

CERTIFICATE

Of

PARTICIPATION

Youcef Brik

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Konya/Turkey.

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*Combining CNN with hand-crafted features for Diabetic retinopathy
classification*

PRESENTATION TYPE

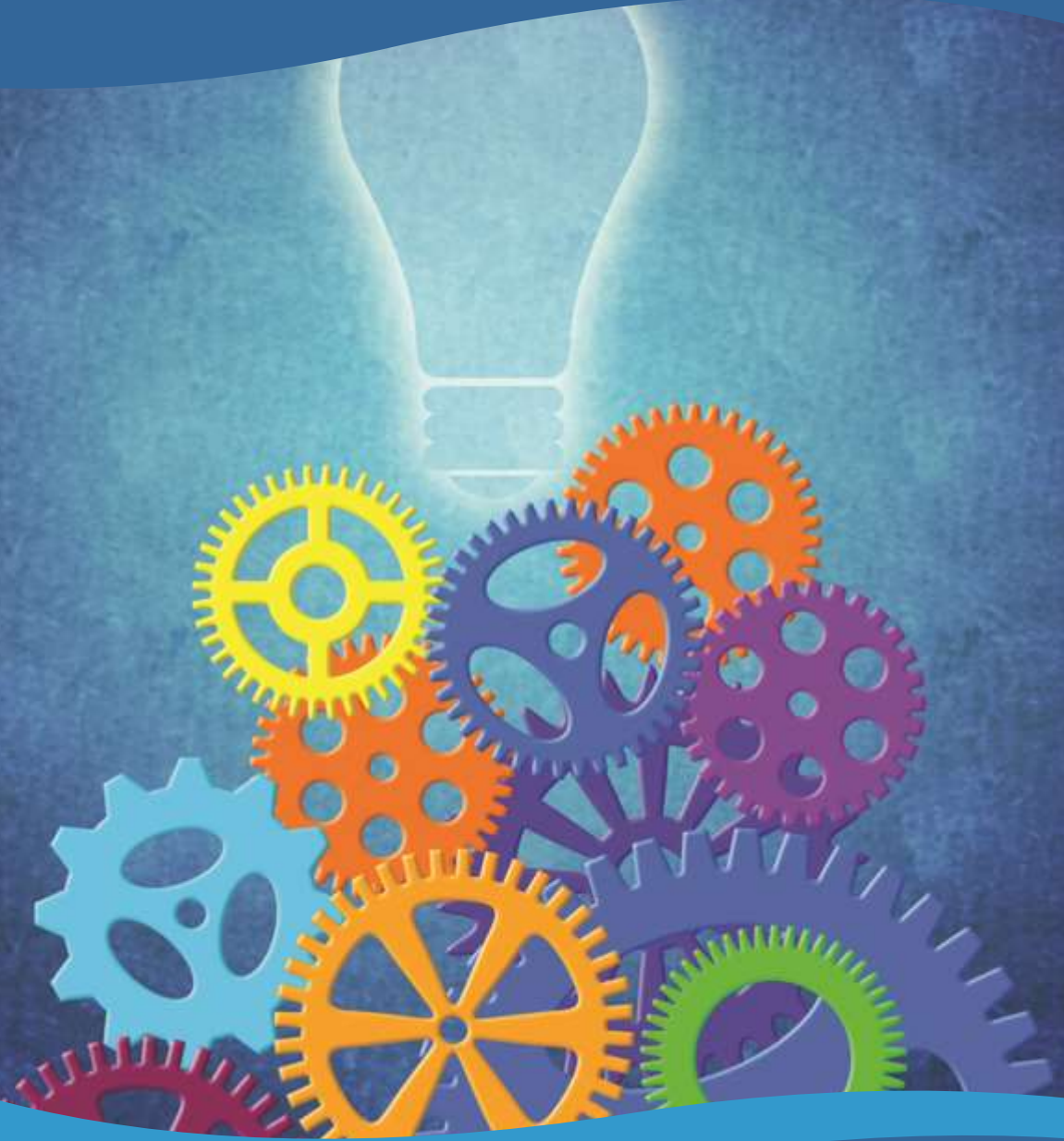
Oral


ICFAR



All Sciences Academy

ICFAR 2024



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INTRODUCTION

We had the great honor of organizing the 3rd International Conference on Frontiers in Academic Research ICFAR 2024. It was truly a great pleasure for us to greet a lot of participants from many different countries attending ICFAR 2024! We firmly believe that the conference will become an important international event in the field of cross-industry discussion about innovations in Academic Studies.

