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## ISUDEF'24

National Aviation Academy May 22nd-24th, 2024, Baku, AZERBAIJAN



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### ISUDEF'24 Program ~ DAY 1

		130DL1 24	Program - DAY I			
BAKU/Azerbaijan Time (UTC+4)		Baku Hall - 22 May 2024 <u>Microsoft Teams Link</u>				
	09:00 - 09:30 - NAA, Student Training Centre - Arrivals, Registration					
		Symposium Moderator: <b>Gunel Valiyeva</b>				
		Musical part				
09:30 - 10:30	Opening	Arif Pashayev, Honorary Chair of ISUDEF'24,	Rector of the National Aviation Academy, Azerb	aijan		
	Session	Adnan Özcan, Honorary Chair of ISUDEF'24, F	Rector of the Eskishehir Technical University, Tü	rkiye		
		Abdulhamit Avşar, Honorary Chair of ISUDEF	'24, Rector of the İstanbul Ticaret University, Tü	irkiye		
	Plenary	Adalat Samadov, The first vice-rector of the I	National Aviation Academy, Azerbaijan			
10:30 - 11:00	Reports Session	Beken Seidakhmetov, Rector of the Civil Aviation	Academy, Kazakhstan			
	Opening	Max. F. Platzer, Lifetime Honorary President of SA	IRES, USA			
11:00 - 12:00	Keynote Session	T. Hikmet Karakoç, President of SARES, Eskişehir	Technical University, Türkiye			
		12:00-13:3	30 Lunch Break			
		Session Chair: Birol Kılkış				
		Design concepts for a Flight Simulator of an Ur	nmanned Aerial System (UAS) from Hydra Techi	nologies		
			Chair in Aircraft Modeling and Simulation, École	-		
		Electronically Tunable Acousto-Optic Delay Line of a				
13:30 - 15:00	I Keynote	Afig Hasanov, Vice-rector for scientific affairs of th	ne National Aviation Academy, Azerbaijan			
13.30 - 13.00	Session	3D-VR simulators for engineering training on a	ircraft maintenance equipment using intellectual	l support		
		Kairat Koshekov, Vice-rector for scientific affairs of the Civil Aviation Academy, Kazakhstan				
		The cyber resilince problems of IoT-based cyber-physical systems and some approches to their solutions				
		Rasim Aliguliyev, Director of Institute of Info	rmation Technologies, Azerbaijan			
		Session Chair: Ruxandra Mihaela Botez				
		Intelligent UAV flight control system				
		Ali Abbasov, Director of Institute of Control S	ystems, Azerbaijan; <b>Elchin Aliyev,</b> President of th	e SİNAM, Azerbaijan		
15:00 - 16:00	I Industrial	Hydrogen in Aviation Sector				
	Special Session	Hüseyin Devrim, TEKSIS İleri Teknolojiler, Türkiye	e			
		GeoAI – Power of Location Intelligence Combined w	vith AI			
	Barış Uz, CEO of Esri Türkiye					
		16:00-16:1	5 Coffee Break			
		Baku Hall (Chair: Alper Dalkıran)	Karabakh Hall (Chair: Fuad Mirzayev)	Shusha Hall (Chair: Elgun Aghayev)		
		Microsoft Teams Link	Microsoft Teams Link	Microsoft Teams Link		
		Detection of foreign object debris on runway by using unmanned aerial vehicles, object	Sustainable control of UAVs with implementation of AES encryption method	Methodology for assessment of the technical condition of electric motors and descriptive		
		detection algorithms and lidar technology  Islam Isgandarov, National Aviation	<b>Ibrahim Babayev,</b> National Aviation Academy, Azerbaijan	forms of signals <b>Huseyngulu Guliyev,</b> Azerbaijan Technical		
		Academy, Azerbaijan <b>Hasan Huseynov</b> , National Aviation	<b>Rafail Ibrahimov,</b> National Aviation Academy, Azerbaijan	University, Azerbaijan <b>Elshan Manafov,</b> National Aviation		
		Academy, Azerbaijan	Aviation Academy, Azerbaijan	Academy, Azerbaijan <u>Farid Huseynov</u> , National Aviation		
			<b>Mehriban Mirzayeva,</b> National Aviation Academy, Azerbaijan	Academy; Azerbaijan State Oil and Industrial University, Azerbaijan		
