



INTERNATIONAL ANTALYA SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES CONGRESS

18-21 December 2021/ Antalya, Side

PROCEEDING BOOK

abtsracts and full texts

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ULUSLARARASI
ANTALYA BİLİMSEL
ARAŞTIRMALAR VE YENİLİKÇİ
ÇALIŞMALAR KONGRESİ
18-21 Aralık 2021/ Antalya, Side

BİLDİRİ KİTABI
Özet ve tam metinleri



International Antalya Scientific
Research and Innovative Studies Congress
18-21 December 2021/ Antalya, Side
Institute of Economic Development and Social Research

PROCEEDING BOOK

EDITORS

Prof. Dr. Antonio JAKIMOVSKI
Assoc. Prof. Dr. Elena RIZOVA

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ABOUT CONGRESS

International Antalya Scientific
Research and Innovative Studies Congress
Institute of Economic Development and Social Research

Keynote & Invited participation type

DATE - PLACE

18-21 December 2021/ Antalya, Side

ORGANIZATION

İKSAD- www.iksad.org.tr

OTTOMAN&TURKISH STUDIES CENTRE

LANGUAGES

Turkish, English, Russian

EVALUATION PROCESS

All applications have undergone a double-blind peer review process

PRESENTATION TYPE

Oral in person and virtual presentations

INTERNATIONAL PARTICIPANT COUNTRIES

Participants' Countries:

*Turkey (68 papers), Ukraine, USA, Kazakhstan, Ethiopia, Pakistan,
Azerbaijan, Uzbekistan, Iran, Morocco, Canada, Saudi Arabia, Kosovo,
India, Algeria, Romania, Iraq, Georgia, Egypt, Macedonia, Albania,
Panama, Poland, Jordan, Bulgaria, Russia (74 papers)*

26 countries

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Zhandos Alimgerey- İKSAD

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Dr. Mohammed Shoaib KHAN - Pak Turk Maarif School

Dr. Mehmet Emin KALGI - Çukurova University

OPENING CEREMONY

OPENING CEREMONY PROGRAM

19 December 2021

Castival Hotel - Main Conference Hall

Time: 09.30-11.00

MODERATOR: KALDYGUL ADILBEKOVA

**WELCOME SPEECH: DR. MUSTAFA LATIF EMEK
THE PRESIDENT OF İKSAD**

Keynote Speakers

DR. HASAN YAVUZ

**AMBASSADOR, MINISTRY OF FOREIGN AFFAIRS OF THE
REPUBLIC OF TURKEY**

Prof. DR. M. A. Aliyev

**DIRECTOR GENERAL OF THE CENTRAL SCIENTIFIC LIBRARY OF
ANAS AZERBAIJAN NATIONAL SCIENCE ACADEMY**

ASSOC. PROF. TAVALDIEVA GULBAKXAR

TASHKENT THEMICAL-TECHNOLOGICAL INSTITUTE, UZBEKISTAN

Prof. ASEM A. SHEHABI

**Prof. Of Medical Microbiology, School of Medicine,
THE JORDAN UNIVERSITY AMMAN, JORDAN**

CONGRESS GALLERY- GREETING



CONGRESS GALLERY-GREETING



CONGRESS GALLERY- GREETING



CONGRESS GALLERY- OPENING



CONGRESS GALLERY- OPENING



CONGRESS GALLERY- COCKTAIL



CONGRESS GALLERY- AWARDING



CONGRESS GALLERY- SESSIONS



CONGRESS GALLERY-SESSIONS



International Antalya

Scientific Research and Innovative Studies Congress

18-21 December 2021

*Side, Antalya, Turkey- Castival Hotel
in person and online participation*

CONGRESS PROGRAM

Participants Countries:

Turkey (68 papers), Ukraine, USA, Kazakhstan, Ethiopia, Pakistan, Azerbaijan, Uzbekistan, Iran, Morocco, Canada, Saudi Arabia, Kosovo, India, Algeria, Romania, Iraq, Georgia, Egypt, Macedonia, Albania, Panama, Poland, Jordan, Bulgaria, Russia (74 papers)

ZOOM Meeting ID: 812 2134 1079 / Passcode: 121212

★ IMPORTANT NOTIFICATION

★ ÖNEMLİ BİLGİ

★ ВАЖНОЕ УВЕДОМЛЕНИЕ

**CONFERENCE LANGUAGES/ MOBИ KOHΦEPEHЦИЙ/ KONGRE DİLLERİ/
ЯЗЫКИ KOHΦEPEHЦИИ**

The presentations in sessions will be in Turkish, Russian and English languages, therefore if you will present your paper in one of the conference languages other than English, please make your Power Point presentation in dual languages one of which to be English, so the all participants of the conference will benefit from your research.

Oturumlardaki sunumlar Türkçe, Rusça ve İngilizce dillerinde olacaktır, bu nedenle bildirinizi İngilizce dışında dillerden birinde sunacaksanız, lütfen Power Point sunumunuzu biri İngilizce olacak şekilde çift dilde yapınız. Böylece kongrenin tüm katılımcıları araştırmanızdan faydalanabilecektir.

Презентации на сессиях будут на турецком, русском и английском языках, поэтому, если вы будете представлять свой доклад на одном из языков конференции, кроме английского, пожалуйста, сделайте презентацию Power Point на двух языках, один из которых будет по-английски, чтобы все участники конференции извлекли пользу из вашего исследования.

OPENING CEREMONY

19 December 2021

Castival Hotel – Conference Hall

Time: 09.30-11.00

Moderator: Kaldygul Adilbekova

Welcome Speech: Dr. Mustafa Latif Emek

The President of İKSAD

Keynote Speakers

Dr. Hasan YAVUZ

Ambassador, Ministry of Foreign Affairs of the Republic of Turkey

Prof. Dr. M. A. Aliyev

Director General of the Central Scientific Library of ANAS

Azerbaijan National Science Academy

Assoc. Prof. Tavalдиеva Gulbakxar Nishanovna

Tashkent Thematical-Technological Institute, Uzbekistan

TURKEY TIME: 11.00am

DATE: 19 Dec

Hall- 1 / SESSION-1

in person session

MODERATOR: Prof. Dr. Zekai ÖZTÜRK

Prof. Dr. Zekai ÖZTÜRK Zehra KILIÇ Öğr. Gör. Figen ÖZŞAHİN Dr. Öğr. Üyesi Selman KIZILKAYA	Ankara Hacı Bayram Veli Üniversitesi, İktisadi ve İdari Bilimler Fakültesi, Sağlık Yönetimi Bölümü, Avrasya Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Dış Protez Teknolojisi Programı, Trabzon, Dicle Üniversitesi, İktisadi ve İdari Bilimler Fakültesi, Sağlık Yönetimi Bölümü, Diyarbakır,	<i>THE EFFECT OF ORGANIZATIONAL JUSTICE ON ORGANIZATIONAL COMMITMENT (A RESEARCH IN THE CALL CENTER)</i>
Kamil KAMILLI Vugar Nazarov Jamal Hajiyev Ahadov Vasif	"ATMU, Business Administration, Department of Economics, PhD Student in Economics, Baku, Azerbaijan."	<i>Impact of Economic Growth on Employment by Economic Sectors in Azerbaijan</i>
Manzura Imamalieva	Tashkent chemical- technological institute, the faculty of Management and professional education,	<i>GENERAL VIEWS OF ABU ALI IBN SINA ON EDUCATION AND UPBRINGING</i>
PhD, assoc. prof. Tavalдиеva Gulbakxar Nishanovna Mirzaeva Sayyora Toirovna	Tashkent chemical- technological institute	<i>VIEWS OF AHMAD YASSAVI AND YUNUS EMRO</i>
Shaknoza Adilova	PhD, The head of Department of Tashkent State Technical University	<i>TEACHING TECHNICAL DISCIPLINES IN ENGLISH AS AN EFFECTIVE MECHANISM FOR THE INTERNATIONALIZATION OF TRAINING ENGINEERING AND TECHNICAL STAFF</i>
PhD, assoc. prof. Tavalдиеva Gulbakxar Nishanovna	Tashkent chemical- technological institute,	<i>ABOUT THE UZBEK TRANSLATION OF YUNUS EMRO'S WORKS</i>
Prof. Dr. İhsan Cemil DEMİR Öğr. Gör. Merve MALAK	Afyon Kocatepe Üniversitesi İİBF Maliye Bölümü.	<i>TÜRKİYE'DE SON 50 YILDA KAMU MALİYESİ BAĞLAMINDA PATERNALİZM ANLAYIŞI</i>

TURKEY TIME: 10.00am

DATE: 19 Dec

Hall-2 / SESSION-1

in person session

MODERATOR: Dr. Hasan YAVUZ

Ph.D. Mammadli Rovshan Ulduz oglu Mammadli Khayala Ilham gizi	"Central Scientific Library of the Azerbaijan National Academy of Sciences, Baku, Electronic Resources Department"	<i>POST WAR RESEARCH AND ANALYSIS: THE KARABAKH WAR IN THE CENTRAL SCIENTIFIC LIBRARY SYSTEM OF ANAS</i>
PhD, Prof. M. A. Aliyev	Director General of the Central Scientific Library of ANAS	<i>Destruction of cultural and religious monuments in Karabakh as a result of the Armenian occupation</i>
Reyhan Jafarova	Azerbaijan National Academy of Sciences Central Library of Science Academy of Public Administration	<i>KARABAKH WAR IN THE CONTEXT OF INTERNATIONAL HUMANITARIAN LAW</i>
Dr. Hasan YAVUZ	Büyükelçi TC Dışişleri Bakanlığı	<i>The Phenomenon of Migration and the New Urbanization Order in Europe France Example</i>
Dr. Giorgi Chubinidze Dr. Manuchar Shishinashvili Prof. Dr. Aleksı Burduladze	"Georgian Technical University, Faculty of Construction, Tbilisi, Georgia."	<i>ROAD NETWORK MODERNIZATION IN GEORGIA</i>
Deniz Anginer Anil Donmez Nejat Seyhun Ray Zhang	Beedie School of Business, Simon Fraser University Department of Economics, Simon Fraser University Ross School of Business, University of Michigan Beedie School of Business, Simon Fraser University	<i>Race Differences in Senior Executives' Access to Information</i>
Serik Madina Almaskyzy	"Master of Science. Kazakh National Pedagogical University named after Abai. Kazakhstan. Almaty"	<i>DEVELOPMENT OF TOURISM IN THE SPIRITUAL AND CULTURAL CENTER OF THE TURKISH WORLD IN THE CITY OF TURKESTAN</i>