Three cooperating organizations supported the four-day conference. There were 430 papers accepted for presentation at ICFAR 2024, contributed from different countries. We had plenary speeches and several well-known scientists and experts, to give invited talks at different sessions.

The purpose of ICFAR 2024 was to provide a forum for the participants to report and review innovative ideas, with up-to-date progress and developments, and discuss novel approaches to the application in the field of their own research areas and discuss challenges of doing science.

We sincerely hope that the exchange of ideas on doing research, science and improving education will help the participants, and international cooperation sharing the common interest will be enhanced.

On behalf the Organization Committee of ICFAR 2024, we would like to heartily thank our cooperating organizations for all they have done for the conference. We would also like to thank the authors for their contribution to the proceedings; the participants and friends of ICFAR 2024, for their interest and efforts in helping us to make the conference possible; and the Editorial boards for their effective work and valuable advice, especially the ICFAR 2024 secretariat and the ICFAR 2024 staff, for their tireless efforts and outstanding services in preparing the conference and publishing the Proceedings.

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TABLE OF CONTENTS

Introduction	I
Table of Contents	II
Conference Chairs	XVIII
Scientific Committees	XIX
Document of Academic Incentive	XX
Document of International Conference	XXI

Table List of Content				
Content of Abstract Papers				
Page No	Title	Authors	Country	Submission ID
1	Towards Sustainable and Eco-Responsible Construction: Optimizing Building Envelopes with Eco-Materials and Bio-Based Materials	Mohammed KSOURI, Abdelmadjid LASLEDJ, Kamilia ABAHRI	Algeria, Algeria, Algeria	Mail Submission 1
2	Advanced Control Strategies of PMSG-Based Wind Energy Conversion System for Grid Integration	Mohamed Ferhat	Algeria	Submission 1004
3	Design of an Optimized Synergetic Regulator to Improve the Output Power of the Stand-alone WECS-based PMSG System	Mohamed Ferhat	Algeria	Submission 1005
4	Kinetics of electrodeposition of nickel and manganese alloy for a HER and OER electrocatalysis	Hizia MERKOUNE, Kamel HACHAMA, Chafia AIT RAMDANE	Algeria, Algeria, Algeria	Submission 1009
5	Legislation data on African swine fever in Republic of Albania	Blerina Luke, Jorgen Dedja, Enkeleda Ozuni	Albania, Albania, Albania	Submission 1012
6	Study by DFT the energy gap of an organic heterocyclic derivative: photovoltaïque and NLO evaluation	Ahmed Djafri, Rachida Rahmani, Nadia Taibi, Narimane Kheddami, Abdelghani Bouchama, Abdelkader Chouaih	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1014
7	Development and Validation of an R-Based Method for Accurate Quantification of Diaminobenzidine Staining in Immunohistochemical Analysis	Fares Mohamed Amine, Khenenou Tarek, Rahmoun Djallal Eddine	Algeria, Algeria, Algeria	Submission 1016
8	The affine vector fields on the oscillator group of dimension four	DERKAOU Rafik, MENAD Bendehiba, BOUICH Khalef	Algeria, Algeria, Algeria	Submission 1018
9	Computational Investigation of Optoelectronic and Thermoelectric Properties in Perovskite Materials	Lakhdar BENAHMEDI, Redouane DJELTI, Anissa BESBES, Ali Aissani, Sidahmedi BENDEHIBA	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1019
10	DECISION MAKING IN COMPLEX SYSTEM USING FUZZY LOGIC APPROACH	M. Chennoufi, A Chakhrif	Algeria, Algeria	Submission 1020
11	Decay rate of solution of a viscoelastic coupled wave equations	Benterki Djamilia	Algeria	Submission 1021
12	Thermal properties of time dependent Eckart-Hellmann potential via the Nikiforov-Uvarov-Functional Analysis method	Salim MEDJBER, Salah MENOVAR	Algeria, Algeria	Submission 1022
13	Thermodynamic functions of time-dependent coupled harmonic oscillator with a dynamic coupling term	Salim MEDJBER, Salah MENOVAR	Algeria, Algeria	Submission 1023
14	Structural determination, Hirshfeld surface analysis, NCI-RDG and molecular docking analysis of a new hydrazone derivative	Samia DJABBOUR, Nourdine BOUKABCHA, Abdelkader CHOUAIIH	Algeria, Algeria, Algeria	Submission 1024
15	Hydrothermal Synthesis and Characterization of CoCrAl Half Heusler Alloys	Azqa Farrukh Butt, Saira Riaz, Shahzad Naseem	Pakistan, Pakistan, Pakistan	Submission 1025
16	Short-Chained Spacer Cation Employing Formamidinium-Based Quasi-2D Ruddlesden-Popper Perovskite Solar Cells with Efficiency exceeding 16%	Murat EBİC	Turkey	Submission 1030
17	Investigation of Electrical Equivalent Circuits for Contaminated Cap and Pin Insulators	Khaled Belhouichet	Algeria	Submission 1031
18	Advances in High-Temperature Superconducting Materials and Applications in Power Grids	Khaled Belhouichet	Algeria	Submission 1032
19	Enhancing Solubility and Antioxidant Activity of Thymus vulgaris Essential Oil through β -Cyclodextrin Complexation	Fadia Benchallal, Hayet Belkacemi	Algeria, Algeria	Submission 1036
20	Numerical Solutions of Initial- Boundary- value problems and Periodic Boundary conditions	DERKAOU Rafik, MENAD Bendehiba, BOUICH Khalef	Algeria, Algeria, Algeria	Submission 1037
21	Optical properties of WSe ₂ monolayer	LOUAFI Widad, REZOUALI Karim, LOUNIS Samir	Algeria, Algeria, Algeria	Submission 1038
22	Control of a Variable Speed Wind Turbine	Abdelghafour HERIZI, Riyadh ROUABHI, Abderahim ZEMMIT, Fayssal OUAGUENI, Ahcene ABED, Abdelhafid BENYOUNES	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1039
23	TD-DFT study, Hirshfeld surface analysis, NCI-	Khaled Drim, Youcef Megrouss,	Algeria, Algeria,	Submission 1040