		Weather Research Forecasting Model (WRF) - Digital Twin Automated System	The process of launching a missile on a target in the air by a drone with ballistic	Automatic door closing system based on the number of individuals		
16:15 - 17:00		Yiğitalp Kara, Samsun University, Türkiye Serdar Yumlu, Istanbul Technical	calculations and research. <b>Hasanov Huseyn,</b> National Aviation	Kamala Oghuz, Baku Higher Oil School, Azerbaijan Technical University, Azerbaijan		
	Paralel Session	University, Türkiye <b>Atom Damali,</b> Sampaş Holding, Türkiye	Academy, Azerbaijan <b>Huseynov Namig,</b> National Aviation	<b>Afruz Huseynova,</b> Baku Higher Oil School, Azerbaijan		
		<b>Hüseyin Toros,</b> Polar Meteorological Consulting & Engineering, Samsun	Academy, Azerbaijan  Nabiyev Khayyam, National Aviation			
		Technopark, Türkiye <b>Durdana Rustamova</b> , Western Caspian	Academy, Azerbaijan <b>Heybatov Deyanet,</b> National Aviation			
		University, Azerbaijan  Aydın Ulubey, Trakya University, Turkey	Academy, Azerbaijan  Mahmudov Kamil, National Aviation			
		Digital twin application for simulation of	Academy, Azerbaijan  An evaluation crop yield prediction using	Deep learning with Keras		
		quadcopter performance using various propellers	deep learning techniques  Bakhtiyar Babashli, National Aviation	<b>Shahla Zeynalova,</b> National Aviation Academy, Azerbaijan		
		<b>Gokce Cihan</b> , Erciyes University, Institute of Science, Türkiye	Academy, Azerbaijan  Aytac Badalova, National Aviation	Farid Novruzlu, National Aviation Academy, Azerbaijan		
		Nacak Aybuke, Erciyes University, Institute of Science, Türkiye	Academy, Azerbaijan	,,		
		Yildiz Melih, Erciyes University, Türkiye				





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#### ISUDEF'24 Program ~ DAY 2

	ISUDEF'24 Program ~ DAY 2						
		baijan Time C+4)	Baku Hall - 23 May 2024 <u>Microsoft Teams Link</u>				
			Session Chair: Afig Hasanov				
		II Keynote Session	Robust Kalman Filtering for Estimation of UAV Dynamics under Uncertain Measurement Noise Conditions  Chingiz Hajiyev, İstanbul Technical University, Faculty of Aeronautics and Astronautics, Türkiye				
	10:00 - 11:30		Hydrogen Fueled UAV for Forest Firefighting and Reconnaissance Birol Kılkış, OSTIM Technical University, Türkiye				
Artificial Intelligence in Project Management  Çetin Elmas, Gazi University, Türkiye							
			Session Chair: <b>Hüseyin Devrim</b>				
			Design Considerations for Tethered Aerostat Systems  Ahmet Nezir Ertürk, Otonom Teknoloji, Türkiye				
	11:30 - 12:30	II Industrial Special Session	Farhan Guliyev, Director, Azeraeronavigation (AZANS), Azerbaijan				
			The specialization of Safety in different Aviation fields and its role in the increasing of effectiveness of Safety Implementation at Airports  Elmir Gulu-zadeh, Deputy director of Heydar Aliyev International Airport				
			12:30-14:0	00 Lunch Break			
			Baku Hall (Chair: Chingiz Hajiyev)	Karabakh Hall (Chair: Fuad Mirzayev)	Shusha Hall (Chair: Elgun Aghayev)		
			Microsoft Teams Link	Microsoft Teams Link	Microsoft Teams Link		
		Paralel Session I	Structural synthesis of new Mars Rover Rasim Alizade, National Aviation Academy, Azerbaijan  Konul Husevnzade, National Aviation Academy, Azerbaijan	Application of stochastic forecasting models to passenger flows in non-scheduled air transportation Nadir Aghayev, National Aviation Academy, Azerbaijan  Dashoin Nazarli, National Aviation Academy, Azerbaijan	Performance analysis of Pseudo-Random SF-LFM pulse train radar system in the presence of noise Mirana Manafova, National Aviation Academy, Azerbaijan		
