

CIEA 2021

II. INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING APPLICATIONS

MUS ALPARSLAN
UNIVERSITY
MUS, TURKEY

MAY 20-22

20.05.2021 THURSDAY/PERŞEMBE

20.05.2021 THURSDAY/PERŞEMBE					
10:00-10:30	Opening Speech & Ceremony				
CHAIR	Asst. Prof. Dr. Enver SALKIM https://meet.google.com/tss-dodp-zxd				
10:30-12:00	Presentations of Invited Speakers Assistant Professor Dr SHYAM KAMAL (<i>Free-will Arbitrary Time Stability and Stabilization</i>) Indian Institute of Technology Department of Electrical Engineering, India Assistant Professor Dr FARAN AWAIS BUTT (<i>An Introduction to Micro-Doppler Signatures and Emerging Applications of Micro-Drones</i>) University of Management and Technology (UMT), Lahore, Pakistan				
	ID No	ARTICLE TITLE	ID No	ARTICLE TITLE	
CHAIR	Assoc. Prof. Dr. Zeydin PALA https://meet.google.com/uxj-xtxz-asi		CHAIR	Prof. Dr. Asım BALBAY https://meet.google.com/djh-odjw-ovu	
13:00 - 13:15	30	Regional Topology Controlled Clustering and Routing Protocol for Heterogeneous Wireless Sensor Networks Yalçın, Sercan; Erdem, Ebubekir*	123	Vacuum ultrasound-assisted osmotic dehydration method applied to apricot and optimization of process parameters Ak, Ferit*; Zırhloğlu, Orhan	
13:20 - 13:35	52	FPGA Implementations of High-Speed Chaos-Based Bitwise Dynamical True Random Bit Generators Erdem, Ebubekir*; Garıpcan, Ali Murat	18	Optical Performance Tests And Collimator Adjustments of Weapon Mounted Binoculars Demirel, Alper*; Ungan, Fatih	
13:40 - 13:55	58	An automated drowsiness recognition system-based hybrid features using EEG signals Arı, Ali*	27	Optical Production Processes Özdemir, İslam Çağrı*; Ungan, Fatih	
14:00 - 14:15	60	The Effect of Hops on Network Performance for Linear Wireless Sensor Networks Çıbuk, Musa*; Arı, Davut; Ağgün, Fikri	39	Evaluation of Digital Maturity for Maritime Logistics: A case study Göçmen, Elifcan*	

CHAIR	Asst. Prof. Dr. Fehmi ASLAN https://meet.google.com/szt-kvqu-zvf		CHAIR	Asst. Prof. Dr. Özgür DEMİR https://meet.google.com/aae-efzz-son
13:00 - 13:15	48	Energy and Exergy Analysis of Elazığ Province Wastewater Treatment Plant Dikici, Aydın* ; Özdemir, Elif	14	Minimum Miktarda Yağlama Tekniği ile Frezeleme İşleminde Yüzey Pürüzlülüğünün ANFIS ile Modellenmesi Dilipak, Hakan; Asal, Ömer * ; Yalçinkaya, Ayşegül; Ünal, Şeymanur
13:20 - 13:35	29	The Study of Global Climate Change in The Current Scenario Çağlayan, Gizem Hazan* ; Sülük, Kemal	15	Kuru ve Minimum Miktarda Yağlama Tekniğinin Yüzey Pürüzlülüğü Üzerindeki Etkisinin Araştırılması Asal, Ömer * ; Dilipak, Hakan; Köksal, Şeyma Gül; Yıldırım, Tuğba
13:40 - 13:55	46	Tetracycline Degradation by Persulfate Activation Using an Efficient Heterogeneous Catalyst Erdem, Hatice* ; Erdem, Mehmet	16	Analytical Investigation of the Effects of Punch Form in Flanging of the DP600 Sheet Material Eryılmaz, İsmail; Gürün, Hakan* ; Gökbilen, B.
14:00 - 14:15	47	Efficient Degradation of Fenopufen from Aquatic Environments Using an Activated Carbon-Supported Iron-Based Catalyst Erdem, Hatice* ; Erdem, Mehmet	11	Diffraction Physics at the Cern Large Hadron Collider Karasu Uysal, Ayben*

