

SCIENTIFIC PROGRAMME FOR ICSuSaT-2023

ORAL PRESENTATIONS 15 July 2023-Saturday

HALL-1

10.00-12.00	Opening : Prof. Dr. Iskender AKKURT (Chair of ICSuSaT-2023)—Suleyman Demirel University, Isparta / TURKIYE	
	Session Chair : Dr. Feride KULALI-- Uskudar University, Istanbul / TURKIYE	
	Invited Speaker 1: Prof. Dr. Ionel Mangalagiu -- Alexandru Ioan Cuza University Of Ias-Romania; “Five and six member ring azaheterocycles with antimicrobial and anticancer activity”	
	Invited Speaker 2: Prof. Dr. Yermek Buribayev-- Abai Kazakh National Pedagogical University-Kazakhstan “Labor law in observance of the right to gender equality and the prohibition of discrimination: the practice of Kazakhstan ”	
	Invited Speaker 3: Dr. Khedidja Benarous-- University of Laghouat-Algeria “The most published in silico studies in 2023 about COVID-19 with natural molecules ”	
	Invited Speaker 4: Prof.Dr. Anna Winiarczyk-Rażniak -- Pedagogical University of Krakow-Poland “Rediscovered: cenotes as a potential source of tourism in Yucatán, Mexico”	
	Invited Speaker 5: Prof. Dr. Amir HUSSAIN -- Centre of AI and Robotics, Edinburgh Napier University, Scotland, UK; “Trustworthy Artificial Intelligence for Assistive Healthcare Technologies”	
12.00-12.45	LUNCH-BREAK	