			A survey on flight controllers used for UAV platforms Alpaslan Durmus, OSTIM Technical University Turkey Erol Duymaz, OSTIM Technical University, Turkey Ahmet Murat Kadioğlu, OSTIM Technical University, Turkey	Air traffic control system controller performance under loss of spatial orientation Peyman Mukhtarov, National Aviation Academy, Azerbaijan Nurana Mammadova, National Aviation Academy, Azerbaijan	Development of a radio telemetry system for aerial vehicle Rafael Ibrahimov, National Aviation Academy, Azerbaijan Gurban Hasanli, National Aviation Academy, Azerbaijan Aygun Zeynalova, National Aviation Academy, Azerbaijan		
			A literature overview of the sustainable solutions in air transport industry: future prospects Imanov Tapdiq, Cyprus Science University, Northern Cyprus Aliyev Saiq, National Aviation Academy, Azerbaijan	The accelerated evolution of unmanned aerial vehicle technologies presents new challenges for aviation training centres  Fuad Mirzayev, National Aviation Academy, Azerbaijan  Gulnara Ahmadova, National Aviation Academy, Azerbaijan  Kovsar Dadashova, National Aviation Academy, Azerbaijan	Optimizing control over the movement of ground vehicle at airports Afig Hasanov, National Aviation Academy, Azerbaijan Ruslan Hasanov, Aviation Service Group, Azerbaijan Eigun Adhayev, National Aviation Academy, Azerbaijan Rovshan Ahmadov, National Aviation Academy, Azerbaijan		
	14:00 - 15:30		Prospects of the using terahertz waves in ensuring aviation safety Khagani Abdullayev, National Aviation Academy, Azerbaijan Turana Vazirova, Azerbaijan Aviation Academy, Azerbaijan	Disposal and recycling problems lithium-ion batteries Arif Mammadov, Azerbaijan Technical University, Azerbaijan Agil Babayev, Azerbaijan Technical University, Azerbaijan Mukhtar Huseynov, Azerbaijan Technical University, Azerbaijan Batura Musurzayeva, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical	Development of prospective methods for increasing the reliability of radar information in the ATC system Islam Isgandarov, National Aviation Academy, Azerbaijan  Teymur Alivey, National Aviation Academy, Azerbaijan		
			Graphical user interface system in unmanned aerial vehicles for differentiating enemy, civilian, and friendly targets  Aftandil Mammadov, National Aviation Academy, Azerbaijan  Dayanat Heybatov, National Aviation Academy, Azerbaijan  Yahya Ahadov, National Aviation Academy, Azerbaijan	Introduction of unmanned aerial vehicles - the key to the safety of international transport corridors Pana Sosunova, National Aviation Academy, Azerbaijan Ralaga Karimov, National Aviation Academy, Azerbaijan Gaibatullah Akhmedov, Azerbaijan Technical University, Azerbaijan	Smart sensors as an integral part of intelligent management and control systems Bikas Aghayev, Institute of Information Technologies of the Ministry of Science and Education, Azerbaijan Maleyka Pashayeva, Institute of Information Technologies of the Ministry of Science and Education, Azerbaijan		
			Evaluation of sustainability dimensions of air cargo carriers <u>Büsra Yıldırım</u> , Suleyman Demirel University, Turkiye <b>Eda Çınaroğlu,</b> Erciyes University, Turkiye	Enhancing Autonomous UAV Capabilities with deep reinforcement learning Sarkhan Aghadadashov, National Aviation Academy, Azerbaijan	Application of a hybrid random number generator for radar deceptive jamming prevention  Ruslan Hasanov, Aviation Service Group, Azerbaijan  Inci Aliyeva, National Aviation Academy, Azerbaijan		