TURKEY TIME: 15.00 pm

DATE: 19 Dec

Hall-1 / SESSION-2

in person session

MODERATOR: Prof. Dr. Aleksandra Karovska Ristovska

Prof. Dr. Aleksandra Karovska Ristovska Prof. Dr. Nikola Minov Prof. Dr. Antonio Jakimovski Prof. Dr. Marjan Jovanov	Faculty of Philosophy, Ss. Cyril and Methodius University Skopje, Republic of North Macedonia.	<i>ACCESSIBLE AND DIGITALIZED CULTURAL HERITAGE FOR PERSONS WITH DISABILITIES</i>
Assoc. Prof. Dr. Marina APAYDIN	American University in Cairo, New Cairo, Egypt	<i>"DISRUPTIVE INNOVATION IN EDUCATION: TURNING CONSTRAINTS INTO OPPORTUNITIES IN THE PANDEMIC TIMES"</i>
Assoc. Prof. Dr. Elena RIZOVA	University "Ss Cyril and Methodius" in Skopje, Faculty of Philosophy - Skopje, Institute of pedagogy, Skopje, Republic of Macedonia.	<i>LIFELONG LEARNING CENTERS AS FUTURE PROSPECTS FOR DEVELOPMENT IN HIGHER EDUCATION</i>
Prof. Dr. Svetlana TRBOJEVIK Assoc. Prof. Dr. Elena RIZOVA Sofija GEORGIEVSKA Natasha STANOJKOVSKA TRAJKOVSKA	University "Ss Cyril and Methodius" in Skopje, Faculty of Philosophy - Skopje, Institute Social Work and Social Policy, Skopje, Republic of North Macedonia.	<i>CHILD AND SOCIAL PROTECTION SYSTEM DEVELOPMENT IN THE REPUBLIC OF NORTH MACEDONIA</i>
Beisembina Aynagul Yelemesovna	member of the KPSA Multidisciplinary college at Kokshetau university named after Sh.Ualikhanov"	<i>EFFECTIVENESS OF LANGUAGE ACQUISITION BASED ON CASE-STUDY TECHNOLOGY</i>

TURKEY TIME: 15.00 pm

DATE: 19 Dec

Hall-2 / SESSION-2

in person session

MODERATOR: Dr. Bülent ÇAVAŞ

Бахыт Мәлдір Бахытқызы	"Магистр наук. Казахский Национальный Педагогический Университет имени Абая. Казахстан. Алматы"	<i>"ЭФФЕКТИВНОСТЬ ИСПОЛЬЗОВАНИЯ GOOGLE EARTH ПРИ ОБУЧЕНИИ ГЕОГРАФИИ"</i>
Şermin AÇIK ÇINAR Bülent ÇAVAŞ	"Dokuz Eylül University, Institute of Marine Sciences and Technology, Izmir, Turkey. Inter-Islamic Network on Oceanography"	<i>SCIENCE AND INNOVATION IN MARINE SCIENCES: INTER ISLAMIC NETWORK ON OCEANOGRAPHY</i>
Mohamed El Malki	"Mohammed First University, LaMOn2E, Department of Physics, Faculty of Sciences, 60000 Oujda, Morocco."	<i>ACOUSTIC BAND GAP EXPLOITATION USING A DEFECT INSIDE DUAL HELMHOLTZ RESONATORS STRUCTURE</i>
Nuriye Tuna SUBAŞI	"Kırşehir Ahi Evran University, Faculty of Engineering and Architecture, Department of Food Engineering, Kırşehir, Turkey"	<i>THE PLACE AND IMPORTANCE OF OXIME COMPOUNDS IN THE TREATMENT OF ORGANOPHOSPHATE POISONING</i>
Prof. Asem A. Shehabi	Prof. Of Medical Microbiology School of Medicine, The Jordan University Amman, Jordan	<i>Probiotics in Human Health and Disease</i>
Şermin AÇIK ÇINAR Bülent ÇAVAŞ	Dokuz Eylül University, Institute of Marine Sciences and Technology, Izmir, Turkey. Inter-Islamic Network on Oceanography	<i>EVALUATING TURKISH PRESERVICE SCIENCE TEACHERS' OCEAN LITERACY LEVEL</i>

TURKEY TIME: 10⁰⁰-12³⁰

DATE: 20.12.2021

HALL-1 / SESSION-1

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Dr. Can BIYIK

Selim Taşkaya	Artvin Çoruh University, Artvin, Turkey	"DISPLAY OF ZONING DIAMETER ACCORDING TO THE DISTANCE APPROACH TO SPORTS FACILITY ZONING ISLANDS"
Çağlar Özer	Earthquake Research Centre and Department of Civil Engineering, Engineering Faculty, Ataturk University, Erzurum, Turkey	INVESTIGATION OF SEASONAL DIFFERENCES OF HORIZONTAL-TO-VERTICAL SPECTRAL RATIO (HVSr) METHOD
Rizk M. Rizk-Allah Mohamed I. Zineldin Aboul Ella Hassanien	Faculty of Engineering, Menoufia University, Shebin El-Kom, Egypt	"Extracting Parameters of photovoltaic cells utilizing Salp Swarm Algorithm"
Dr. G.P. Ashwinkumar, B. Ranjana	Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Bellary, India.	IMPACT OF THERMAL RADIATION ON MHD FLOW OF HYBRID NANOFLUID OVER A STRETCHING SURFACE
Dr. G.P. Ashwinkumar P. Nanda	Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Bellary, India.	3-D MHD FLOW OF NON-NEWTONIAN HYBRID NANOLIQUID ABOVE A STRETCHING SURFACE
Dr. G.P. Ashwinkumar	Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Bellary, India.	Dual solutions for the unsteady flow of MHD hybrid nanofluid over a flat/slendering surface
Dr. Yasmina KELLOUCHE Ayoub ALLANI Islem Mustapha ZIANE BOUZIANE Dr. Ismahane TALEB BAHMED	"Department of Earth Science and Univers, University Djilali Bounaama, 44225 Khemis- Miliana, Algeria, Geomaterials Laboratory, Department of Civil Engineering, University of Chlef, Chlef, Algeria"	PREDICTION OF GEOTECHNICAL PROPERIES OF LIME STABILIZED SWELLING SOILS USING ARTIFICIAL NEURAL NETWORKS
Asist. Prof. Dr. Serap Yiğit Gezgin Phd Student. Amina Houimi Asist Prof. Dr. Yasemin Gündoğdu Prof. Dr. Hamdi Şükür Kılıç	"Selcuk University, Faculty of Science, Department of Physics, Konya, Turkey"	The determination of photovoltaic values of CZTS solar cell using SCAPS simulation program
Asst Prof. Dr. Costin ILINÇĂ Asst Prof. Dr. Maria TĂNASE	Petroleum-Gas University of Ploiesti, Romania	THE INFLUENCE OF WELDING JOINT DEFECTS ON THE BOTTOM-SHELL JUNCTION FOR A VERTICAL CYLINDRICAL STORAGE TANK
Duaa BABAT	Ondokuz Mayıs University, Engineering Faculty, Civil Engineering, Samsun, Turkey	STABILIZATION OF SWELLING SOILS BY WASTE PLASTIC MATERIALS
Dr. Can BIYIK	Ankara Yıldırım Beyazıt Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, İnşaat Mühendisliği Bölümü,	Seasonal Dynamics of Mobility in Turkey

TURKEY TIME: 10⁰⁰-12³⁰

DATE: 20.12.2021

HALL-2 / SESSION-1

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Dr. Binyam Zigta

Dr. Binyam Zigta	Wachemo University College of Natural and Computational Science, Ethiopia	<i>Effect of Thermal Radiation and Chemical Reaction on MHD Flow of Blood in Stretching Permeable Vessel</i>
P.H. Najafgulyeva	II Department of Surgical Diseases	<i>THERAPEUTIC ENDOSCOPY IN ACUTE GASTRODUODENAL HEMORRHAGE</i>
Tülay ÇIKRIK Mihriban Tuncer	Bilecik Şeyh Edebali University, Vocational School of Health Services, Medical Services and Techniques, Bilecik, Turkey	<i>ASPIRATION CATHETER WITH SPINNING WHEEL MECHANISM</i>
Associate Prof. Dr. Stoyan Simeonov Novakov Dr. Nina Ivanova Yotova	Medical University of Plovdiv, Medical Faculty, Department of Anatomy, Histology and Embryology, Plovdiv, Bulgaria	<i>TWO CASES OF VASCULAR ABNORMALITIES IN THE ABDOMINAL CAVITY</i>
Dr. Mahmoud A. Eldeeb Assoc. Prof. Dr. Eman F. Sanad Assoc. Prof. Dr. Ahmed Ragab Prof. Dr. Yousry A. Ammar Prof. Dr. Khaled Mahmoud Prof. Dr. Nadia M. Hamdy Prof. Dr. Mamdouh M. Ali	Biochemistry Department, Genetic Engineering and Biotechnology Research Division, National Research Centre, Dokki 12622, Giza, Egypt.	<i>"Biochemical activity and docking of new isatin sulfonamide derivative(s) as potential anticancer agent(s)"</i>
Handan SARAÇ Associate Prof. Dr. Burak TÜZÜN	Plant and Animal Production Department, Technical Sciences Vocational School of Sivas, Sivas Cumhuriyet University,	<i>Determination of the Activities of Horse chestnut (Aesculus hippocastanum L.) Extract Against Liver Cancer Proteins</i>
HASAN DURUKAN Burak TÜZÜN HANDAN SARAÇ AHMET DEMİRBAŞ	Plant and Animal Production Department, Technical Sciences Vocational School of Sivas, Sivas Cumhuriyet University,	<i>Activities of Dandelion (Taraxacum officinale) Extract Against Breast Cancer Proteins</i>
Gorgadze Gigi Khachiasvhili Gvantsa Koniashvili Otar Korrapati Naga Harika Gabunia Luiza	Tbilisi State Medical University,	<i>Covid-19 and Comorbid Patients</i>

TURKEY TIME: 10⁰⁰-12³⁰

DATE: 20.12.2021

HALL-3 / SESSION-1

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Ass. Prof. Dr. Felicia ANDREI

Bike ALTAN Sevki CINAR	University of Health Sciences, Vocational School of Health Services, Department of Dentistry Services, Istanbul,	<i>Harmonizing Pink and White Aesthetics with Smile Design</i>
Gulucag Giray TEKIN	Batman University Faculty of Dentistry, Batman, Turkey	<i>"DENTAL IMPLANT APPLICATION BY OBTAINING SUFFICIENT AMOUNT OF BONE WITH LATERAL ANTROSTOMY METHOD: A CASE REPORT"</i>
Esra ATEŞ YILDIRIM Mehmet Utku ÖZCAN	Abant İzzet Baysal Üniversitesi, Diş Hekimliği Fakültesi, Priodontoloji, BOLU, TÜRKİYE.	<i>AUGMENTATION OF ANTERIOR GINGAL RETRACTION WITH FREE GINGAL GRAFT</i>
Esra ATEŞ YILDIRIM Mehmet Utku ÖZCAN	same	<i>AUGMENTATION OF MULTIPLE GINGIVAL RECESSIONS WITH ENVELOPE FLAP TECHNIQUE AND CONNECTIVE TISSUE GRAFT</i>
Rodolfo Reda Alessio Zanza Maurilio D'Angelo Dario Di Nardo Luca Testarelli	Rome, Italy	<i>ULTRASOUND IMAGING IN DENTISTRY: A LITERATURE OVERVIEW</i>
Ass. Prof. Dr. Felicia ANDREI Prof. Dr. Anca DRAGOMIRESCU	University of Medicine and Pharmacy	<i>DERMOCOSMETICS E-COMMERCE IN ROMANIA DURING THE PANDEMICS</i>

TURKEY TIME: 10⁰⁰-12³⁰

DATE: 20.12.2021

HALL-4 / SESSION-1

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Assoc. Prof. Dr. Merve YILDIRIM