HALL-1

12.45-15.15	Session Chair : Dr. Feride KULALI-- Uskudar University, Istanbul / TURKIYE		
	117	Dr. Hayat Arbouz	Simulation of all-inorganic perovskite solar cell structures based on the compositionally tunable bandgap lead-free perovskite absorber CsSn(1-xBrx)3 for photovoltaic applications.
	3	Iftikhar Gasimov	Relationship of mud volcanoes with oil-gas reservoirs and gas hydrate system in the southern caspian basin
	13	Ben Ammar Ben Khadda	The effect of the marine environment on the mechanical behavior of the concretes of the Keddara Dam (Algeria)
	18	Samir Benbakreti and Umut Ozkaya	The Melanoma Skin Classification Using AlexNet, ResNet 18 and Inception v3 for Diagnosis of the Malignant Cancer
	19	Dr Radia Abdelli and Ahcene Bouzida	Study and comparison of the SEIG's control methods in wind power generation
	20	Ahcene Bouzida, Radia Abdelli and Aimad Boudouda	Detection of polyphase-signals intersection points in electrical machines for fault diagnosis purposes
	23	Alaeddine Kaouka	Mechanical characteristics and microstructure evolution of Ti6Al4V titanium alloy
	24	Alaeddine Kaouka	Kinetic study and estimation of corrosion synergism of boride Ti6Al4V titanium alloy immersed in a neutral aqueous solution
	34	Zhansaya Bolatova, Zhanna Bulkhairova and Moldir Kulshigashova	Climate change impact on economical efficiency of leguminous crops production and perspectives in Kazakhstan
	40	Prof. Dr. Mouloud Challal, Mr Sidahmed Hendou and Mr Mohamed Boualia	Design, Fabrication and Performance Analysis of a Microstrip Low-Pass Filter with Ultra-Wide Band Rejection and Sharp Roll-Off Characteristics
	42	Kamal Sehairi, Jean Meunier and Thierry Bouwmans	Cats and Dogs Detection for Accident Prevention and Advanced Driver-assistance Systems
	44	Nina T. Morozova and Fedor A. Pleshakov	Development of an experimental recoater to study the technology of layer-by-layer application of sand mixture
	47	Aynur Zamanova	Study of geodynamic conditions of the ajnour perspective oil and gas region
	52	Mohammed Awad and Wala Faqeeh	Classification of Breast Cancer Depends on Risk Factors Using machine learning Techniques: Case Study Palestine
	54	Dr. Tahar Boukra, Bilel Ayachi and Lakhdar Bouras	Induction Fault Diagnosis Using Deep Learning Based Approach
	148	Abdelhakim Hanafi and Menouar Hanafi	The study of the water pollution in the west of algeria
15.15-15.30	BREAK		
15.30-18.00	61	Fedor A. Pleshakov and Nina T. Morozova	Development of a printhead adjustment device for robotic systems for layer-by-layer printing of foundry molds
	62	Tahmina Garayeva, Zohrab Novruzov, Kheyran Allakhverdiyeva, Goychak Tashviri and Anar Mammadov	Biomagnetostratigraphy of paleogene rocks of the south-eastern part of the Greater Caucasus
	63	Zohrab Novruzov, Tahmina Garayeva and Arzu Bagirova	Magnification of the magnetic signal over the Oil Field of Pirallahi Island
	66	Hamida Maachou, Yamina Zouambia, Faiza Benaïssa and Baya Tchikou	Contribution to the Valorisation of a Plant Biomass in the Treatment of Effluents: Copper(II) Removal
	68	Muhammed Yetgin and Oumeïma Toumia	The Effect of Career Competency on Job Performance: The Mediation Role of Artificial Intelligence Awareness
	70	Müge Teker Yıldız and Okan Acar	Physiological Responses of Some Barley Varieties (Hordeum vulgare L.) at Germination Stage Under Short-term Salt Stress
	71	Eda Günay and Okan Acar	Effects of Exogenous Brassinosteroid (EBL) on Drought Tolerance in Two Wheat Varieties
	132	Abderrahmane Ouadi, Hamid Bentarzi and Meriem Mahboubi	Micro-Phasor Measurement Unit Performance Enhancement Using Advanced Signal Processing Techniques
	77	Samet Çam, Can MEMİŞ, Hatice Kubra Falcıoğlu, Gökhan Çoklar, Dr. Selin Ceren Yamak and Asst. Prof. Dr. Idris Saneaktar	Energy Production with Solar Panels in Dark Environments
	79	Liza Lamini, Amel Djouadi, Baghdadi Yacine, Zoubiri Fatma Zohra, Abderrahman Ouaklil and Rachida Rihani	Comparison between agro-industrial orange-apricot cocktail and agricultural feedstocks for bioethanol production
	82	Selma Houchi	Therapeutic potential of Hispidulin 7-glucoside from Salvia fruticosa Mill. against COVID-19 by inhibiting the Main Protease (Mpro) of Sars-CoV-2
	84	Prof.Dr. Hazem Khanfar and Prof.Dr. Atef Qasrawi	Design, characterization and application of Ge/SeO2 heterojunctions
	87	Prof.Dr. Amira Sellami Ep Cherif and Prof.Dr. Riadh Elleuch	Eco-friendly brake pad materials based on marine resources

	109	Sevda Şahan, Ece Korkut and Semih Koç	Evaluation and Comparison Performance Effects of Molybdenum Disulfide and Nano Molybdenum Disulfide on Lithium Greases
18.00-18.15	BREAK		
	27	Sabiha Anas Boussaa	Hydrothermal Synthesis of Mordenite Type Zeolite
	28	Sabiha Anas Boussaa	Thermal Treatment and Organic Solvent use for Eliminating EVA Encapsulant from End of Life Photovoltaic Modules
	163	Serap Özhan Dogan, Burak Galip Anik and Umut Goktas	Vertical Water Silo Design and Analysis
	164	Serap Özhan Dogan, Mucahit Demircioglu, Nihat Bulduk and Umut Goktas	REDUCER GEAR DESIGN AND ANALYSIS FOR CONVEYOR SYSTEM
	165	Serap Özhan Dogan, Kaan Bayram and Ahmet Karatas	Control tower system of logistics processes
	156	Hatice Varol Ozkavak, Kadir Gunoglu and Iskender Akkurt	Effect of Silicon Carbide on gamma ray attenuation coefficients in Aluminum Metal Matrix Composite
	155	Hatice Varol Ozkavak, Kadir Gunoglu and Iskender Akkurt	Radiation Shielding Properties of Chromium Carbide Reinforced NiCrBSi Carbide Coatings
	167	Ahmet Daglı and Serap Ozhan Dogan	E-Commerce Return Processes and Data Analysis in Logistics