CHAIR	Assoc. Prof. Dr. Hüseyin KOÇ https://meet.google.com/bar-vcud-ygp		CHAIR	Asst. Prof. Dr. İshak ERTUĞRUL https://meet.google.com/kkz-yuqz-wka
13:00 - 13:15	5	A Short Survey Paper on The Diophantus' Theory Related With Physics Özer, Özen *	112	A New Four-Stage Convolutional Neural Network for Facial Recognition System on a Raspberry Pi 4 Hussain, Zawar* ; Tahir, Huzaifa; Ahsan, Muhammed Ahmad; Ijaz, Khalid; Butt, Faran, A.
13:20 - 13:35	6	On the Special Method of Solutions of the Pell Equations Özer, Özen *	111	A Low-Cost Smart Crisis-Management Vehicular System Mirza, Abdul Mueed* ; Shahid, Muhammad Zuhaib; Tariq, Abdul Haseeb; Butt, Faran; Hussain; Zawar
13:40 - 13:55	7	New Results on the Some P_10 Diophantine Triples Özer, Özen * ; Eren, Murat	89	Radio-Over-Fibre Techniques and Applications Liu, Chin-Pang*
14:00 - 14:15	17	Application of Artificial Intelligence Based Machine Learning Techniques in Particle Physics Analysis Yalcin Kuzu, Serpil* ; Karasu Uysal, Ayben	95	A Framework for the Development of an Autopilot System for Unmanned Aerial Vehicles Sanusi, Sunday; Mohammed, Ameer* ; Dandago, Khalid, K.; Kadiri, Mudashir

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21.05.2021 FRIDAY/CUMA

CHAIR		Asst. Prof. Dr. Mehmet AKÇAY https://meet.google.com/wqu-yuwd-rik		
10:00-10:15	10	Experimental Thermal Performance of a Flat-Tube Automobile Radiator Using Various Mixtures of Propylene Glycol and Water as a Coolant Gündem, Ahmet*; Hoşöz, Murat; Keklik, Erkan	24	The Impact of Dams and Urbanization on Global Warming Şekerci, Kürşat*
10:20-10:35	86	Experimental Investigation of the Effect of Nanofluid Supported Vehicle Engine Cooling System on Engine Emission Values Yüksel, Tahsin*; Kapıcıoğlu, Abdullah		
10:40-10:55	87	An Exergy-based Analysis of Spark Plug Position Effects on Engine Performance Buran, Dinçer*; Güçlü, Kübra	85	Decolorization of Acid Orange 7 Using Immobilized TiO ₂ on Glass Beads Kocaman, Ekin Seray; Kartal, Özlem Esen*; Karakurt, Hüseyin
11:00-11:15	36	Geothermal Energy as an Alternative Energy Source for Mus Province Dölek, İskender*; Algan, O. C.	98	Solar Decolorization of Acid Orange 7 Using TiO ₂ Coated PET Bottles Berkaş, Aslı; Kartal, Özlem Esen*

CHAIR		Asst. Prof. Dr. İhsan TUĞAL https://meet.google.com/gus-bjdh-pdq		
10:00-10:15	1	Performance Comparison of Classification Algorithms in Air Traffic Data Çelik, Muhammet*; Avcı, Engin	119	Nanotechnology and Concrete: Applications and Challenges R. Navazi, Zahra*; Danandehmehr, Ali; Hoda, Numan
10:20-10:35	2	Fuzzy Software Risk Management Batar, Mustafa*; Birant, K. Ulaş; Işık, Ali Hakan	66	Comparison of Hydraulic Modeling Softwares for Calculating Head Loss in Water Distribution System Eryürük, Kağan*
10:40-10:55	43	Classifying Anemia using Bagging MARS with Machine Learning Methods in Syrian Immigrant Pregnant Women Gencer, Kerem*; Gencer, Gülcan; Birge, Özer; Serin, Aliye Nigar	114	The Importance of Applications of Fluidized Bed Boilers in Turkey Benli, Hüseyin*

11:00-11:15	51	Research Of Voice Studies Using Supervised And Unsupervised Learning Methods Güler, Hakan *; Ulas, Mustafa; Boyacı, Aytuğ	72	The Investigation of Deep Drillability of Tool Steel Using Electro Discharge Machining Karaca, Faruk*; Ünal, Engin
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CHAIR	Asst. Prof. Dr. Mehmet Eşref ALKIŞ https://meet.google.com/dib-mssj-scm			Assoc. Prof. Dr. İlkey DEMİR https://meet.google.com/eti-oszu-ayw
10:00-10:15	25	Automation System in Oil Transformers in Kahramanmaraş Şahin, Hacı A*; Şekkeli, Mustafa	3	Notes on the P_256 Diophantine Triples Özer, Özen *
10:20-10:35	26	Irrigation System Design That Optimizes PID Parameters with Ant Colony Algorithm Saydam, Merve*; Güneş, Mahit	4	Results on the Quadruple Extensions of Some P_256 Diophantine Triple Özer, Özen *
10:40-10:55	31	Investigation of Filter Effects and Performances for Noise Reduction in Reconstructed Image by Using Lateral Shearing Holographic Microscopy Ustabaş Kaya, Gülhan*; Onur, Tuğba Özge	8	A Mini Survey on the Diophantine Triples with Property P_k Özer, Özen *
11:00-11:15	34	Classification of Power Quality Signals Using Discrete Wavelet Transform and Multilayer Perceptron Algorithm Akmaz, Düzgün*	110	Effect of High-Frequency Intense Laser Field on the Binding Energy of Hydrogen-Like Donor Impurity in Semi-Exponential Quantum Well Türkoglu, Aslan*; Ungan, Fatih