Muntazar Mehdi Dr. Arshad Ali Shanzeh Shahrokh	NUML, Islamabad, Pakistan	<i>A Discourse Analysis of the Begging Strategies in Pakistan A Case Study</i>
NaghmeH HACHEMPOUR	"Department of School of Human and Ecology, College of Behavioral and Social Sciences, Georgia Southern University, Statesboro, GA, United States"	<i>THE ART OF VISUALIZING MUSIC</i>
Melek Yıldız Dr. Tülay Gümüşer	Kütahya Sağlık Bilimleri Üniversitesi, Sağlık Bilimleri Fakültesi, Kütahya, Selçuk Üniversitesi, Mimarlık ve Tasarım Fakültesi, Konya, Türkiye.	<i>DESIGN PROPERTIES OF PESHKIRS WITH ŞUKUFE MOTIF IN KOCAELİ ARCHEOLOGY AND ETHNOGRAPHY MUSEUM</i>
Tülay Gümüşer Serdar Menek Melek Yıldız		<i>PATTERNS DESIGN OF INTERIOR TEXTILES IN OTTOMAN MINIATURES</i>
Zakire Aliyeva dok.doç.	"National Academy of Sciences of Azerbaijan. Baku. Azerbaijan Institute of Literature Nizami Genjevi"	<i>"THE IMPACT OF OIL EXTRACTION SCIENTIFIC STUDIES ON THE LITERATURE"</i>
Səyyarə Məmmədova	Central Scientific Library of the Azerbaijan National Academy of Sciences	<i>CREATION OF THE PROFESSIONAL STANDARD "TEACHER LIBRARIAN" AND VOCATIONAL TRAINING OF SCHOOL LIBRARIANS</i>
Mülayim Emirli	Azərbaycan Ulusal Bilimler Akademisi Merkez Bilim Kütüphanesi, baş uzman	<i>PATRIOTIC PRINCIPLE OF YOUTH POLICY IN THE REPUBLIC OF AZERBAIJAN</i>
Assoc. Prof. Dr. Merve YILDIRIM	Giresun University Faculty of Fine Arts Graphic Design Department/	<i>USING ARTIFICIAL INTELLIGENCE IN ART AND DIGITAL INSTALLATIONS</i>
Assoc. Prof. Dr. Merve YILDIRIM	same	<i>Design Transformation of the Object in Digitalism</i>

TURKEY TIME: 10⁰⁰-12³⁰

DATE: 20.12.2021

HALL-5 / SESSION-1

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Doç. Dr. Özgür SAYGIN

Yerzhanova Alma Dr. Yerzhanov Mukhtar	<i>"PhD по экономике Турция (Denklik UAK, Ankara 2021) Ассоциированный профессор университета «Туран», Республика Казахстан доктор наук по учету и аудиту, профессор университета «Туран», Республика Казахстан"</i>	<i>МЕЖДИСЦИПЛИНАРНЫЕ МЕТОДЫ НАЛОГОВОГО АНАЛИЗА</i>
Kübra Sezen Asst. Prof. Dr. Murat Yorulmaz	<i>"Kocaeli University, Institutes of Natural Sciences, Department of Occupational Health and Safety, Master Student, Kocaeli, Turkey, Kocaeli University, Maritime Faculty, Maritime Business Administration,"</i>	<i>ANALYSIS OF RISKS AND OCCUPATIONAL ACCIDENTS IN PORT BUSINESSES</i>
Ahat AVCI İdris VARICI	<i>Ondokuz Mayıs University, Institute of Graduate Studies, Department of Business, Samsun, Turkey</i>	<i>RELATED PARTY SALES: AN ANALYSIS ON THE PROFITABILITY OF BUSINESSES OPERATING IN THE FOOD INDUSTRY IN BORSA ISTANBUL</i>
Mihai-Florentin Herciu	<i>Alexandru Ioan Cuza University of Iasi, Faculty of Economics and Business Administration Iasi, Romania</i>	<i>Evolution of regulations on non-financial reporting at international level</i>
Elif KARAKAŞ İdris VARICI	<i>Niğde Ömer Halisdemir University, Faculty of Economics and Administrative Sciences, Business, Niğde, Turkey Ondokuz Mayıs University, Faculty of Economics and Administrative Sciences, Business, Samsun,</i>	<i>FRAUDULENT FINANCIAL REPORTING AND ITS IMPACT ON ACCOUNTING INFORMATION QUALITY</i>
Mariam Chkhaidze Teona Gogidze	<i>Georgian Technical University</i>	<i>Artificial Intelligence Algorithm in Banking</i>
Phd. Iuliana UNGUREANU	<i>Doctoral School of Economics and Business Administration, "Alexandru Ioan Cuza" University of Iasi, Iasi, Romania.</i>	<i>THE EFFECT OF CORRUPTION ON FIRMS: A BIBLIOMETRIC ANALYSIS</i>
Doç. Dr. Özgür SAYGIN	<i>Kütahya Dumlupınar Üniversitesi İ.İ.B.F. Maliye Bölümü</i>	<i>7338 SAYILI YASA SONRASINDA BASİT USULDE VERGİLENDİRMEYE İLİŞKİN ELEŞTİRİLER</i>
PhD candidate. Karim HUSEYN-ZADA	<i>Baku State University (Azerbaijan)</i>	<i>INTERNAL MARKETING ACTIVITIES IN OUTDOOR TOURISM BUSINESSES</i>

TURKEY TIME: 13⁰⁰-15³⁰

DATE: 20.12.2021

HALL-1 / SESSION-2

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Prof. Dr. M.H. Hamdan

Saliha ERENTÜRK Bircan KÖSE Köksal ERENTÜRK	Atatürk Üniversitesi,Mühendislik Fakültesi, Kimya Mühendisliği Bölümü,Erzurum, Türkiye	"MİKRODALGA YÖNTEMİ İLE KURUTULAN PATLICANIN (SOLANOM MELONGENA) KURUMA DAVRANIŞININ MATEMATİKSEL MODELLENMESİ"
Saliha Erentürk Köksal ERENTÜRK	Atatürk Üniversitesi,Mühendislik Fakültesi	A RESEARCH ABOUT THE CONTENT AND USAGE AREAS OF THE MEDLAR PLANT (MESPIUS GERMANICA L.)
Skender Demaku Gani Kastrati Bahrije Dobra Jeton Halili	University of Pristina "Hasan Pristina", University for Business and Technology, Lagjja Kalabria	"ASSESSMENT OF CONTAMINATION WITH HEAVY METALS IN ENVIRONMENT: WATER, SLUDGE AND SOIL, AROUND KOSOVO POWER PLANTS"
Prof. Dr. M.H. Hamdan	Professor, Department of Mathematics and Statistics University of New Brunswick	Static Modelling of Oil Retention in Soil and Beach Sediments
Ümit Muhammet KOÇYİĞİT Feyza Nur ÇETİN Ebrar Büşra YILDIRIM	Cumhuriyet Üniversitesi	ACI KAVUN (ECBALLIUM ELATERIUM (L.) A. RICH.) BİTKİSİNİN KARBONİK ANHIDRAZ II IZOENZİM AKTİVİTESİNE ETKİSİNİN ARAŞTIRILMASI
Yasemin GÜNDOĞDU Serap YİĞİT GEZGİN Hamdi Şükür KILIÇ	Selçuk Üniversitesi, Kadınhanı Faik İçil MYO, Bilgisayar Teknolojileri Bölümü, Konya, TÜRKİYE Selçuk Üniversitesi, Fen Fakültesi, Fizik Bölümü, Konya, TÜRKİYE	Diagnostic Study on Lamb and Calf Colon Tissues Using Ti:Sapphire Femtosecond Laser Ablation for Biomedical Applications
Nikolay Tsandev Alina Furduy Genadi Kostadinov Ivaylo Stefanov Krasimir Kirilov Angel Vodenicharov	Trakia University, Faculty of Veterinary medicine, Stara Zagora, BULGARIA Trakia University, Faculty of Medicine, Stara Zagora, BULGARIA Trakia University, Faculty of Agriculture, Stara Zagora, BULGARIA	"Embedding of small biological objects into „NORSODYNE ® “ polyester resin – new opportunities for permanent preservation, examination and training"
Gizem KAMÇI Özlem TONÇER	Şırnak University, Faculty of Agriculture, Department of Agronomy, Şırnak,Turkey. Dicle University, Faculty of Agriculture, Department of Agronomy,Diyarbakir,Turkey	Microscopic Observations with Paraffin and Hand Cutting Method in Nigella damascena (Black Cumin) Plant
Suna OZBEK SANLI Prof. Dr. Osman SAĞDIÇ Öğr. Gör. Dr. Nur ÇEBİ	Yıldız Technical University, Chemical and Metallurgical Engineering Faculty, Food Engineering Department, Istanbul, Turkey.	ANALYSIS OF FATTY ACIDS AND STEROL COMPOSITION OF COLD-PRESSED OILS USING CHROMATOGRAPHIC ANALYSIS AND SPECTROSKOPIC METHODS
Tamer Üstüner Cebrail Saka	Kahramanmaraş Sütçü İmam University, Faculty Of Agriculture, Plant Protection Department, Turkey	DETERMINATION OF THE WEED SPECIES, DENSITY AND INCIDENCE FREQUENCY IN WATERMELON FIELDS OF KAHRAMANMARAS
Elena Skvortsova Oksana Filinskaya Anna Bushkareva Valentina Dorokhova Aleksandra Mostofina	Candidate of Biological Sciences, Docent, Head of the Department of Animal Science, Yaroslavl State Agricultural Academy, Yaroslavl	THE EFFECT OF PROBIOTICS ON THE DIGESTION OF QUAIL OF DIFFERENT AGE GROUPS

TURKEY TIME: 13⁰⁰-15³⁰

DATE: 20.12.2021

HALL-2 / SESSION-2

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Arta Kadriu PhD

Yasemin BAL Mert BAL	Yıldız Technical University, Faculty of Economics and Administrative Sciences, Yıldız Technical University, Faculty of Chemical and Metallurgical Engineering,	<i>THE ROLE OF HR ANALYTICS AND ARTIFICIAL INTELLIGENCE IN THE DEVELOPMENT OF DIGITAL HUMAN RESOURCES MANAGEMENT</i>
Elsana Aqifi Arta Kadriu	University of Tetova, North Macedonia	<i>THE IMPACT OF COVID 19 ON UNEMPLOYMENT</i>
Arta Kadriu PhD	University of Tetova, North Macedonia	<i>Cultural tourism as an important element in tourism industry</i>
Mahirə Əzizova	AMEA Mərkəzi Elmi Kitabxana	<i>DYNAMICS OF THE ECONOMIC LIFE OF DERBAND AFTER THE OCCUPATION OF THE RUSSIAN EMPIRE</i>
Dr. Bülent AYHAN Arş. Gör. Hasan Kaan KÜÇÜKERDEM Kazım TURGUT Ümran ATAY Prof. Dr. Hasan Hüseyin ÖZTÜRK	Adana Zirai Üretim İşletmesi Tarımsal Yayım ve Hizmetiçi Eğitim Merkezi Müdürlüğü İğdır Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü Zir.Yük.Müh., GAP Tarımsal Araştırma Enstitüsü Müdürlüğü Çukurova Üniversitesi, Ziraat Fakültesi Tarım Makinaları Ve Teknolojileri Mühendisliği Bölümü	<i>ENERGY USE IN AGRICULTURAL PRODUCTION IN EUROPEAN UNION COUNTRIES</i>
Dr. Bülent AYHAN Arş. Gör. Hasan Kaan KÜÇÜKERDEM Kazım TURGUT Ümran ATAY Prof. Dr. Hasan Hüseyin ÖZTÜRK	same	<i>SUSTAINABILITY FOR AGRICULTURAL PRODUCTION</i>
Sumru KÜÇÜKA Dr. Farid HUSEYNOV	"Gebze Technical University, Institute of Social Sciences, Department of Management, Gebze, Gebze Technical University, Faculty of Business Administration, Department of Management, Gebze, Kocaeli, Turkey."	<i>ACADEMIC STUDIES ON THE CUSTOMER REVIEWS IN ONLINE SHOPPING</i>