HALL-2

	Session Chair : Dr. Osman GÜNAY—Yıldız Technical University, Istanbul / TURKIYE		
	99	Assia Djebri, Ouiza Allalou, Noredine Boudechiche and Zahra Sadaoui	The improvement of the Mebeverine Hydrochloride photocatalytic degradation by using combined Activated Carbon/ZnO under sunlight
	101	Reem Jafar, Sara Raouf and Israa Tahseen	Survey of Multiple Destination Route Discovery Protocols
	104	Mazdak Nik-Bakht	Analysis and prediction of water main failure trends under climate change
	105	Mazdak Nik-Bakht	Building Energy Consumption Prediction with Machine Learning - Investigating Short-term and Long-term Trends
	106	Halil Soyol, Mucize Sarihan	Radiation safety for operating room technicians
	107	Berra Seda Sarihan, Mucize Sarihan	Designing the Internal Structure in Pet CT Units
	108	Berra Seda Sarihan and Mehmet Naim Kara	Interior Design In Nuclear Medicine Laboratories
12.45-15.15	110	Prof. Dr. Mouloud Challal, Ines Nihad Bencherif and Bachir Zoubiri	Design and Implementation of a Compact Monopole Antenna for Wireless Applications
	114	Abderrahmane Ouadi and Hamid Bentarzi	Energy Management System Enhancement Using Statemachine in Smart Micro-Grid
	115	Walid Touzout, Abderrahmane Ouadi and Hamid Bentarzi	Battery Management System Enhancement Using Artificial Intelligence for Smart Micro-Grid
	121	Ilhem Soyah and Riadh Hannachi	Direct and indirect detection of a carbohydrate antigen 19-9 using the Photothermal Lens Spectroscopy
	157	Ezgi Avcı	Generative AI for Commodity Market Surveillance
	136	Sarra Bouzaabia, Aida Kesraoui and Mongi Seffen	Comparative study of competition between micropollutants towards biosorption by Luffa cylindrica in batch mode
	123	Özgür Yakışan and Aydın Kececi	Energy-free operation in electricity(dead working)
	72	Özgür Yakışan and Aydın Kececi	Elektrikte enerjili çalışma
	111	Osman Gunay, Caner Yalçın and R. Taygun Guray	Determination of Artificial Radioactive Cs-137 Dose Level in Some Soil Samples in Darica
	113	Osman Gunay	Thorium Levels in Sands of Caddebostan Beach: Assessment and Implications for Human Health
	37	Iskender Akkurt, Osman Gunay and Kadir Gunoglu	Electron stopping power and CSDA range for different cement pastes
15.15-15.30	BREAK		
	124	Kaan Can Baş and Dr.Öğr. Üyesi Selim Hartomacioğlu	Generative Design Case Study: A Generative Design Approach to the Creation of a Customised Bearing Housing
	127	Gazmend Nafezi and Meleq Bahtijari	Natural radioactivity and radon exposure levels in spas in Kosovo
	128	Mehmet Karahan, Furkan Lacinkaya, Mertcan Inal, Alperen Dilmen, Ahmet Nuri Akay and Cosku Kasnakoglu	Detection of the Coordinates of the Bee Swarm in the Sky Through Image Processing
	134	Berra Seda Sarihan and Mucize Sarihan	Designing the internal structure in PET CT units
	135	Rania Hrichi, Aida Kesraoui and Mongi Seffen	Retention of Dyes by using a new hybrids materials based on Luffa cylindrica fibers and Copper metal oxides
	137	Khalid Fadhil Jasim, Osama Al-Atraqchi and Sara Muhamad Amin	Comparison the Encryption Algorithms and Design Encryption Software for the Security of SMS
	138	Hakim Bellaghma, Safia Dems, Meriem Chaima Khaal and Rebiha Labbani	Evaluation of hypo- fractional protocols used in radiotherapy
15.30-18.00	145	Nilgün Demir, Ş. Burçak Dağlı and Betül Elbir	Experimental Testing of Glass RPC
	95	Dilek Doğan and Yasemin Beyhan	Toplu Beslenmede Sürdürülebilirlikte Yeni Bir Model: Gıda Atıklarının Kompost Olarak Değerlendirilmesi
	162	Ezel Özdemir and Kadir Günoğlu	Hastanelerin radyasyon alanlarında çalışan personelin iş sağlığı ve güvenliği bilgi düzeylerinin değerlendirilmesi
	158	Kadir Gunoglu	Effect of Zinc Oxide on the radiation shielding properties of polyvinyl butyral (PVB) matrix
	154	Osman Gunay, Iskender Akkurt and Kadir Gunoglu	Calculation of mass attenuation coefficients of tungsten carbide composites containing different proportions of cobalt
	112	Mucize Sarihan, Osman Gunay, Kadir Gunoglu and Iskender Akkurt	Potassium Concentrations in Suadiye Beach Sands: A Study on Environmental Health Significance
	103	Hakan Akyıldırım, Kadir Gunoglu, Iskender Akkurt	Investigation of photon interactions of Li2O-Al2O3-SiO2 glass ceramics
	171	Iskender Akkurt	Variation of LAC with the ZnO on PVB
18.00-18.15	BREAK		
	ONLINE Presentations		
	74	İlyas Kartal and Hilal Selimoğlu	Polyester Matrisli Kompozitlerde Kalsit ve Talaş Dolgusunun Mekanik Özellikler Üzerindeki Etkisi
	75	İlyas Kartal, Kübra Kasap and Halil Demirer	Evsel Siyah Çay Atığı Dolgulu Vinilester Kompozitlerin Mekanik Özelliklerinin İncelenmesi
	59	Svetlana Kolesnikova and Kustova Ekaterina	Control Algorithms for a Multidimensional Immunology Model under Conditions of Unknown Disturbances