			Satellite data and artificial intelligence applications in agriculture  Ayqul Musayeva, Baku Higher Oil School, Azerbaijan	Issues of taking into account the influence of temperature when measuring soil conductivity and salinity Elchin Isgenderzade, National Aerospace Agency, Azerbaijan Hikmat Asadov, National Aerospace Agency, Azerbaijan National Aerospace Agency, Azerbaijan Ammedova, National Aerospace Agency, Azerbaijan Rashad Nematzade, National Aerospace Agency, Azerbaijan Rashad Nematzade, National Aerospace Agency, Azerbaijan	Research on some issues of the processed surface formation in the hydroabrasive cutting of chrome-nickel steels  Sylvio Simon, Brandenburg University of Technology Cottbus-Senftenberg, Germany  Nizami Yusubov, Azerbaijan Technical University, Azerbaijan  Samir Amirli, Azerbaijan Technical University, Azerbaijan  Fariz Amirov, Azerbaijan Technical University, Azerbaijan		

		Baku Hall (Chair: Bahadır Cinoğlu)	Karabakh Hall (Chair: Islam Isgandarov)	Shusha Hall (Chair: Ramil Mukhtarov)
		Microsoft Teams Link	Microsoft Teams Link	Microsoft Teams Link
		A study on battery management systems in the application of aviation engines  Gokce Sarana, Eskisehir Technical University, Turkey  Ozge Yetik, Eskisehir Osmangazi University, Turkey  T. Hikmet Karakoc, Eskisehir Technical University, Turkey	Academy, Azerbaijan	Structural and constructive synthesis of octagonal Euclidean parallel robot manipulator of spacecraft docking system Rasim Alizade, National Aviation Academy, Azerbaijan Technical University, Azerbaijan Kanan Azimoy, National Aviation Academy, Azerbaijan Javad Samadzade, National Aviation Academy, Azerbaijan
16:00 - 17:00	Paralel Session II	UAS Data Management Systems: a case study (navigation notebook-seyir defteri)	Shahla Zeynalova, National Aviation	The influence of the orientation of electric and magnetic fields on current fluctuations
		Erol Duymaz, OSTIM Technical University, Turkey Serhat Gümüş, Mavi Kanatlar LLC, Turkey Ahmet Murat Kadıoğlu, OSTIM Technical University, Turkey Alpaslan Durmus, OSTIM Technical University, Turkey	Academy, Azerbaijan  Muhammadali Haiizadeh, Aviation Academy, Azerbaijan	Eldar Hasanov, Baku State University, Institute of Physics, Azerbaijan <u>Shahla Khalilova</u> , Institute of Physics, Azerbaijan <b>Ruhiyya Mustafayeva,</b> Baku State University, Azerbaijan
		Boosting Performance of Recurrent Neural Networks via Task-Oriented Modifications Sahin Isik, Eskisehir Osmangazi University, Turkey Isil Yazar, Eskisehir Osmangazi University, Turkey Yildiray Anagun, Eskisehir Osmangazi University, Turkey	Appling of integrated diagnostic models in aircraft structures Khagani Abdullayev, National Aviation Academy, Azerbaijan Solmaz Allahverdiyeva, National Aviation Academy, Azerbaijan Rovshen Aliyev, Academy, Azerbaijan	Algorithm development for software optimization using ANT  Shafaqat Mahmudova, Ministry of Science and Education Institute of Information Technology, Azerbaijan
		Universal standby pendulum indicator for measuring and alerting attitude of aircraft  Toghrul Karimli, National Aviation Academy, Azerbaijan  Vasif Karimli, Azerbaijan Airlines, Azerbaijan  Vagif Garashov, George Washington University, USA; ADA University, Azerbaijan	Research on ways to improve the reliability of spacecraft systems  Islam Isgandarov, National Aviation Academy, Azerbaijan	Application of drones to perimeter security systems  Ramil Mukhtarov, National Aviation Academy, Azerbaijan  Famin Salmanov, Institute of Radiation Problems of the Ministry of Science and Education Republic of Azerbaijan  Namiq Heydarov, Institute of Radiation Problems of the Ministry of Science and Education Republic of Azerbaijan  Nezire Mazanova, National Aviation Academy, Azerbaijan