TURKEY TIME: 13⁰⁰-15³⁰

DATE: 20.12.2021

HALL-3 / SESSION-2

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Prof. Mehmet Akif ARVAS

Fatima Zahra Krimech	LBGIM, University Hassan II, ENS - Casablanca, Casablanca, Morocco	<i>Structure and dielectric behavior of Bi 1/2 Li 1/2 TiO 3 ceramics</i>
Prof. G.V. Benemanskaya Senior Researcher S.N. Timoshnev Prof. G.N. Iluridze Prof. T.A. Minashvili Dr. K.D. Davitadze Prof. A.V.Gigineishvili	Ioffe Institute of RAS, Russia, 194021, St-Petersburg, Georgian Technical University, Georgia,	<i>ELECTRONIC STRUCTURE OF THE ULTRATHIN K /AIN INTERFACE</i>
Mehmet Akif ARVAS Rafet AKDENİZ	Tekirdağ Namık Kemal Üniversitesi	<i>Practical Measurement of Solar Energy Efficiency for Sustainable Energy</i>
Dr. Joan Jani Msc Miren Kurtulaj	"Department of Physics Engineering, Faculty of Mathematics Engineering and Physics Engineering, Polytechnic University of Tirana Tirana, Albania."	<i>THE MAXWELL DISTRIBUTION OF MOLECULAR SPEEDS GENERATED BY MONTE CARLO SIMULATION TECHNIQUES</i>
E.R. Sallam, H.M. Khairy M.S. Elnouby H.A. Fetouh	National Institute of Oceanography and Fisheries (NIOF), Egypt b City of Scientific Research and Technology, Alexandria, Egypt c Department of Chemistry, Faculty of Science, Alexandria University, Egypt	<i>Sustainable electricity production from seawater using Spirulina platensis microbial fuel cell catalyzed by silver nanoparticles-activated carbon composite prepared by a new modified photolysis method</i>
Yeşim SANİYE KARA Berna YILDIZ (poster)	Kocaeli üniversitesi, Fen Ed. Fak. Kimya Bl. Kocaeli/Türkiye	<i>4-(SÜBSTİTÜE-FENİL)-6-METİL-3-FENİL-4H-1,2,4- OKSADİAZİN-5(6H)-ON BİLEŞİKLERİNİN 13 C NMR KİMYASAL KAYMA DEĞERLERİ ÜZERİNDE SÜBSTİTÜENT ETKİ ÇALIŞMASI</i>
Berna YILDIZ Yeşim SANİYE KARA (poster)	Kocaeli üniversitesi, Fen Ed. Fak. Kimya Bl. Kocaeli/Türkiye	<i>6-METİL-3,4-DİFENİL-4H-1,2,4-OKSADİAZİN- 5(6H)-ON BİLEŞİĞİNİN SENTEZİ VE YAPISINI AYDINLATILMASI</i>
Dr. Gamidov Elshad	АЗЕРБАЙДЖАНСКИЙ ГОСУДАРСТВЕННЫЙ ПЕДАГОГИЧЕСКИЙ УНИВЕРСИТЕ	<i>КРАЕВОЙ ЗАДАЧЕ ДЛЯ ОПЕРАТОРНО ДИФФЕРЕНЦИАЛЬНЫХ УРАВНЕНИЙ ВТОРОГО ПОРЯДКА</i>
N.D.Mazouzi K. Boutemak A. Haddad Y. Chegreouche	Functional Analysis Laboratory, Department of Process Engineering University of Saad dahlab Blida -1-, Algeria. b Corrosion Laboratory, Industrial Technology Research Center, Algiers, Algeria.	<i>Development and characterization of a film based on Hydroxypropyl methyl cellulose (HPMC) incorporate by a phenolic extract of feunouil and reinforced by Magnesium Oxide (MgO). IN VIVO - IN VITRO</i>

TURKEY TIME: 13⁰⁰-15³⁰

DATE: 20.12.2021

HALL-4 / SESSION-2

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Prof. Dr. Monica GAROIU

IRIN SULTANA	Lecturer, Department of English King Khalid University, KSA	<i>Treatment of Marxism and American Depression in Clifford Odets's Waiting for Lefty</i>
Dr. Murat KARTAL	İstanbul Üniversitesi, Sosyal Bilimler Enstitüsü	<i>EFFECTS OF SYRIAN IMMIGRANTS ON TURKISH ECONOMY</i>
Prof. Dr. Nurettin GÜLMEZ	Manisa Celal Bayar Üniversitesi Fen Edebiyat Fakültesi Tarih Bölümü	<i>AN EVALUATION ON DEPUTIES OF ERZİNCAN IN THE GRAND NATIONAL ASSEMBLY OF TURKEY (1920-2018)</i>
Professor Amanbay Seitkasymov		<i>Как исследуется трагедия сталинских лет в Акмолинской области: задачи и ключевые вопросы</i>
Hafiz CALIL	Academy of Public Administration of the Republic of Azerbaijan, Faculty of Political Management, International law, master	<i>FACTOR OF FORCE AND USE OF FORCE IN INTERNATIONAL LAW IN THE CONTEXT OF THE SECOND KARABAKH WAR</i>
Zuriya QARAYEVA	Administrative Academy of Azerbaijan, Political science, Baku, Azerbaijan.	<i>STRUCTURAL CHANGES IN TURKEY IN ACCORDANCE WITH THE PRESIDENTIAL SYSTEM</i>
Prof. Dr. Monica GAROIU	University of Tennessee-Chattanooga, USA	<i>ASSIA DJEBAR: A FEMININE RESPONSE TO COLONIAL HISTORIOGRAPHY</i>
VORYA SHABRANDI	Knowledge of Master of International Relations University of Guilan University	<i>THE ROOT OF THE AND LOOTING ECONOMY (POVERTY AND INEQUALITY) IN IRAN AFTER THE 1979 REVOLUTION, FROM THE PERSPECTIVE OF ACEMEOGLU & ROBINSON THEORY</i>

TURKEY TIME: 13⁰⁰-15³⁰

DATE: 20.12.2021

HALL-5 / SESSION-2

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Şəfəq Əliyeva, Fil.ü.f.d.

Dr. Melek ÇUBUKCU	Çukurova Üniversitesi, Fen Edebiyat Fakültesi, Türk Dili ve Edebiyatı Bölümü, Adana,	<i>SEPARATE WRITTEN FEATURE ON THE ATEBETU'L- HAKAYIK SAMARKANT COPY - "ATEBETL' L-HAKAYIK TEXT PUBLICATION"WITH COMPARISON OF FOOTNOTES-</i>
AYDİL BAHAR YILMAZ	İSTANBUL AYDIN ÜNİVERSİTESİ LİSANSÜSTÜ EĞİTİM ENSTİTÜSÜ, İNGİLİZ DİLİ VE EDEBİYATI	<i>A PSYCHOANALYTICAL STUDY ON WILLIAM SHAKESPEARE'S ANTONY AND CLEOPATRA THROUGH CARL GUSTAV JUNG'S ARCHETYPES</i>
Şəfəq Əliyeva Fil.ü.f.d.	AMEA Mərkəzi Elmi Kitabxana	<i>Book collection of the founder of Azerbaijani numismatics Yevgeny Alexandrovich Pakhomov - as a valuable scientific source</i>
Hikmet ZELYURT Osman OSMANOĞLU	İnönü University, Faculty of Education, Department of Basic Education, Malatya, Turkey	<i>AN EXAMINATION OF HAND-TO-HOME PRESCHOOL EDUCATION BOOKS ACCORDING TO TEACHER'S OPINIONS FOR SOME FEATURES</i>
Dr. Metin TAYTAŞ	Ministry of National Education Hüsrev Pasha Primary School. Van	<i>INVESTIGATION OF THE RELATIONSHIP BETWEEN THE SPECIAL EDUCATION COMPETENCIES OF GUIDANCE COUNSELORS AND DECENCY LEVELS</i>
Jamila AKHUNDZADE	Baku State University, International communication, Baku, Azerbaijan	<i>COMPARATIVE ANALYSIS ON IMPACT OF SECOND KARABAKH WAR ON SOCIAL-CULTURAL AND LITERATURE ASPECTS</i>
AHADOVA GUNEL TOFIG GIZI	Master of "Librarianship and information" faculty of Baku State University Chief specialist of the department "Azerbaijan studies and National Digital Memory" of ANAS CSL, Baku, Azerbaijan	<i>THE ANALYSIS OF TURKISH LITERATURE IN THE HERITAGE OF TURKOLOGICAL SCIENTISTS PROTECTED IN THE CENTRAL SCIENTIFIC LIBRARY (TRADITIONAL AND ELECTRONIC BASE)</i>
SAFAROVA AYGUN KAMRAN GIZI	Doctorant of "Librarianship and information" faculty of Baku State University Head of the department "Azerbaijan studies and National Digital Memory" of ANAS CSL	<i>THE RELATIONSHIP OF THE CENTRAL SCIENTIFIC LIBRARY STAFF WITH THE LIBRARIES OF THE REPUBLIC OF TURKEY ON THE CONTEXT OF THE DIGITAL PLATFORM</i>

TURKEY TIME: 16⁰⁰-18³⁰

DATE: 20.12.2021

HALL-1 / SESSION-3

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Prof. Dr. Ayşe Gül Mutlu

Sultan Ali Fakiha Akhtar Sidra Chaudhry Muhammad Shahid Mahmood Rizwan Aslam	Institute of Microbiology, University of Agriculture, Faisalabad, Pakistan.	<i>Seroprevalence of Feline Immunodeficiency and Feline Leukemia Viruses and their Association with Risk Factors in Cats from Faisalabad, Pakistan</i>
Chaudhary Muhammad Ayyub Mazhar Abbas Muhammad Nouman Akram Mujahid Ali Saqib Ayyub	Institute of Horticultural Sciences, University of Agriculture, Faisalabad- Water Management Research Farm, Renala Khurd	<i>EFFECT OF BIO STIMULANTS ON THE GROWTH OF EGGPLANT (SOLANUM MELONGENA L.) GROWN UNDER NACL INDUCED SALINITY</i>
Uzma Ayaz	Department of Plant Breeding and Molecular Genetics, University of Poonch Rawalakot, Pakistan	<i>Investigation of genetic divergence in local sunflower hybrids and inbred lines by applying morphological markers</i>
Muazzez Tıkırdık, MSc Prof. Dr. Ayşe Gül Mutlu	Suleyman Demirel University, Histology and Embriology, Burdur Mehmet Akif Ersoy University, Molecular Biology and Genetics	<i>THE EFFECT OF ELLAGIC ACID ON TELOMERASE ENZYME ACTIVITY</i>
Prof. Dr. Ayşe Gül Mutlu Aykut Topal, MSc	same	<i>THE RELATIONSHIP OF "TELOMERASE ACTIVITY - DOSE" IN TELOMERASE ACTIVITY MODIFICATION STUDIES</i>
Waqas Ahmad	"Department of Agronomy, Faculty of Agricultural Sciences and Technology, Bahauddin Zakariya University Multan, Pakistan. "	<i>Screening of wheat (Triticum aestivum L.) cultivars for terminal heat stress tolerance by using biochemical pointer</i>
Gülçin AY ÖZKAN Doç. Dr. Ayşe Gülgün ÖKTEM	Harran Üniversitesi Ziraat Fakültesi	<i>MISIR BİTKİSİNE (Zea mays L. indentata) UYGULANAN YARASA GÜBRESİNİN VERİM UNSURLARINA ETKİSİ</i>
Yacine Chenene Sidi Mohamed Ounane	High National School of Agronomy, Plant Production Department, Laboratory for Vegetal Production, El Harrach, Algiers, Algeria.	<i>Understanding the interspecific interactions in durum wheat-chickpea intercrops: productivity benefits, species complementarity and competition in different spatial arrangements</i>
Prof. Dr. Mehmet ÖZ	Bursa Uludag University, Mustafakemalpaşa Vocational School, 16500 Mustafakemalpaşa, Bursa, Turkey	<i>EXAMINATION OF PROTEIN, OIL AND FATTY ACID CONTENTS OF SOME SESAME (SESAMUM INDICUM L.) GENOTYPES GROWN IN TURKEY</i>