CHAIR	Asst. Prof. Dr. Halil YILMAZ https://meet.google.com/wsx-qthj-vqe		CHAIR	Prof. Dr. İbrahim CAN https://meet.google.com/onx-kjxo-rmu
15:30 - 15:45	9	Annealing Effects on Optical and Electrical Properties on Bis (2-(2-Hydroxyphenyl)Pyridinato)Beryllium (Bepp2) Film's Mantarçı, Asim*	50	Stokastik Talepli Şans Kısıtlı Araç Rotalama Probleminde Rota Uzunluğunun Tespiti Şehitoğlu, Adem*; Ağayeva, Çerkez
15:50 - 16:05	63	An Innovative Method for Measuring Strength of Material by Light Transmittance İnce, Serdar Turgut*	62	Key Performance Indicators Used in Evaluating the Performance of Universities Taşkan, Buşra*
16:10 - 16:25	68	Investigation Of Radiation-Induced Electrical Properties Of Polymer And Oxide Interface Layered Structures Özkara, Bahriye*; Bilge Ocak, Sema	99	Design Of Dentist Scrubs With Functional Properties Yüksek, İlkey Özsev*; Hatipoğlu, Cemile Begüm; Erdağ, Merve; Mansuroğlu, Cansu; Altay, Pelin; Yüksel Filiz, Şükriye; Gürsoy, Nevin Çiğdem
16:30 - 16:45	101	Design and Production of Aluminum Alloy and Steel Frame Bicycles Çanakçı, Alper; Bal, Ali Orçun ; Yağcı, Tuğçe; Korkmaz, Adem*	104	Optimization Of The Hunger Games Search Algorithm Through Unimodal Variable Fixed Dimension Functions Eker, Erdal *; Dündar, A.

16:50 - 17:05	102	Integrated Computational Materials Engineering Approaches in Sheet Metal Forming Process Özöztürk, Aslı*; İpek, Zafer; Korkmaz, Adem; Yağcı, Tuğçe; Culha, Osman	105	A New Hybrid Grey Wolf-Nelder-Mead Optimization Algorithm For Solving Optimization Problems Eker, Erdal *
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CHAIR	Asst. Prof. Dr. Murat DEMİR https://meet.google.com/zus-svbp-ttm		CHAIR	Asst. Prof. Dr. Selman ASLAN https://meet.google.com/nfe-ywey-kjn	
15:30 - 15:45	71	Binary Grey Wolf Optimizer using Archeology and Astronomy News for Text classification Aktaş, Muhammet*; Kiliç, Fatih	19	Assessment of Risk Factors Using the Matrix Method in Hydroelectric Power Plants Doğan, Yusuf*; Korkmaz, Meral	
15:50 - 16:05	82	E-Homework System Developed for the Purpose of Digitalizing Educational Activities and Peer Evaluations Genç, Erdi*; Ulas, Mustafa	20	Application of Solar Energy System and Carbon Emission in Buildings Doğan, Yusuf*; Korkmaz, Meral	
16:10 - 16:25	103	Classification of Lung X-Ray Images Using Convolutional Neural Network Yavuz, Sırma; Yağmahan, İzzet; Zan, Hasan*	55	Case Study: Effect of Carrier System on Time and Cost in Reconstruction Construction Works Akçay, Cemil*	
16:30 - 16:45	28	An Evaluation on the Parameters Causing Thermomechanical Damage in Surgical Bone Drilling Operations Karaca, Faruk*	67	Forecasting of Streamflow by Artificial Intelligence Methods Asaad, Mustafa Najat; Eryürük, Kağan*, Eryürük, Şule	
16:50 - 17:05	117	Blurring of Brands with Faster R-CNN Karslıgil, Mine Elif*, Güler, Derya*	118	Advances in Noise Control from Passive to IoT Assisted Active Control Furat, Murat*	