International Symposium on Unmanned Systems: Al. Design & Efficiency





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### ISUDEF'24 Program ~ DAY 3

		baijan Time C+4)	Baku Hall - 24 May 2024 <u>Microsoft Teams Link</u>				
	10:00 - 11:30	III Keynote Session	The business model of an automated warehouse with the integration of the cargo world application  Indira Assilbekova, Civil Aviation Academy, Almaty, Kazakhstan				
			Evolving needs of airport information systems after AI potential  Alper Dalkıran, Suleyman Demirel University, Turkey				
: :		Relevance of studying the Earth's ionosphere using nanosatellites: roadmap and current results of Samara University  Igor Belokonov, Head of department, Samara National Research University named after Academician S.P. Korolev, Russia					
			Session Chair: T. Hikmet Karakoç				
		:00 IV Keynote Session	To the application of non-contact measurement and control methods and devices in aerospace instrumentation  Islam Isgandarov, Head of Department Aerospace Instruments, National Aviation Academy, Azerbaijan				
	11:30 - 13:00		Aircraft electrification as a pathway to net zero air transportation  Oleksandr Zaporozhets, Łukasiewicz Research Network – Institute of Aviation, Poland				
			Automatic Emotion Recognition from Speech Signal Raziyam Anayatova, Civil Aviation Academy, Alma	Using Deep Learning Technology			
	13:00-14:00 Lunch Break						
	Baku Hall (Chair: Bahadır Cinoğlu)  Karabakh Hall (Chair: Islam Isqandarov)  Shusha Hall (Chair: Elgun Aghayev						
Microsoft Teams Link Microsoft Teams Link Microsoft Teams Link					Microsoft Teams Link		

14:00 - 15:30	Paralel Session I	Examining heart rate variability in unmanned aerial vehicle operator automation  Omar Alharasees, Budapest University of Technology and Economics, Hungary  Utku Kale, Budapest University of Technology and Economics, Hungary  Features of integrating artificial intelligence into maintenance and reliability design for remote monitoring  Islam Isgandarov, National Aviation	working algorithm Rasim Nabiyev, Academy, Azerbaijan Gadir Garayev, Academy, Azerbaijan  Enhancement of Smalattitude estimation artificial intelligent col Islam Isgandarov	National Aviation National Aviation National Aviation  National Aviation  National Aviation  National Aviation  National Aviation	A study on the contributions of phase change material in battery cooling processes in thermal management  Cagla Akpinar, Eskisehir Technical University, Turkey  Ozge Yetik, Eskisehir Osmangazi University, Turkey  T. Hikmet Karakoc, Eskisehir Technical University, Turkey  Optimizing Airport Cybersecurity: Expert-Based Comparative Analysis  Mahmoud Eleimat, Obuda University, Hungary	
		Academy, Azerbaijan  Yunus Karimov, Academy, Azerbaijan  Advantages of IMA technology and their application  Aftandil Mammadov, National Aviation	unmanned aerial v detection	implementation on ehicle for real-time	Arnold Oszi, Obuda University, Hungary  Simulation of an ultrasonic generator with excitation of the natural frequency of a mechanical vibration system during the	
		Academy, Azerbaijan  Orkhan Shikhverdiyev, National Aviation Academy, Azerbaijan	Firdovsi Mahmudli Academy, Azerbaijan Deyanat Heybatov Academy, Azerbaijan Samad Samadov, Academy, Azerbaijan	, National Aviation  National Aviation  National Aviation	vibration cutting process Imran Yolchuyev, Azerbaijan Technical University, Azerbaijan Toghrul Karimli, National Aviation Academy, Azerbaijan Seymur Aliyev, National Aviation Academy, Azerbaijan	