TURKEY TIME: 16⁰⁰-18³⁰

DATE: 20.12.2021

HALL-2 / SESSION-3

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Dr. Simge AKSU

Simge AKSU	<i>Yozgat Bozok Üniversitesi, İletişim Fakültesi, Halkla İlişkiler ve Reklamcılık Bölümü, Yozgat,</i>	<i>Küresel Pandemi Söylemine Karşın Muhalif Söylemler: "Her Açıdan" Televizyon Programının İzleyici Kitlesi Üzerinde Bir İnceleme</i>
Gülistan YALÇIN	<i>Aksaray University, Education Faculty, Special Education, Aksaray, Turkey.</i>	<i>"INVESTIGATION of POSTGRADUATE THESES on INDIVIDUALS with VISUAL IMPAIRMENT in THE FIELD of SPECIAL EDUCATION in TURKEY"</i>
Ozgur DEMIRTAS Ebru AYKAN Sermed DOGAN	<i>Kayseri University, Develi Faculty of Social Sciences and Humanities, Health Management Department, Kayseri, Turkey</i>	<i>A BIBLIOMETRIC ANALYSIS FOR THE FIELD OF ETHICAL LEADERSHIP</i>
Mgr. Maryna KHLOPOK Dr.ing. Adam KOLINSKI	<i>Łukasiewicz Research Network - Institute of Logistics and Warehousing, Poznan, Poland.</i>	<i>CROSS-BORDER E-COMMERCE CHALLENGES</i>
Ebru AYKAN Ozgur DEMIRTAS Sermed DOGAN	<i>same</i>	<i>RELATIONSHIP VOICE BEHAVIOR WITH SERVANT LEADERSHIP</i>
Dr. Selçuk GÜRÇAM	<i>İğdır İl Özel İdaresi, İğdır, Türkiye</i>	<i>ANOTHER SIDE OF CLIMATE CHANGE: CHILDREN</i>
Şerife Gülsüm DEMİR Mehmet RİZELİOĞLU Turan ARSLAN	<i>Bursa Uludag University, Faculty of Engineering, Department of Civil Engineering, Bursa, TURKEY</i>	<i>THE EFFECT OF COVID-19 PANDEMIC ON TRAVEL PREFERENCES: BURSA EXAMPLE</i>
Akkara Sherine J Supriya Joseph Vijayaraj K Kavitamizh M	<i>Hindustan Institute of Technology and Science, English Department, Chennai, Tamil Nadu, India</i>	<i>Exploring Podcast as an Essential Tool for the Legal Class to Improve their Speaking Skills</i>
Ayşenur Erdil	<i>"Istanbul Medeniyet University, Faculty of Political Sciences, Department of Business, Istanbul, Turkey"</i>	<i>Data Envelopment Analysis and Its Importance: An Application in Business</i>
Ayşenur Erdil	<i>same</i>	<i>Sustainability of Wind Energy from Renewable Energy Sources</i>

TURKEY TIME: 16⁰⁰-18³⁰

DATE: 20.12.2021

HALL-3 / SESSION-3

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Assoc. Prof. Dr. Nadir BENDALI

Arsen Ahmed Mohammed Doç. Dr. HÜSEYİN DEMİREL	Electrical department, College of Engineering, Kirkuk University, Kerkuk, Iraq. Kerabuk uni. Engineering Faculty, Electrical dep	<i>LOW POWER DESIGN UNIVERSAL CMOS ACTIVE FILTER</i>
Assoc. Prof. Dr. Nadir BENDALI	"1 Faculty of Science and Technology, University of Khemis Miliana, Road of Theniet El Had, Khemis Miliana, 44225, Algeria 2 Structural Mechanics Research Laboratory, Department of Mechanical Engineering, University Blida-1, Algeria."	<i>OPTIMAL MOVEMENTS FOR TWO REVOLUTE PLANAR ROBOT UNDER DYNAMIC CONSTRAINTS WITH SQP TECHNIQUE</i>
Sinem DULLUC Cem GOCEN Ismail AKDAG Merih PALANDOKEN	İzmir Katip Çelebi Üniversitesi, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği	<i>SMART FACTORY MANAGEMENT INFORMATION SYSTEM</i>
Cem GOCEN Sinem DULLUC Ismail AKDAG Merih PALANDOKEN	same	<i>2.45 GHz BAND Wi-Fi and IoT APPLICATIONS ANTENNA DESIGN PREDICTION OF OPERATING PARAMETERS WITH MACHINE LEARNING TECHNIQUES</i>
Ömer Selim YAŞA Ismail AKDAG Cem GOCEN Merih PALANDOKEN	Same	<i>ESTIMATION OF THE RETURN LOSS PARAMETERS OF UHF RFID READER ANTENNA WITH MACHINE LEARNING TECHNIQUES</i>
Ömer Selim YAŞA Ismail AKDAG Cem GOCEN Merih PALANDOKEN	same	<i>GRAPHICAL USER INTERFACE DESIGN AND IMPLEMENTATION FOR PRODUCT TRACKING APPLICATION WITH RFID SYSTEM</i>
Assoc. Prof. Habib GURBUZ Himmet Emre AYTAC Huseyin Cahit HAMAMCIOGLU RA Husameddin AKCAY	Süleyman Demirel Üniversitesi Mühendislik Fakültesi, Otomotiv Mühendisliği Bölümü, Isparta, Türkiye.	<i>AN EXPERIMENTAL STUDY ON STORING EXHAUST WASTE HEAT ENERGY OF A SI ENGINE USING PHASE CHANGE MATERIAL</i>
Özgün Ok İrem Mete Dr. Muhammet Fatih Ak	Antalya Bilim University, Engineering Faculty, Industrial Engineering, Antalya, Türkiye	<i>Manufacturing Process Improvement Using Lean Manufacturing Tools: A Case Study in an Automotive Company</i>
Fatma Gül DEDE Fatih KARPAT	Bursa Uludag University, Faculty of Engineering, Mechanical Engineering,	<i>A REVIEW ON STEEL-COMPOSITE HYBRID GEARS</i>
Hakan BİÇER Hasan Serhan YAVUZ	Eskişehir Osmangazi Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü,	<i>IMAGE STICHING BY USING SIFT, SURF, ORB and BRISK</i>

TURKEY TIME: 16⁰⁰-18³⁰

DATE: 20.12.2021

HALL-4 / SESSION-3

Meeting ID: 812 2134 1079 | Passcode: 121212

MODERATOR: Prof. Dr. Hamdi Şükür KILIÇ

Zohre Kurt Ariel Grey Jose Fabrega Alexander Coles	INDICASAT Panama , Universidad Technologia de Panama, Florida State University of Panama, Middle East Technical University Turkey	<i>The use of natural sources for drinking water in rural areas of Panama</i>
Mustafa F. Hasan Hanifi Canakci	"Department of Civil Engineering, Erbil Polytechnic University, 44001, Erbil, Iraq 2 Department of Civil Engineering, Gaziantep University, 27310, Gaziantep, Turkey"	<i>Volume change assessment of full-Scale soilcrete Column constructed in Organic Soil</i>
Prof. Dr. Rıfat Akbıyıklı Gökalp KARAÇAM	Duzce University, Faculty of Engineering, Department of Civil Engineering, Duzce, Turkey.	<i>"SELECTION OF THE MOST RELIABLE COMPANY IN THE CONSTRUCTION SECTOR IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY USING AHP AND TOPSIS"</i>
Onur Dönmez Mehmet Turan Demirci	Selçuk University, Institute of Science And Technology, Metallurgical and Materials Science Engineering, Konya, Turkey.	<i>INVESTIGATION OF THE MECHANICAL BEHAVIOURS OF CHOPPED BASALT IBER REINFORCED CARBON/ALUMINUM HONEYCOMB SANDWICH COMPOSITE PANELS UNDER COMPRESSION LOAD</i>
İrem PALABIYIK Gökben ERYILMAZ	FG Tekstil Konfeksiyon San. Tic. A.Ş. / R&D Center, İzmir, Turkey.	<i>BRING HYGIENIC PROPERTIES BY BIOCIDAL APPLICATION TREATMENT FOR DENIMS PRODUCED WITH SUSTAINABLE WASHING TECHNIQUE</i>
Assoc. Prof. Dr. Hüseyin DEMİREL Eng. ZHIYAR TAHİR	Karabük University, Engineering Faculty, Electronic and Electrical engineering, Karabük,	<i>Automatic Post Receiver Box</i>
Batuhan KARAÇAL Can Bülent FIDAN	Karabük Üniversitesi, Lisansüstü Eğitim Enstitüsü, Mekatronik Mühendisliği, Karabük, Türkiye.	<i>CLUSTERING AND SWARM CONTROL IN UNMANNED AERIAL VEHICLE</i>
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**ACCESSIBLE AND DIGITALIZED CULTURAL HERITAGE FOR PERSONS WITH
DISABILITIES**

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SUMMARY

Nowadays, the management and protection of cultural archaeological heritage is unthinkable without an active participation of the general public. The days when archaeology was a discipline and technique comprehensible to a narrow academic circle, sponsored exclusively by national or international funding bodies are over. Archaeology and archaeological cultural heritage should be reachable and accessible to different profiles including to persons with special needs: people with impaired vision or hearing and intellectual disabilities.

Within the Erasmus+ KA203 project named AD HOC (Accessible and Digitized Heritage of Culture) we created a strategic partnership in the field of higher education with the purpose to create and share innovative practices in the digitalization of the cultural heritage and its accessibility for persons with disabilities. We managed to bring archaeological cultural heritage closer to the public, including different categories of the population, through on-line courses. Through the project activities the awareness of the value and importance of archaeological heritage among the general public is raised and the field of archaeology and conservation science is popularized. Through this project we managed to: Digitize cultural heritage in formats accessible to all and hence enable on-line and distance learning as well as long life learning; To foster quality improvements and excellence in innovation at the high education institution level through enhanced transnational cooperation between education and training providers and other stakeholders; and To promote the cultural heritage and its values among persons with disabilities and improve their level of key competences and skills, in particular with relevance to the labor market and their contribution to a cohesive society.