	RDG, HOMO-LUMO, chemical reactivity and NLO properties of an organic compound	Nourdine Boukabcha, Mansour Azayez, Salem Yahiaoui	Algeria, Algeria, Algeria	
24	RAPD-PCR fingerprints of rhizospheric bacteria associated with with legumes	LAABAS Saadia, SILARBI Tayeb, BOUKHATEM Zineb Faiza	Algeria, Algeria, Algeria	Submission 1041
25	Investigation into the Impact of L-Shaped RC Shear Wall Placement with Openings on the Behavior of Medium-Rise Buildings	Salem Merabti, Abdellah Boudina	Algeria, Algeria	Submission 1044
26	Structural, electronic, mechanical, magnetic, and optical properties of the Heusler compound Co ₂ NiAl : Perdew, Burke, and Ernzerhof generalized gradient approximation	Rachid Masrour	Morocco	Submission 1045
27	Electronic, magnetic, thermoelectric and thermodynamic properties of TiM(M=Mn,Cr)Ga Heusler: Density functional theory	Rachid Masrour	Morocco	Submission 1046
28	Magnetocaloric effect of three-layers composed with three spins (1/2; 2 and 3/2): A Monte Carlo study	Rachid Masrour	Morocco	Submission 1047
29	Optimal allocation of wind energy power and solar PV using walrus optimization algorithm	Rehail Ayoub	Algeria	Submission 1050
30	Delipidation of the fourth food legumes: Coral lentil, Chickpea, Pea, and Bean	Allala Ilham, Alem Karima, Boumendjel Amel	Algeria, Algeria, Algeria	Submission 1051
31	Enhancing Adhesion and Thermal Stability of Malva Fiber for Sustainable Construction Materials	Kattia YALAOUI, Idris ZEMBOUAI, Mustapha KACI, REMILA Brahim	Algeria, Algeria, Algeria, Algeria	Submission 1052
32	Degradation Study of Magnesium alloy in Hank's solution	Saida. Bouyegh, Hadda Rezzag, Sabrina Ladjama, Sihem Benayache, Samira Tlili	Algeria, Algeria, Algeria, Algeria	Submission 1053
33	Innovative Pathways for Sustainable Fuel Production: Converting Bio-Crude into Renewable Petrol & Diesel	Maryam Bibi	Pakistan	Submission 1054
34	Does technology have an impact on the physical, chemical and microbiological quality of raw milk?	SILARBI Tayeb, TEFIEL Hakim, AMIRAT Mokhtar, ABDELLAH Fatiha, HAMDEN Khaled	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1058
35	Drug Release From Biodegradable pH-Thermosensitive Hydrogel of Chitosan-PEG-Poly (Acrylic Acid)	Abir Derbali, Bouzid Djallel	Algeria, Algeria	Submission 1059
36	Revising Settlement Prediction Techniques for Rapid Rail backfill with Advanced Pressuremeter Solutions	Chalabi Youssef, Zadjiaoui Abdeldjalil, Aissaoui Soufyane, Mouaissa Mohamed Salah, Brixi Abderrahim	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1061