18.15-19.45	67	Caner Tuna, Celal Erkal Kahraman, Hakan Erçay and Tuncay Dikici	Investigation of the Effects of Decarburization Depth on the Mechanical Performance of Spring Steels
	116	Nezire Lerzan Çiçek	Kovada Gölü Fitoplanktonu ve Mevsimsel Dağılımı
	166	Ozen Yurdakul, Erdi Şen, Soner Tutun, Nilay Keyvan and Mumine Tuğçe Zengin	Determination of The Presence of Pathogen Candida Spp. In Bulk Tank Milk
	150	Gamze Soyuturk and Onder Kizilkan	Comparative Evaluation of Bottoming Transcritical Rankine Cycles for DoubleFlash Geothermal Power Plant with Hydrogen Producing
	151	Gamze Soyuturk and Onder Kizilkan	Energy and Exergy Assessment of Integrated Photovoltaic-thermal (PV/T), PEM Electrolyzer and Organic Rankine Cycle (ORC) for Different Working Fluids
	130	Mr. Mustafa Rasit Turgut and Dr. Selim Hartomacioğlu	Design and analysis of the housing of ball screw's nut with generative design method
	169	Aycan Sengul	Gammos: A tool for LAC on radiation shielding
	159	İpek Atik	Classification of Aircraft Types Using Deep Learning Approaches: An Effective Study
	160	İpek Atik	Automatic Classification of Pineapple Diseases using Deep Learning Algorithms
	161	İpek Atik	Automatic Detection of Submarine Objects Using Deep Learning and Image Processing Techniques
	152	Nurdan Karpuz	TALYS: A tool for cross section estimation on nuclear reactions
	153	Nurdan Karpuz	Theoretical approach for (g,n) cross sections.
	180	Muhterem KOÇ, Osman ŞAN	The Effect of reactor temperature on nanostructured 3Y-TZP/Al ₂ O ₃ composite particles properties produced by ultrasonic spray pyrolysis method
	181	Muhterem KOÇ, Eda TAŞÇI,	Siyah Seramik Bünye üretiminde (Fe,Cr)2O ₃ İçerikli Atıkların Renklendirici Etkisinin Araştırılması
182	İdris Arslan	Propolis-based caffeic acid phenethyl ester (CAPE) and their biological effects	
183	İdris Arslan	sulfated glycosides: occurrence in nature and biological activities	