		AI Assisted Soaring UAVs  Alpaslan Durmus, OSTIM Technical University, Turkey Erol Duymaz, OSTIM Technical University, Turkey Ahmet Murat Kadıoğlu, OSTIM Technical University, Turkey	MW-CNT/ polymer preparation of harmfu sensors Samira Mammadov Academy, Baku, Aze Physics, Ministry of Sc Asgar Huseynov, Ins Inorganic Chemist Academician M.Nag	a, National Aviation prbaijan, Institute of cience and Education stitute of Catalysis and ry Named After hiyev, Ministry of	Diagnostic system for traction motor bearings based on Artificial Intelligence  Elshan Manafov, National Aviation Academy, Azerbaijan  Huseyngulu Guliyev, Azerbaijan Technical University, Azerbaijan  Farid Huseynov, National Aviation Academy; Azerbaijan State Oil and Industrial University, Azerbaijan	
		City of the designed convertiglans type	Science and Education	citute of Catalysis and ry Named After hiyev, Ministry of n, Azerbaijan		
		Study of the designed convertiplane-type micro UAV in stationary and multicopter flight modes with the on-board control-measurement system  Rasim Nabiyev, National Aviation Academy, Baku, Azerbaijan  Anar Abdullayev, National Aviation Academy, Baku, Azerbaijan  Gadir Garayev, National Aviation Academy, Baku, Azerbaijan	protect UAVs from cyt Aftandil Mammado Academy, Azerbaijan Gurban Sadiqov, Academy, Azerbaijan	v, National Aviation  National Aviation	Using space images and ArcGIS software of pollution sources of the Caspian Sea in Neftchala district  Aytaj Badalova, National Aviation Academy, Azerbaijan  Narmin Gaflanova, National Aviation Academy, Azerbaijan	
		use and Isla Acac Ram	Aircraft accidents associated with improper use of ground proximity warning systems and ways to eliminate them  Islam Isgandarov, National Aviation Academy, Azerbaijan  Ramil Ramazanov, National Aviation Academy, Azerbaijan	solution doped with te Mail Tagiyev, Azerbai of Economics, Azerbai Khadiia Aliveva, Ministry of Science a Repulic of Azerbaijan, Tarana Piriyeva, Ministry of Science Repulic of Azerbaijan,	f BiO.85SbO.15 solid illurium aijani State University jan institute of Physics, and Education of the Azerbaijan institute of Physics, and Education of the	Study of FSON Based on a Simple Artificial Neuron Model Mehman Hasanov, Azerbaijan Technical University, Azerbaijan Aviation Academy, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Technical University, Azerbaijan Turana Rasullu, Azerbaijan Technical University, Azerbaijan
		Study of the possibility of ground water pollution due to soil contamination with oil Ayshan Azizova, National Aerospace Agency, Azerbaijan Elshen Memmedov, National Aerospace Agency, Azerbaijan Elchin Isgenderzade, National Aerospace Agency, Azerbaijan Khumar Aliyeva, National Aerospace Agency, Azerbaijan	Deformations occurrin powder bodies duri sintering	g in the AL-CU System ng the liquid-phase nja State University,	Methods of applying geodetic technologies for hydrological measurements  Aysel Calilova, Ministry of Defence Industry of the Azerbaijan Republic, National Aerospace Agency (NASA) of Azerbaijan, Deparment of Special design bureau of Instrument engineering, Azerbaijan  Yugar Arazov, Coordinate Group LLC, Azerbaijan	
		15:30 - 1	16:00 Coffee break			
		Baku Hall (Chair: Rovshan Al	hmadov)	Karabakh I	Hall (Chair: Kovsar Dadashova)	
		Microsoft Teams Lin	<u>k</u>		Microsoft Teams Link	