Keywords: Cultural heritage, disability, digitization, Erasmus+

INTRODUCTION

The aim of the AD HOC project (Erasmus+ KA203 project)¹ is to create a strategic partnership in the field of higher education with the purpose to create and share innovative practices in the digitalization of the cultural heritage and its accessibility for persons with disabilities. The general goal of this project is to bring archaeological cultural heritage closer to the public, including different categories of the population, preferably through on-line courses. Through the project activities the awareness of the value and importance

¹ Ref. number 2019-1-MK01-KA203-060269

of archaeological heritage among the general public is raised and the field of archaeology and conservation science is popularized.

The following intellectual outputs (IOs) were envisioned within the frames of this project:

IO1 – Field and desk-top research to define least accessible archaeological and cultural heritage. A field and desk-top research was conducted in the coordinator’s and partner countries with the purpose to define which aspects of the archaeological cultural heritage can be digitalized and made accessible to the wider population including persons with disabilities. Each of the participant countries conducted this research within their settings and defined which aspects are least accessible. Within this intellectual output the parameters for digitalization of certain types of cultural archaeological heritage were set. This paper will show the results gained from the field research.

IO2 – Digitization of archaeological cultural heritage. The research conducted in IO1 generated content ready and prepared for digitization. This selected content from the coordinator country and the partner countries was digitized in the following project stages. A special platform was created and filled with archaeological cultural content from all the countries.

IO3 – Accessibility of the digitalized archaeological cultural heritage. At this stage we adapted the digitized archaeological and cultural heritage content for students with disabilities: vision and hearing impairments and intellectual disabilities. Making archaeology and cultural heritage more accessible to marginalized groups has been a major trend in countries with a long archaeological tradition.

IO4 – Creation of on-line courses for archaeological cultural heritage for the wider public including persons with disabilities.

RESEARCH METHODOLOGY

Research methodology is a strategy that “silhouettes our choice and use of specific methods relating them to the anticipated outcomes (Crotty, 1998). As in all studies the research methodology is based on the research problem, its types and its features (Noor, 2008).

Within this study, we decided on a **mixed method research**, on a combination of qualitative and quantitative research methods. Mixed-method designs are defined as including at least one quantitative method (designed to collect numbers) and one qualitative method (designed to collect words), where neither type of method is inherently linked to a particular inquiry paradigm or philosophy (Caracelli&Greene, 1993).

The most common and well-known approach to mixing methods is the Triangulation Design (Creswell, Plano Clark, et al., 2003). The purpose of this design is “to obtain different but complementary data on the same topic” (Morse, 1991, p. 122) to best understand the research problem. The intent in using this design is to bring together the differing strengths and nonoverlapping weaknesses of quantitative methods (large sample size, trends, generalization) with those of qualitative methods (small N, details, in depth). This design is used when a researcher wants to directly compare and contrast quantitative statistical results with qualitative findings or to validate or expand quantitative results with qualitative data.

The core characteristics of a well-designed mixed methods study include the following:

- Collecting and analyzing both quantitative (closed-ended) and qualitative (open-ended) data.
- Using rigorous procedures in collecting and analyzing data appropriate to each method’s tradition, such as ensuring the appropriate sample size for quantitative and qualitative analysis.
- Integrating the data during data collection, analysis, or discussion.
- Using procedures that implement qualitative and quantitative components either concurrently or sequentially, with the same sample or with different samples.
- Framing the procedures within philosophical/theoretical models of research, such as within a social constructionist model that seeks to understand multiple perspectives on a single issue—in this case how students and persons with disabilities enjoy cultural heritage or what barriers they face during this process.

Conducting high-quality mixed methods studies requires a multidisciplinary team of researchers who, in the service of the larger study, were open to methods that may not have been in their area of expertise. The multidisciplinary team was consisted of archeologists, special educators, IT experts, historians.

The **research subject** in this study was oriented towards defining least accessible archeological sites in North Macedonia, Greece, Italy and Slovenia. In order to do that we conducted a desk-top analysis (not shown in this paper because of its extensiveness) in all four countries-participants in the project. Here, the insights of students with disabilities were of enormous value. Hence, we decided to incorporate a quantitative field research as a continuation of this qualitative desk-top study. With the compiled data and knowledge of this two approached we moved towards the **research goal** of this study – to define least accessible sites, to define the barriers for students with impaired hearing, impaired vision, physical disabilities and so on, and to create suggestions on how we can improve the archeological experience for these categories of persons with disabilities.

For the quantitative part we used **stratified purposeful sampling**. In this type of sampling the researcher wants to ensure that certain cases varying on preselected parameters are included. Although this kind of sampling is— from a probability sampling standpoint—statistically nonrepresentative (Troost, 1986), it is, from a purposeful sampling standpoint, informationally representative. Each case represents a prespecified combination of variables, the distinctive confluence of which is the focus of study. The respondents were children and youth with and without disabilities that could give us an insight in their experiences related to archaeological and cultural heritage.

Mixed research studies contain 13 steps - each of which occur at one of the following three phases of the mixed research process:

- Research conceptualization (i.e., determining the mixed goal of the study, formulating the mixed research objective, determining the rationale of the study and rationale for mixing quantitative and qualitative approaches, determining purpose of the study and the purpose for mixing quantitative and qualitative approaches, determining the mixed research question),
- research planning (i.e., selecting the mixed sampling design, selecting the mixed research design),
- and research implementation (i.e., collecting quantitative and qualitative data, analyzing the quantitative and qualitative data, legitimating the data sets and mixed research findings, interpreting the mixed research findings, writing the mixed research report, reformulating the mixed research questions).

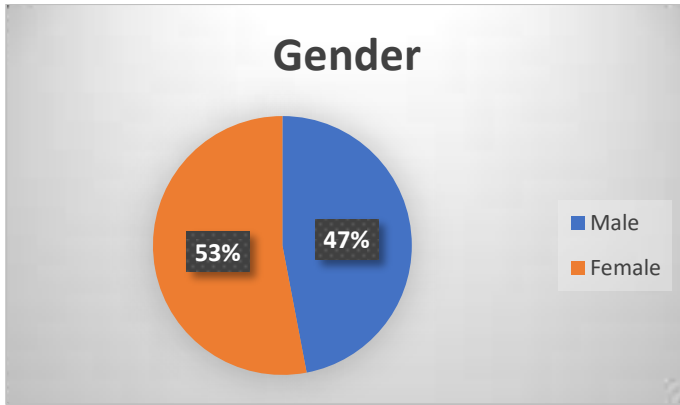
Of these 13 steps, analyzing **data** in a mixed research study potentially is the most complex step because the researchers involved has to be adept at analyzing both the quantitative and qualitative data that have been collected, as well as integrating the results that stem from both the quantitative and qualitative analysis “in a coherent and meaningful way that yields strong meta-inferences (Onwuegbuzie & Combs, 2010, p. 398).

Searching for the rationale/purpose for conducting the mixed analysis we decided for a **triangulation** approach where the quantitative findings are compared with the qualitative results.

FINDINGS

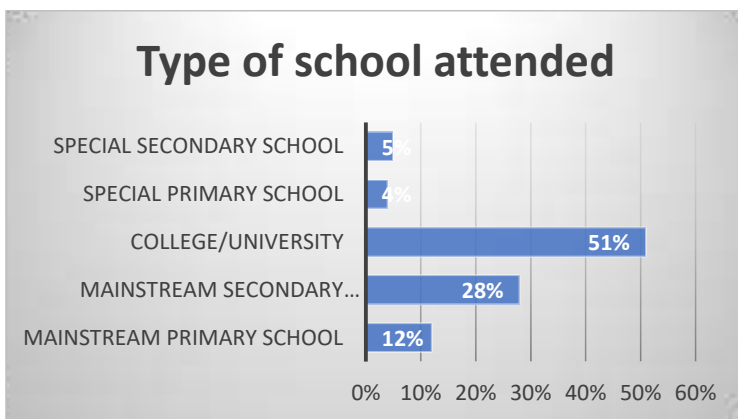
Initially, the researchers from the country-coordinator of the AD HOC project, and its partners decided on a qualitative approach for the field research. The goal was to make semi-structured interviews with persons with disabilities from all age groups that would be primary and secondary users of this accessible system for digitalized archeological heritage. Unfortunately, because of the COVID-19 crisis and the events related (overall school shut down, particularly in the schools in the above mentioned countries) it was decided for an online approach and in several cases, phone communication or video conferencing. The respondents were given an inquiry with closed and open ended questions. The sample was consisted of 100 respondents, students from primary, secondary schools and colleges, with and without disabilities. Below are the results from the analysis.

Demographic analysis of the data



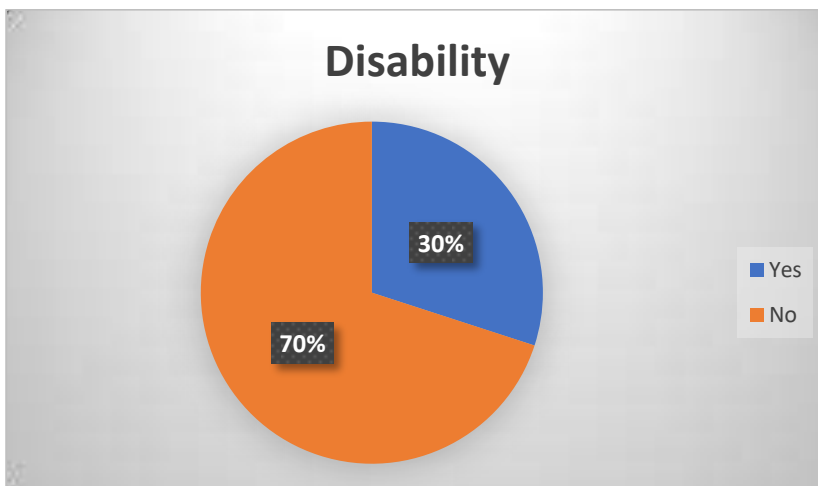
Picture 1. Gender of respondents

Within this research, 53 (53%) respondents were female, and 47 respondents (47%) were male. Gender equality was one of the prerequisites of this research.



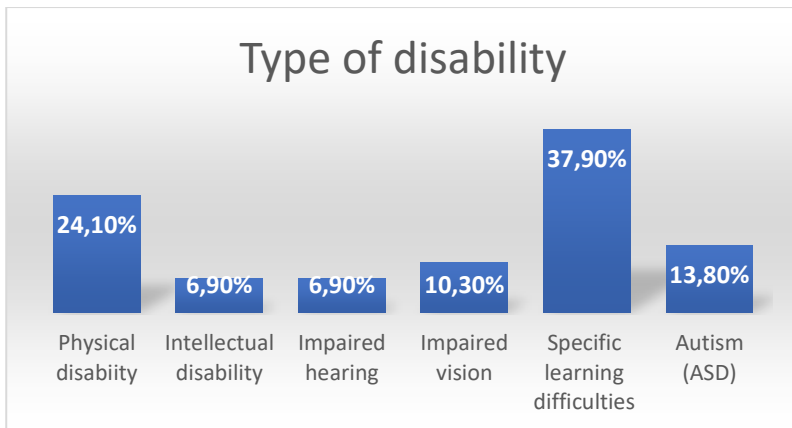
Picture 2. Type of school attended by the respondents

Twelve percent of the respondents were attending mainstream primary schools. Mainstream secondary students were 28% of them while 51% attended a college or University. Four percent were attending a special primary school and 5% were attending a special secondary school.