POSTERS

Session Chair : Dr. Feride KULALI -- Uskudar University, Istanbul / TURKIYE			
10.00-19.00	6	Violeta Mangalagiu, Dorina Amariucui-Mantu and Ionel Mangalagiu	Pyridazine derivatives with antimicrobial activity
	7	Aynur Zamanova, Gunel Sadigova and Amin Hasanov	Complex analysis of the geodynamic conditions of the Absheron-Balkhan oil and gas zone
	8	Dumitrela Diaconu, Dorina Amariucui-Mantu, Vasilichia Antoci, Violeta Mangalagiu, Catalina Ciobanu and Ionel Mangalagiu	Anticancer activity of new quinoline derivatives
	11	Dr Robert Lakatoš, Dr Aleksandra Mihailović, Dr Sofija Forkapić, Dr Selena Samardžić, Dr Jordana Ninkov, Dr Kristina Kalkan and Dr Kristina Bikit	Comprehensive research on environmental pollutants hazardous to health in urban zones in the city Novi Sad, Serbia
	29	Abderrezak Aibeche, Aimad Boudouda, Hamza Akroum and Madjid Kidouche	Modeling and Characterization Method of Differential Protection for Internal Short-Circuit Fault Detection in Power Transformer
	30	Houria Ghodbane and Samiya Telli	Toxicity and potential elimination technology from wastewater
	31	Houria Ghodbane, Maroua Nessaibia and Samiya Telli	Isotherms and Kinetic Study of Ultrasound-Assisted Adsorption of Cristal Violet from Aqueous Solution
	32	Samiya Telli and Houria Ghodbane	Adsorption of crystal violet from aqueous solutions with effective adsorbent: equilibrium, mechanism studies and modeling analysis
	33	Aimad BOUDOUDA, Abderrezak AIBECHE , Fatima BENNIA , Aimad AHRICHE, Ahcene BOUZIDA	Impact of Coil Shape on Wireless Power Transfer System Performance: A Comparative Study
	35	Gunel Sadiqova	Gravity model and geodynamics of the south-eastern caucasus
	48	Lazhar Belabed and Ilham Bahloul	Analysis of of Earth Pressures by anchored retaining walls
	50	Nurana Malikova, Nahmad Ali-Zadeh and Tofiq Nagiev	Peroxidase biomimetic sensor
	57	Faiza Benaissa and Hamida Maachou	Optimization of the Treatment of pharmaceuticals wastewaters using date stems biomaterial
	58	Dr. Zineb Fergani	Exergoeconomic Analysis of a Solar - WHR Organic Rankine Cycle with a Zeotropic Mixture
	60	Zeghdi Zoubir, Larabi Abdelkader and Barazane Linda	Backstepping Control Design Based Robust Tracking Control for DFIG Integrated on Wind Energy Conversion System
	65	Dr. Walid Mamache, Hassiba Benabdallah, Fatima Benchikh, Smain Amira and Hind Amira	Chemical profile, Antiglycation, anti-inflammatory and cytotoxic effect of four Algerian Salvia species; S. aegyptiaca, S. verbenaca, S. barrelieri and S. argentea
	141	Khaled Al-Shboul	Particle Swarm Optimization for Efficient Nuclear Reactor Shielding Design
	78	Linda Barazane, Zoubir Zeghdi and Abdelkader Larabi	A Hybrid Synergistic-Vector Control Scheme Applied to an Induction Machine
	86	Yamina Zouambia, Hamida Maachou, Hanaa Mami and Nabila Benbaha	Xanthan gum hydrogels as a benzylpenicillin delivery system
	89	Prof. Thouraya Turki and Prof. Abdelkader Hamdouni	Fluoride removal from water drink by adsorption on shell mollusc: kinetic and thermodynamic studies
	91	Abdelkrim Merzougui and Tarek Djoudi	Design optimization of an auto-thermal ammonia synthesis Reactor using Hybrid genetic algorithm (HyGA)
	92	Djoudi Tarek, Merzougui Abdelkarim, Ghettaf Temam Elhachemi and Hecini Mabrouk	Study of the behavior of date palm tree fibers and their impact on the mechanical properties of a bio-composite (PP/ Date palm tree fibers).
	94	Merzougui Abdelkrim, Djoudi Tarek and Chaker Laiadi	Liquid-liquid extraction of Aziridine from water using Salting-out Agents at T = 305.15 K: Experimental and Data Correlation
	97	Prof.Dr. Elhachmi Guettaf Temam, Prof. Merzougui Abdelkrim and Prof.Dr. Tarek Djoudi	Effect of film thickness and hole-scavengers on the photocatalytic properties of TiO ₂ thin films
102	Bouatrous Mehieddine	Synthesis Of Mesoporous C-S-H for Drug Delivery	
118	Zabat Nacéra	The Removal of Heavy Metal Effluent From Wastewater By Nanoparticles Based on Polyoxometalates	
122	Nawel Nedjah, Nour Elhouda Arabi and Mounir Nessaib	Valorisation of fig leaf extracts plant as green inhibitor steel corrosion in acid environment	
131	Gazmend Nafezi and Meleq Bahtijari	Assessment of lignite-fired power plants impact on radon activity concentrations	
139	Rebiha Labbani and Madjida Kerkatou	Prediction of irradiation phenomena induced by electron beams interaction with solid targets	
140	Sidi Mohammed Nadjib Serdoun and Sidi Mohammed Hamza Cherif	Vibration Analysis of Composite and Sandwich Plates Reinforced With Parabolic Fibers	
144	Abdel Karim Ferouani, Sid Ahmed Benmansour, Chewki Ougherb and Mostefa Lemerini	Numerical simulation of the spatial-temporal evolution of charged particles in interaction with a negative plane-plane electric discharge	

