECHNOLOGIES IN EDUCATION 12.15-12.30 77 Inna Muzyleva, Liubov Iazykova, Alina Gorlach and Yakov Gorlach THE ROLE OF DIGITALIZATION IN THE PROCESS OF TEACHING A FOREIGN LANGUAGE AND IN THE FORMATION OF A FOREIGN LANGUAGE COMPETENCE 12.30-12.45 78 OF FUTURE SPECIALISTS Natalya Saraeva DEVELOPING A DYNAMIC NUMBER CARD GAME TO SUPPORT STUDENTS' 12.45-13.00 NUMBER SENSE: A PRELIMINARY STUDY 34 Zetra Hainul Putra, Windi Wulandari, Mahmud Alpusari and Neni Hermita AUTOMATIC GENERATION OF PROGRAMMING EXERCISES 13.00-13.15 45 Peter Sovietov TRENDS AND PROSPECTS OF THE EDUCATIONAL TECHNOLOGIES 13.15-13.30 DEVELOPMENT 48 Andrey Voronov, Gennady Voronov, Dmitry Voronov and Ivan Nefedov

9

Session W2					
Workplace and Industry-		Chair Assoc	ciate Prof. Alexander Galkin	ArtID	
Based Learnin	g	Chan Assoc	LIALE FIUL ALEXALIUEL GAINIT	ALLID	
(10:00-13:00)	)				
	AN INNOVATI	E CONCEPT FOR THE CONSTRUCTION	OF SHORT BASIC MATH		
10.00-10.15	COURSES			43	
		ova, Alexandr Vybornov and Vladimir			
		OF DATA MINING METHODS TO DEVELO	OPMENT OF QUALIFICATION		
10.15-10.30	FRAMEWORK			59	
	Vsevolod Che				
		ROTECTIVE DRIVING OF A CAR AT A L	ARGE INDUSTRIAL		
10.30-10.45	ENTERPRISE			3	
		Yulia Rizaeva, Dmitry Kadasev and M			
10.45-11.00		ACY IN THE ASPECT OF CONTINUING T		65	
10.15 11.00		ova, Nataliya Pachina, Svetlana Tkache	<u> </u>	03	
	THE STATE OF HEALTH AND DYNAMICS OF THE ATTITUDE OF STUDENTS TO ITS				
11.00-11.15	STRENGTHEN	71			
	Natal'ya Savvina, Alexander Volokitin and Ekaterina Vysotskaya				
		OF ROUTINE CALCULATIONS FOR ORGA			
11.15-11.30		74			
		VFORMATION TECHNOLOGIES			
		, Alexander Rusakov and Ekaterina Sa			
11.30-11.45	-	ONCEPT AND A NEW APPROACH TO W	URKER SAFETY TRAINING	81	
		Aria Markova and Mikhail Shipulin			
11.45-12.00		L CAPACITY OF INFORMATIZATION OF I	EDUCATION	82	
	Alexander Ru				
12 00 12 15		ON THE ISSUE OF THE PROBLEMS OF LEGAL OBLIGATION IN THE WELFARE STATE IN THE CONTEXT OF A PANDEMIC			
12.00-12.15	• • • • • • • • • • • • •			62	
		and Sergey Zavyalov			

Session O2 Open, Flexible & Distance Learning (10:00-13:00)		Chair	Prof. Sergey Chernyshenko	ArtID
10.00-10.15	DISTANCE LEARNING TECHNOLOGIES AND DIGITAL LEARNING IN THE LEGAL			61
10.15-10.30	DIGITALIZAT	ION	JTE OF EDUCATION IN THE CONTEXT OF ieva and Olga Maslova	83
10.30-10.45	ONLINE LEARNING OF COMPUTER SCIENCE TO SCHOOLCHILDREN USING INTERACTIVE EDUCATIONAL POSTERS Natalia Kulikova, Elena Danilchuk, Alexey Sergeev and Anna Lukicheva			84
10.45-11.00	DOCUMENTS I Igor Lvovich,	N EDUCATIONAL ORC	ey Preobrazhenskiy, Yuriy	27
11.00-11.15	MILL	TRAINING MODEL OF	THE THERMAL MODE FOR A HOT ROLLING	87
11.15-11.30			FORM OF EARLY MATHEMATICAL TRAINING a, Tatiana Menshikova and Anton Sysoev	88