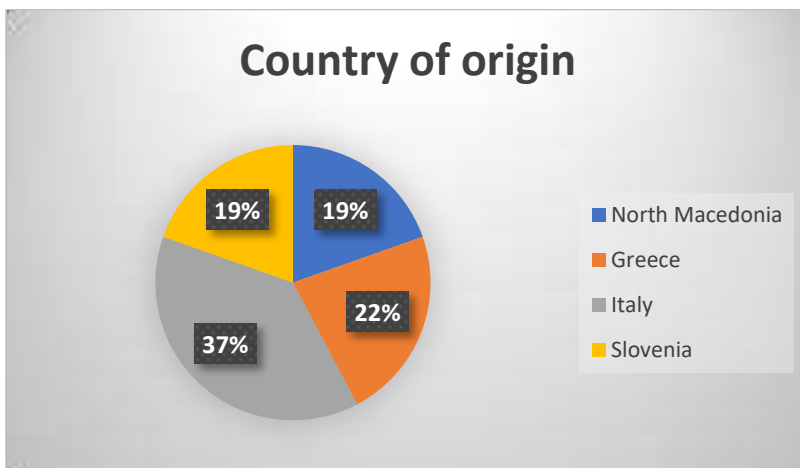
Picture 3. Presence of disability or special needs

This chart shows the presence of some type of disability or/and special needs in the respondents. From 100 respondents, 30% had some type of disability while 70% did not have any special educational needs.



Picture 4. Type of disability (if any) in the respondents

From the 30 respondents in this study which had some of disability: 24,1% were physically disabled, 6,9% were intellectually disabled, 6,9% were hearing impaired, 10,3% were visually impaired, 37,9% had specific learning difficulties such as dyslexia and 13,8% had autism of autism spectrum disorder.

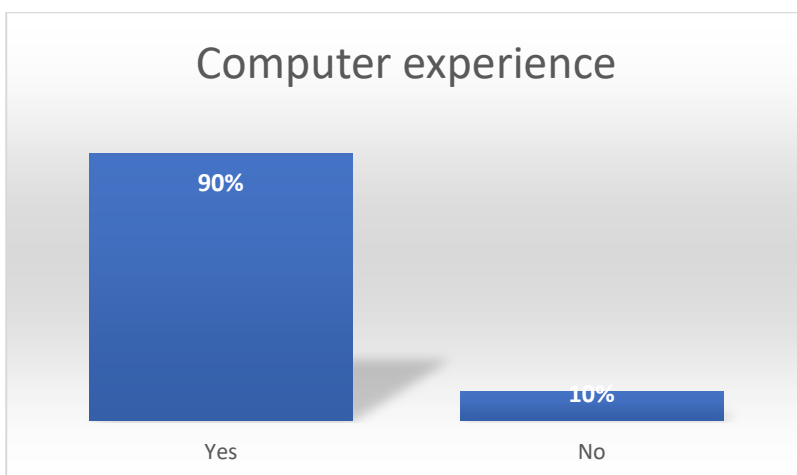


Picture 5. Country of origin of the respondents

The largest number of respondents came from Italy (37%). From North Macedonia and Greece, we had 19 respondents from each country. Twenty-two respondents were from Greece.

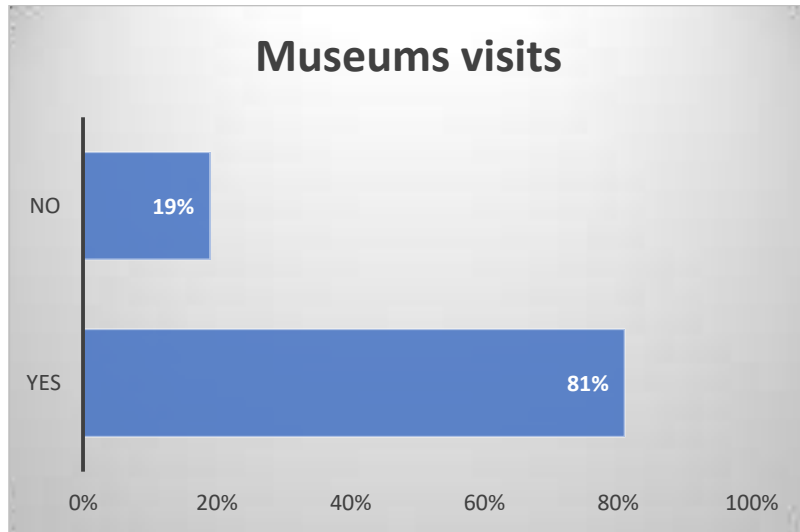
Analysis of results

In the following section the accessibility related questions are discussed and analyzed.



Picture 6. Computer experience of the respondents

Our research showed that 90% of the examinees had some types of computer experiences, used a PC or laptop before for searching different content on the net. Ten respondents did not have any computer experience but they were the youngest in this research and not yet computer literate.



Picture 7. Visits to museums

A large number of the respondents were interested in sharing experiences during their visits to the museums. 81% of them had visited or frequently visit museums. Only 19% of them have never been to museums. These 18% all had some type of disability, mostly visual impairment. The inaccessibility of museums has limited them in enjoying the archeological and cultural heritage of their country.

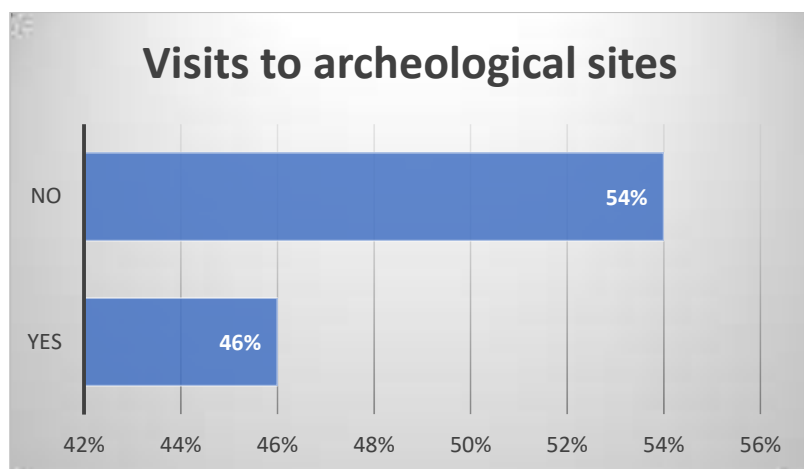
The following question was an open ended question. The respondents were asked to share which type of museums they most frequently go to.

Table 1. Types of museums most frequently visited

Types of museums	Number of respondents
History museums	15
Vatican museum, Egyptian museum of Turin, Capitoline museums	5
Regional museum in Koper	1
Archaeological museums	18
Art museums	13
All types of museums	24
Only museums that are accessible	4
Don't know the type of museum they visited	10
Did not answer	10

Ten persons did not answer. Ten respondents said that they do not know the type of museum they visited (they were severely disabled). Fifteen respondents mentioned that they go to history museums. Five respondents noted that they go only to the Vatican museum, Egyptian museum of Turin and Capitoline museums. Twenty respondents go to archeological museums. Twenty-five respondents mentioned that they

go to art museums. Nine persons stated that they do not go to museums. Thirty persons mentioned that they visit all types of museums: archaeological, historical, art museums, local museums, natural history, science museums. One person noted that he visits the regional museum in Koper, Slovenia. One person mentioned that she visits only museums which have an accessibility ramp.



Picture 8. Visits to archeological sites

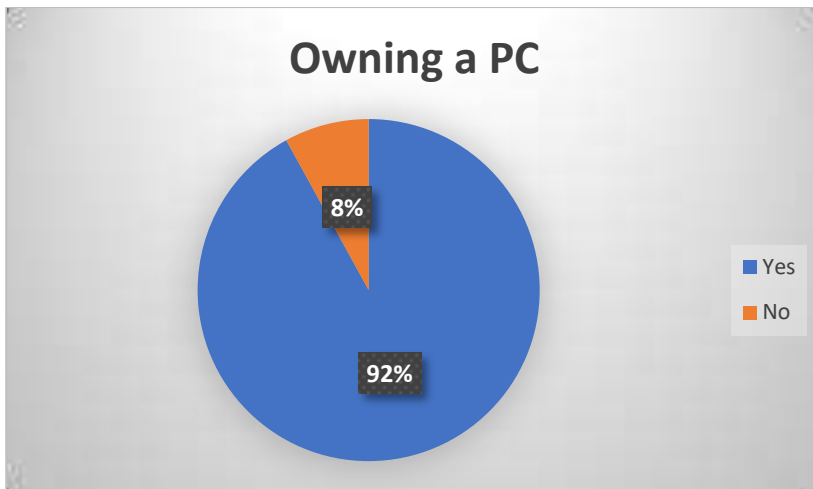
The next table shows the percentage of respondents that visit archeological sites. Only 46% have visited or are constantly visiting archeological sites. The remaining 54% are not able to visit sites such as these, specifically because they are not accessible for persons with different types of disabilities.

The following question was also open-ended. It resulted with a wide discussion about concrete least accessible sites described below.

Table 2. Least accessible archaeological sites

Least accessible archaeological sites	Number of respondents
Are not informed	29
Very few are accessible	25
None	38
Accessible physically but not on a cognitive and emotional level	1
Accessible are the recent ones	1
No difficulty in accessing archeological sites	2
No answer	4

Twenty-nine respondents were not informed regarding the accessibility of archaeological sites. According to 25 respondents, very few of the sites are accessible. Thirty-eight believe that none of the archeological sites near them are accessible. As least accessible sites, the respondents shared the following: Civita di Bagnoregio, Roman Amphitheatre in Albano Laziale, Villa Gregoriana, Grotte di Stiffe, Palace of the Grand Master of the Knights of Rhodes, Santuario della Fortuna Primigenia, catacombs of San Zotico, San Simon, Izola, Nebregovo, Koper, Ajdovski Gradec and Potočka Zijalka, Cave Divje babe, Betalov archeological site near Postojna, Villa Magna, Foro Romano and Palatino in Rome, Archaeological Museum of Chios, Piramida Maribor, Graia's Castle in Chios, Emporios - Mavra volia, Divje babe - cave site, Emborio, Mavra Volia, Il ninfeo di Egeria, Korte (Izola), Domus Aurea, Akropolis, Socerb.



Picture 9. Owning a personal computer or lap-top

From the picture shown above, it can be stated that the largest portion of respondents do own a personal computer or laptop, 92% of them claim that they have a PC and only 8% have stated that they do not own a PC or laptop.



Picture 10. Searching archaeological content online

From the picture above it can be noted that 52% of all respondents search for archaeological content online, which is a large percentage bearing in mind that many of them have disabilities and that also not all respondents are related in any way to the field of archeology or cultural heritage. The remaining 48% have stated that they do not search for archeological content online.

The following question was also an open-ended question: types of archeological information that persons with and without disabilities can get online. Below is the discussion and most common answers.