	146	Mohamed Rahou, Sebaa Fethi and Amine Chami	Modeling and Optimization Of Cutting Speed Under The Constraint Of Surface Quality
	147	Medjahdi Ines Sarah, Ferouani Abdelkarim and Lemerini Mostefa	Impact of chemical reactions in the conversion of NO in a mixed N ₂ -O ₂ plasma Under various concentrations
	149	Sidi Mohammed Nadjib Serdoun and Sidi Mohammed Hamza Cherif	Analysis of Modes Shapes of Sandwich Plates Reinforced With Parabolic Fibers
	98	Asma Hemmi, Mohamed Belmedani, Elhadj Mekatel and Sérine Madji	Experimental Study on Photocatalytic Activity of MgAl ₂ O ₄ Nanocomposites for the degradation of Tetracycline

ZOOM Info

15 July 2023-Saturday	
Opening: Prof. Dr. Iskender AKKURT (Chairman)	Topic: ICSuSaT-2023-invited Jul 15, 2023 09:30 AM Istanbul Join Zoom Meeting https://us06web.zoom.us/j/6319935466?pwd=SUhLbFZTVHR5a2pGV1oyekQvR2gxdz09 Meeting ID: 631 993 5466 Passcode: icnasen23
12.00-13.00 LUNCH BREAK	
Saturday Session 21 12:30-15:30 Chair: Dr. Feride Kulal	Topic: ICSuSaT-2023 session-1 Time: Jul 15, 2023 12:30 AM Istanbul Join Zoom Meeting https://us06web.zoom.us/j/6319935466?pwd=SUhLbFZTVHR5a2pGV1oyekQvR2gxdz09 Meeting ID: 631 993 5466 Passcode: icnasen23
15.15- 15.30 BREAK	
Saturday Session 2 15.30- 18.00 Chair: Dr. Feride Kulal	Topic: ICSuSaT-2023-session 2 Time: Jul 15, 2023 03:30 PM Istanbul Join Zoom Meeting https://us06web.zoom.us/j/6319935466?pwd=SUhLbFZTVHR5a2pGV1oyekQvR2gxdz09 Meeting ID: 631 993 5466 Passcode: icnasen23
18.00- 18.15 BREAK	
Saturday Session 2 18.15- 19.45 Chair: Dr. Feride Kulal	Topic: ICSuSaT-2023-session 3 Time: Jul 15, 2023 06:00 PM Istanbul Join Zoom Meeting https://us06web.zoom.us/j/6319935466?pwd=SUhLbFZTVHR5a2pGV1oyekQvR2gxdz09 Meeting ID: 631 993 5466 Passcode: icnasen23