CHAIR	Dr. Lecturer Ali ÖZDEMİR https://meet.google.com/pwt-jxaw-fsw
18:00-19:00	<p style="text-align: center;">Presentations of Invited Speakers</p> <p style="text-align: center;">Associate Professor Dr KYUSUN CHOI (<i>Ultrasound Finger Vein Imaging System</i>) Department of Computer Science and Engineering The Pennsylvania State University, USA</p> <p style="text-align: center;">Associate Professor Dr CİHAN VAROL (<i>Foundational Problems and Limitations in Digital Forensics</i>) Department of Computer Science Sam Houston State University, USA</p>

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22.05.2021
SATURDAY/CUMARTESİ

CHAIR		Assoc. Prof. Dr. Faruk KARACA https://meet.google.com/ecp-atnd-eod		CHAIR		Asst. Prof. Dr. Zeynal TOPALCENGİZ https://meet.google.com/stc-sycq-mnv	
10:00-10:15	116	Covid-19 Diagnosis With CNN and KNN Architectures From Computed Tomography Images Kahraman, Gözde*; Civelek, Zafer	38	Improving the Bleaching Process of Soybean Oil with the Integration of Ultrasonic System Icyer, Necattin Cihat*			
10:20-10:35	78	Influence of Different Biogenic Curing Media in Self-Healing Alkali-Based Mortars Yilmazer Polat, Berivan*; Uysal, Mucteba; Korkmaz, Volkan	109	Synthesis of Chitosan Nanoparticles with Ionic Gelation Method Cakir, Ali; Tornuk, Fatih; Icyer, Necattin Cihat*			
10:40-10:55	79	A Research on the Methods Used to Determine of Impact Effect in Traditional Concrete Güngör, Hiranur*; Yilmazer Polat, Berivan	40	Deutsch – Jozsa Algorithm with Feedback Controlled FitzHugh – Nagumo Neurons Borisenok, Sergey*			
11:00-11:15	94	Degenerate Truncated Bernoulli Polynomials of Complex Variable Duran, Uğur*; Acikgoz, Mehmet	41	Feedback Control over the Charging Power of Quantum Battery Borisenok, Sergey*			

CHAIR		Assoc. Prof. Dr. Salih ÖZER https://meet.google.com/jbk-kbex-whm		CHAIR		Asst. Prof. Dr. Enver SALKIM https://meet.google.com/pyc-jvpm-wed	
10:00-10:15	93	Gould-Hopper Based Degenerate Truncated Euler Polynomials Duran, Uğur*; Acikgoz, Mehmet	61	Efficient PID Control of DC-DC Buck Converter with Grey Wolf Optimizer Algorithm Tabak, Abdülsamed*			
10:20-10:35	90	A Method Development about Fatigue Damage Estimation at Metallic Structures Using PSD Technique Ozcan, Izzet*; Akşen, T.A.; Firat, M.	77	A Novel Classification Method Based on One Dimensional Local Binary Pattern and XGBoost for Automatic Sleep Staging Yıldız, Abdulsasir; Zan, Hasan*			

10:40-10:55	107	Steering Knuckle Design, Optimization and CAE Verification Şen, Emre* ; Bayraktar, M.	81	A Review of High-Grade Nonlinear Basic Passive Circuit Elements Memcapacitor and Meminductor Demir, Eyyüp* ; Yeşil, A. ; Babacan, Y. ; Karacalı, T.
11:00-11:15	100	Runge Kutta Realization of Autonomous Underwater Vehicle and Sliding Mode Control for Trajectory Tracking Oruç, İrem Nur* ; Tilki, U.	54	The Products Obtained from Grape Seed (a by-Product of the Grape Processing Industry) and Their Usage in the Food Products Akan, Sadiye*

CHAIR	Assist. Prof. Dr. Ömer ARSLAN https://meet.google.com/uba-igxa-mtu			
10:00-10:15	32	Evaluation of Energy Storage Systems Yılkırkan, Nazile* ; Doğan, Hikmet		
10:20-10:35	33	Photovoltaic Systems and Smart Grid Integration Yılkırkan, Nazile* ; Cin, Büşra		
10:40-10:55	37	Ansys Thermal Analysis of Fluids Passing Through and Outside of the Pipe Özgen, Filiz* ; Deniz, Umut		
11:00-11:15	106	Calculation of the Theoretical Solar Energy Potential of the City of Mus Özçelik, Mahmut * ; Arslan, Ömer ; Dölek, İskender		