37	Tsallis statistics and the sound velocity in the quark-gluon plasma	Lebba Ghenam	Algeria	Submission 1064
38	Algerian University Students' Insights and Expectations in English Phonetics Education: Case of ENS Oran	Lynda DALI YUCEF	Algeria	Submission 1065
39	HETEROGENEOUS AND HOMOGENEOUS PHOTOCATALYTIC DEGRADATION OF ANIONIC DYE IN AQUEOUS SOLUTION	Mohamed Seghir Zahira, Khelladi Malika, Mezouagh Amina	Algeria, Algeria, Algeria	Submission 1066
40	On a continuous positive solutions for a reaction-diffusion model	Salim Mesbahi, Samiha Djemai	Algeria, Algeria	Submission 1069
41	Quenching Reaction-Diffusion Systems in Bioengineering	Samiha Djemai, Salim Mesbahi	Algeria, Algeria	Submission 1070
42	New Optimized Variational Mode Decomposition for Bearing Fault Diagnosis	Yahia Bousselob, Ali Belhamra	Algeria, Algeria	Submission 1071
43	Exploring the Influence of Religion on Social Deviance in Turkey: A Mixed-Methods Study	Büşra Ortayakaya, Murat YILMAZ	Turkey, Turkey	Submission 1073
44	Optimizing a-ITZO TFTs: Comparative Analysis of Dielectric Material Enhancements	Djemâa Ben Othmane, Nozha El Ahlem Doghmane, Abdellaziz Doghmane	Algeria, Algeria, Algeria	Submission 1075
45	Cultivating Chlorella: From Bloom to Biofertilizer	CHAREF Nassira, TAMER Fatma Zohra, SAADA Zakia, BELAID Bouthaina, Zaidi Hadjer, ELLEUCH Jihen, NASRI Hichem	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1078
46	Analysis of Natural Fiber Processing Techniques for Bio-Based Building Material Applications	Adel Baghdad Zougar, Ahmed Soufiane Benosman, Farid Brahim Houti, Abdelmadjid Lasledj, Imane Fatima Zohra Mesli, Abdelhak Badache	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1080
47	One-dimensional modeling of DBDs FOR Silane, Principle and Applications to plasma	Barkahoum Larouci, Amar Benmoussa, Ahmed Belasri	Algeria, Algeria, Algeria	Submission 1085
48	Visual E-Commerce Products Recommendations Using Transfert Learning	Abderaouf Bahi, Ibtissem Gasmî, Sassi Benrad	Algeria, Algeria, Algeria	Submission 1089
49	Revolutionizing Structural Analysis: Crafting a Rectangular Finite Element for Membrane Structure Investigations	Randa Bourenane, Sifeddine Abderrahmani, Abdulrahman M. AL-Nadhari	Algeria, Algeria, Algeria	Submission 1090
50	Electrooxidation of Harmful Agricultural Chemicals	Akbeý Apaydın, Ece Ezgi Aluç, Ahmed Albahnasavi, Ercan Gürbulak, Mesut Tekbaş, Nurullah	Turkey, Turkey, Turkey, Turkey, Turkey, Turkey, Turkey	Submission 1091