		Top drive wash pipe surface wearing Fariz Amirov, Azerbaijan Technical Universit Ilgar Shiraliyev, Azerbaijan Technical Unive	ersity, Azerbaijan	Nadir Agayev, Nation Amirkhanli Durdane	icademic performance of high school students nal Aviation Academy, Azerbaijan i, National Aviation Academy, Azerbaijan	
		Application of multispectral satellite imageotechnical objects based on various norma	lized indices	environmental and eco	ing correlation and regression analysisnin conomic research in oil refineries	

		Baku Hall (Chair: Rovshan Ahmadov)	Karabakh Hall (Chair: Kovsar Dadashova)
	Paralel Session II	Microsoft Teams Link	Microsoft Teams Link
16:00 - 17:00		Top drive wash pipe surface wearing  Fariz Amirov, Azerbaijan Technical University, Azerbaijan  Ilgar Shiraliyev, Azerbaijan Technical University, Azerbaijan	Multi-Agent model of academic performance of high school students  Nadir Agayev, National Aviation Academy, Azerbaijan  Amirkhanli Durdane, National Aviation Academy, Azerbaijan
		Application of multispectral satellite images for monitoring geotechnical objects based on various normalized indices Elchin Isgenderzade, National Aerospace Agency, Azerbaijan Rauf Raqimov, National Aerospace Agency, Azerbaijan Rashad Nematzade, National Aerospace Agency, Azerbaijan Elman Aleskerov, National Aerospace Agency, Azerbaijan Farid Samedov, National Aerospace Agency, Azerbaijan	The possibility of using correlation and regression analysisnin environmental and economic research in oil refineries  Azizov Bakhtiyar, National Aviation Academy, Azerbaijan  Maharramov Tural, National Aviation Academy, Azerbaijan  Hikmat Mammadov, National Aviation Academy, Azerbaijan  Valehov Nasimi, National Aviation Academy, Azerbaijan
		Increasing the energy efficiency of UAVs Ramiz Kalbiyev, Azerbaijan Technical University, Azerbaijan Rana Hamidova, Azerbaijan Technical University, Azerbaijan Murad Rzayev, Azerbaijan Technical University, Azerbaijan	Features of the new design of the camshaft of internal combustion engines  Vagif Abbasov, Azerbaijan Technical University, Azerbaijan  Fariz Amirov, Azerbaijan Technical University, Azerbaijan  Azad Karimov, Azerbaijan Technical University, Azerbaijan
		On the possibility of mutual inter-satellite radiometric calibration of equipment on board Landsat satellites  Amida Aliyeva, National Aerospace Agency, Azerbaijan  Hikmat Asadov, National Aerospace Agency, Azerbaijan  Tofig Suleymanov, National Aerospace Agency, Azerbaijan	Investigation of the water regime of foothill regions in the river basin zones Hikmet Asadov, National Aerospace Agency, Azerbaijan Yegane Suleymanova, National Aerospace Agency, Azerbaijan Hemide Muradli, National Aerospace Agency, Azerbaijan
		Impact of physical factors on stability of solutions at simulation of transients in high-voltage systems  Tahir Lazimov, Azerbaijan State Marine Academy, Azerbaijan  Esam Saafan, University of El-Mansoura, Egypt  Asif Sadigov, Azerbaijan Technical University, Azerbaijan	Towards a green world: economic development prospects for the alternative energy industry  Gazanfar Suleymanov, Azerbaijan State Oil and Industry University, Azerbaijan  Turkan Sheydai. Azerbaijan State Oil and Industry University, Azerbaijan
		Kinematic and dynamic calculation of profiled cam mechanism based on new equation  Isa Khalilov, Azerbaijan Technical University, Azerbaijan  Ahmad Imanov, National Aviation Academy, Azerbaijan	<b>Nurana Abbasova,</b> Azerbaijan State Oil and Industry University, Azerbaijan <b>Ziyada Safarli,</b> Azerbaijan State Oil and Industry University, Azerbaijan