CHAIR	Assistant Professor Enver SALKIM https://meet.google.com/tpy-etnm-xke			
13:00-14:30	Presentations of Invited Speakers Professor Dr MESSAOUD SAIDANI (<i>Behaviour of Welded Tee-End Connections to Circular Hollow Section Members: Experimental and Numerical Investigation</i>) Associate Head (Civil), Reader in Structural Engineering Conventry University, UK Associate Professor Dr CHIN-PANG LIU (<i>Radio-Over-Fibre Techniques and Applications</i>) Dept of Electronic & Electrical Eng Faculty of Engineering Science, UCL, UK Lecturer / Senior Lecturer Dr AMEER MOHAMMED (<i>A Framework for</i>			

the Development of an Autopilot System for Unmanned Aerial Vehicles)

Head, Mechatronic Department
Air force Institute of Technology, Nigeria

**Assistant Professor Dr KOUIDER BENDINE (3D Printing of Composite
Long Carbon Fiber Opportunities and Challenges)**

University of Sidi-Bel-Abbes
Department of Mechanical Engineering, Algeria

CHAIR	ID No	ARTICLE TITLE	ID No	ARTICLE TITLE
		Asst. Prof. Dr. Necattin Cihat İÇYER https://meet.google.com/bkh-rdjb-iwb		Asst. Prof. Dr. Yusuf DOĞAN https://meet.google.com/cfa-wjkn-xhw
15:00 - 15:15	64	Effects of Different Cooking and Drying Methods (Bulgurization) on the Quality of Bulgur Akan, Sadiye*; Bayram, Mustafa	74	Determination of Contact Lengths Using Deep Neural Networks Polat, Alper*
15:20 - 15:35	65	The Importance of Water Composition on Some Characteristics of Food Products Akan, Sadiye*; Bayram, Mustafa	73	3D Printing of Composite Long Carbon Fiber Opportunities and Challenges Bendine, Koider*; Polat Yilmazer, Berivan; Polat, Alper
15:40 - 15:55	122	Investigate Geometric Features of Nerve on Neuromodulator Stimulus Current Thresholds Salkim, Enver*	84	Free Vibration Analysis of Layered Composite Beams with Delamination Damage Kahya, Volkan; Şimşek, Sebahat*
16:00 - 16:15	91	Purification of Peroxidase by Affinity Chromatography from In vitro Culture of Broccoli (Brassica oleracea Italica) Almaz, Züleyha*; Önlü, Şeyma	88	Basalt Fiber Reinforced Composites Obtained from Battery Recycling Çolak, Müslüm*; Polat, Alper
16:20-16:35	96	Liquefaction Behavior of Partially Saturated Sand Using Cyclic Triaxial Tests Zeybek, Abdülhakim*		

CHAIR	ID No	ARTICLE TITLE	ID No	ARTICLE TITLE
		Asst. Prof. Dr. Osman ÜLKİR https://meet.google.com/ffr-iaib-awg		Asst. Prof. Dr. Berivan YILMAZER POLAT https://meet.google.com/tro-tghc-pur
15:00 - 15:15	49	From Trash Gas in Kayseri Municipality Molu Waste Collecting Facility Energy and Exergy Analysis of the Electricity Generating Özdemir, Elif*; Dikici, Avdın; Elinc, Neval	35	Investigating the Effects of Bentonite Nanoparticles Addition on PVP/CMC/Gums Hydrogel Films for Biomedical Applications Idris, S. Sheikh*; Yucel, O.
15:20 - 15:35	83	Comparison of Refrigerants with Low GWP Value (<750) in Heat Pump Applications According to EN 14825 Standards Kapicioglu, Abdullah*		

15:40 - 15:55	22	Investigation of water potential and consumption Şekerci, Kürşat*	92	Baths as Cultural Heritage: Architecture, History and Culture Tangülü, Kıvanç*; Yıldız, Neslihan
16:00 - 16:15	23	Researching Water Resources Quality Şekerci, Kürşat*	70	Industry 4.0 Development Plan Awareness Analysis: Situation Determination of Bingöl Province Baki, Mehmet S.*; Erikli Cihat
16:20 - 16:35	12	Concept Design of an Autonomous Public Transportation Vehicle Özsolak, Fatma Nazlı*; Mısırlıoğlu, F., Kaplanoğlu, F.	115	The examination of oil recovery from waste bleaching earth using various solvents Elarslan, Tuğba*; Akçay, Mehmet; İcyer, Necattin Cihat
16:40- 16:55	120	A Brief Discussion on Data and Database Requirements of E-Voting Systems Demir, Eyyüp*; Çabuk, U.C.; Babacan, Y.; Karacalı, T.	121	Genetik Algoritmaya Dayalı 77 GHz Otomotiv Radarı İçin Üçgen Yama Anten Optimizasyonu Uluslu, Ahmet*