Table 3. Types of archaeological content that can be found online

Types of archaeological content that can be found online	Number of respondents
History	12
Monuments	5
I don't visit archeological sites	10
Description of places and location	11

Current exhibitions	5
Minimal data	7
Prices for visits	16
Stories	4
Everything	20
School related info	5
Didn't answer	5

Twelve persons stated that they usually find history-related materials online, five of them look for monuments. Ten persons do not search or visit archeological sites. Eleven search for the description of places and locations, while five search for current exhibitions. Seven respondents stated that they can only find minimal data, while sixteen only search for the prices of the visits. Four of them search for stories, and twenty stated that they can find everything online. Five stated that they only search for school related info and five didn't answer. For the students this searching is very difficult because there are pictures and the text-to-speech reader cannot read the content.

The next open-ended question is related to problem that the respondents encounter while they are visiting a certain web-page related to cultural and archeological heritage. The discussion and answers are below.

Table 4. Problems while visiting web-pages

Problems while visiting web-pages	Number of respondents
None	25
Internet problems	19
Not easy to navigate/bad TTS reader	23
Language	12
Outdated	10
Chronology problems	1
Spam	1
Too much information, no structure	3
Clutter	2
Not interesting enough	4

Regarding this question, 25 respondents stated that they have no problems with the web-pages. None of them were disabled. Nineteen have internet problems. Twenty-three mentioned that they find the web-pages not easy to navigate or they have a bad text-to-speech reader. Twelve stated that the language is incomprehensible, ten that the web-pages are outdated. One stated that there are chronological problems,

one that there is a lot of spam, three that there is too much information and no structure, two that there is a lot of clutter and four respondents mentioned that the web-pages are not interesting enough.

The next open-ended question is related to the content the respondents prefer to find on a web-page related to cultural and archeological heritage. The discussion is show below.

Table 5. Preferred information for the web-site

Preferred information for the web-sites	Number of respondents
In-depth information	10
History-related info for the archeological site	29
Aesthetic manner of presentation of info	8
Videos	12
Time-tables and prices	13
Fun facts	9
Compelling stories	4
About school projects	10
Simple things, accessible for disabled	5

Regarding the information that persons with and without disabilities prefer to find on the web-sites related to archeological content, we got the following results. Ten of them stated that they prefer to find in-depth information not just basic things about the sites. Twenty-nine noted that they need more historical information about all the sites. Eight respondents mentioned that they prefer that the presentation of the information should be more aesthetic while twelve mentioned that they prefer the content to be presented with videos. Thirteen mentioned that all they are interested in is time-tables and prices, while nine of them just like to read fun facts. Four would like to read compelling stories about the archeological sites, while ten would like to find information needed for their school projects. Five of them stated that the information should be simplified so that it is accessible for some groups of persons with disabilities.

The following open-ended question was related to online learning and the attitude of the respondents towards it. The answers are shown below.

Table 6. Online learning

Online learning	Number of respondents
It's ok	23
Not good, difficult to keep attention	34
Bad for academic life, good for trainings after graduation	38
Good if made accessible for persons with disabilities	5

Online learning is considered to be very efficient for 23 respondents. Thirty-four believe that it is not good because it's very difficult to keep the attention. Some quotations are shown below

“Online learning saves us time and it eliminates the boundaries of the classroom, but I still think jotting down notes with a pen and paper can help us understand and memories information, and also enhance our knowledge”.

“There are positive and negative aspects: the positive ones are the greater concentration and therefore the consequent ease of learning while the negative ones are more tied to the social point of view because you cannot see and interact with your friends”.

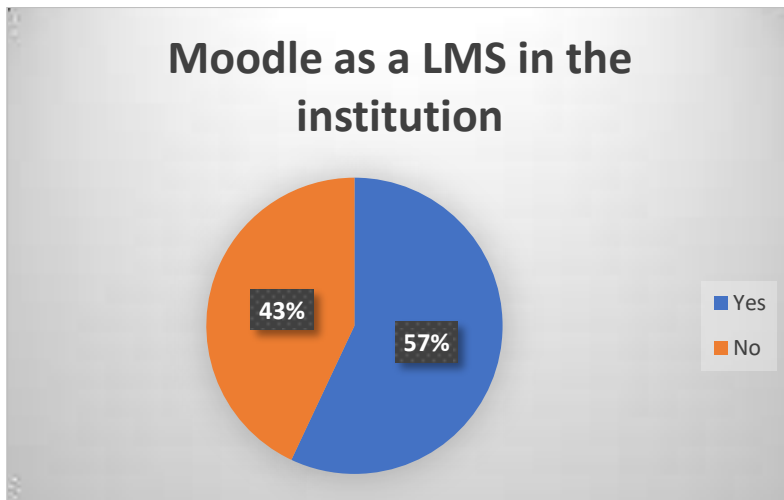
Thirty-four believe that it is bad for academic studies but it is good for work training after competition of the studies. Only five believe that it can be good if made accessible for persons with disabilities.

The next open-ended question is related to suggestions how and what is needed to make successful online learning courses.

Table 7. Suggestions for successful online learning

Suggestions for successful online learning	Number of respondents
More interactive and interesting	41
Good internet connection and good platform	10
Good text-to-speech engine	9
Sign language interpretation	9
Calendar, quizzes and video-lessons	9
A chat app just for students	3
Good teacher and good literature	12
Don't know	7

The largest number of respondents noted that they believe that the online learning should be more interactive and interesting, ten of them mentioned that a good internet connection and a good platform is needed. Nine of them mentioned that for good online-learning we should have a good and fully operational text-to-speech engine, and nine mentioned that each online course should have a sign language interpretation. Nine believe that there should be a calendar, quizzes and video lessons, three believe that there should be a chat app just for students. Twelve believe that there should be a good teacher and good literature and seven stated that they don't know. Below suggestions from a university student: „Persistence and perseverance; 2. effective time-management skills; 3. effective and appropriate communication skills; 4. basic technical skills; 5. reading and writing skills; 6. motivation and independence; 7. a good study environment. “



Picture 11. Use of Moodle as a LMS in the educational institution

The respondents with this question explained whether they use Moodle or any other Learning Management System in their educational institutions. 57% of them use Moodle, while 43% do not use Moodle as a platform for communication and online learning.

The final open-ended question is related to the role of professors in online learning. The discussion and answers are shown in the table below.

Table 7. Role of professors in online learning

Role of professors in online learning	Number of respondents
Very important	47
I don't know	15
They should be more educated in technology	38

A large sample of 47 respondents believe that the role of the professors in the online process is crucial. Fifteen respondents mentioned that they do not have opinions on this matter. Thirty-eight believe that professors should get more educated in technology and online learning.

“The role of the professor is certainly the main role, but I believe that it is not only necessary to have a theoretical knowledge of the topic, but I believe that they must learn to use the computer system and all its applications to make learning easier and closer to students so as not to divert their attention from the activity.”

“By preparing the content, activities and instructions to be as understandable as possible for people to be able to study on their own, but to be reachable should anything require further explanation. Communication should still be maintained so that the information may be extracted more effectively.”

“I have already a successful example of my professors in college. Experience, motivation, and love for the profession, overcome all possible obstacles ... pandemic and so on...!”

“They have to focus on clear contents and instructions to make learning a pleasure generating process (e.g. gamification; diversity; multiple layers)”.

CONCLUSION

There are several suggestions that we can give which can make archeological and cultural heritage more accessible for persons with different types of disabilities. Some of these recommendations originate from the research and others are simply thoughts of the authors on how to make a digitalized system more accessible.

Universal design (UD) is a concept originated by Ron Mace, the founder of the Center for Universal Design in North Carolina. Mace was an architect with a disability. He wrote that universal design is “an approach to design that incorporates products as well as building features which, to the greatest extent possible, can be used by everyone” (Mace, 1988). The original principles of UD were focused on the accessibility of the built environment.

Universal design for learning (UDL) is the result of applying UD principles to educational experiences. It is an approach to learning that uses “multiple means of representation (to allow various ways of acquiring information and knowledge), multiple means of expression (to allow alternatives for demonstrating knowledge), and multiple means of engagement (to challenge appropriately, to motivate, and to allow learners to express and participate in their interests)” (CAST, 2010).

UDL is a good fit for museums because it suggests a focus on broadening the ways we present exhibit components and the kinds of interaction they elicit from visitors. For example, ideas can be presented with audio, with text, and with illustrations that reinforce the same messages, to offer several ways to perceive the material. Interactive components can ask visitors to manipulate on-screen objects, play with physical models, think about questions that take ideas a step further, and so on, to support multiple means of expression.

On the other hand, archaeology is often regarded as a visual discipline. New digital technologies are profoundly changing the way people interact with ancient treasures. Virtual reality and augmented reality technology offers close-up experiences of heritage assets. 3D scanning, 3D printing and carving technology has made it possible to recreate objects and architecture with a high degree of precision and in a form that allows visitors to have a tactile experience of these materials. This is particularly helpful for the visually impaired, but also for people that do not have the opportunity to travel and experience the sites first hand.

See the recommendations from this study below:

- One way of making archeology easier for people to understand and become engaged with archeology it, is through 3D modelling;
- Promoting tactile exhibits, complete with braille, large print, and audio exhibition guides, exploring the key architectural and decorative features of ancient structures;
- Use of digital technologies to guide visitors with different access needs around the collections;
- Creationg of iOS and Android apps that chart routes through the museum galleries, and a game that invites users to create their own collages from collection highlights. These apps can have customisable access settings, including sign-language videos, audio descriptions and easy-read texts, prototyped and tested by participants with a mix of visual and hearing impairments, and learning difficulties.
- Personalized experiences can be built with the building blocks of accessible design and multimodal features.
- Use of captions which synchronized text transcriptions of audio that include speaker identification, off-screen dialog indicators, and non-speech audio, and any other information conveyed solely by the audio portion of a presentation.
- Offering text at multiple reading levels can enable a very wide target audience by carefully coordinating the reading level with the associated features of an exhibit. The usefulness of this technique will vary somewhat depending on the content being showcased – some complex science concepts may not be able to be effectively conveyed with less complex language.
- Use of video descriptions can provide descriptive narration of key visual elements that are inserted within the natural pauses in dialogue (for motion video) to help low-vision viewers better understand the story. Key visual elements are those which viewers with vision loss would ordinarily miss, and include actions, costumes, gestures, facial expressions, scene changes, and onscreen text. These types of descriptions apply equally well to static objects (paintings, sculptures, maps, charts, and graphs, etc.) and to dynamic video and audio content.

- People with some cognitive disabilities respond well to low-clutter environments. People with these disabilities may have reduced abilities to retain information or transfer applied skills. Reducing visual or auditory clutter can be less distracting and improve the visitor's focus on an exhibit.
- Font size, colors, and contrast are text display attributes that allow underlying content to be rendered in ways that allow for easier reading. When designing exhibits and user interfaces, separating content (the underlying textual information) from the rendering of that text (drawing words on a screen) is considered smart design. It allows for flexible rendering options.
- Effective 3D digitization of archeological artefacts – a digital 3D reproduction of medium and small size archeological artefacts. This scans can be used to be seen online or printed with a 3D printer.
- Creation of a digitalized platform accessible for blind (through the development of a text-to-speech engine), for deaf (by embeddement of sign language videos on the platform) and for the dyslexic reader (by embedding a plug-in for a special font for dyslexics).

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