		Özdoğan, Sahar Alhout, Havva Ağır Sarı, Murat Eyvaz, Ebubekir Yüksel	Palestine, Turkey, Turkey, Turkey	
51	Sulfate Radical Based Oxidation of Pharmaceuticals	Ece Ezgi Aluç, Akbey Apaydın, Ahmed Albahnasavi, Ercan Gürbulak, Mesut Tekbaş, Nurullah Özdoğan, Sahar Alhout, Havva Ağır Sarı, Murat Eyvaz, Ebubekir Yüksel	Turkey, Turkey, Turkey, Turkey, Turkey, Turkey, Palestine, Turkey, Turkey, Turkey	Submission 1092
52	Academic Research at The Institute of Physical Education And Sports	Agboubi habib	Algeria	Submission 1095
53	Numerical Analysis and Optimization of Film Cooling Techniques for Aeronautical Gas Turbines with ANSYS Fluent	Kamal Abouelmajd, Ismail Lagrat, Salim Zahid, Hamid Mounir	Morocco, Morocco, Morocco, Morocco	Submission 1098
54	AFFINE TRANSLATION SURFACES IN 3-DIMENSIONAL EUCLIDEAN SPACE	Brahim. Medjahdi, Hanifi. Zoubir, Abdelkader Belhenniche	Algeria, Algeria, Algeria	Submission 1104
55	Design ,Synthesis and Preliminary Biological Screening of Some novel substituted alkoxy pyridines as Potential Anti-HCV	Rasha Y. ElBayaa, Manal N.Saudi, Ahmed Abdelmoaty, Fawzya M. A. Ashour, Abeer E. Abdel Wahab	Egypt, Egypt, Egypt, Egypt, Egypt	Submission 1105
56	Estrogen and Cancer Relationship	Deniz Uluişik	Turkey	Submission 1109
57	Organokines	Deniz Uluişik	Turkey	Submission 1110
58	Verimliliği Etkileyen Faktörler: Bir Mobilya Fabrikası Örneği	Mehmet ÇOLAK, Büşra ÖZDEMİR	Turkey, Turkey	Submission 1114
59	Structural, morphological and optical changes in Cadmium Sulfide Thin Films implanted with Cu ions	M. Intiaz Khan, Abbas Khan, M. Usman	Pakistan, Pakistan, Pakistan	Submission 1115
60	Mechanical Properties and Structure of Poly (3-Hydroxybutyrate-co-3-Hydroxyvalerate)/Polylactide (PHBV/PLA)	Brahim Remila , Idris Zembouai, Lynda Zaidi, Kattia Yalaoui, Mustapha Kaci, Antoine Kervoelen, Stéphane Bruzard	Algeria, Algeria, Algeria, Algeria, Algeria, France, France	Submission 1117
61	Tuz stresine karşı bitki korumada absisik asidin rolü	Basti Asadova	Azerbaijan	Submission 1118
62	Changes caused by extreme factors in various organs of plants	Basti Asadova	Azerbaijan	Submission 1119
63	Studying the possibility of soil collapse: a case study in southern Algeria	Mohamed DACHER, Ouassila BAHLOUL, Samir BENMOUSSA, Fodil DIF	Algeria, Algeria, Algeria, Algeria	Submission 1126
64	Extraction and characterization of orange peel fibers	Atmane YAHIAOUI, Noura HAMOUR	Algeria, Algeria	Submission 1129
65	Reflections of Ahi Organization in Contemporary Business Management	Caner ASBAŞ	Turkey	Submission 1130
66	The Strength of Earth Bricks	Hammache Soumia	Algeria	Submission 1132
67	On the strong iniform consistency of the conditional density for censored data based on a recursive kernel	SEMMAR Sihem	Algeria	Submission 1133
68	Modelling of the dynamics Evolution of Species Present in a Pure Gas O2 By Crown Discharge	Ferouani Abdel Karim, Belhour Souad, Benmansour Sid Ahmed, Abdelli Imane	Algeria, Algeria, Algeria, Algeria	Submission 1135
69	Investigating the Reparative Role of Erica multiflora in an In Vivo Diabetic Model Induced by Streptozotocin: Assessment of Oxidative Stress Parameters	BENMANSEUR Anfel, HAB Fatma Zahra, DERGUINE Rania, TACHOUR Rechda Amel, TACHERFIOU Mustapha, KHETTAL Bachra, REZGUI Abdelmalek, SOBHI Widad	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1140
70	Matlab-Based Performance Assessment of the Affine Hill Cipher	Gülbahar Akgün	Turkey	Submission 1142
71	Utilizing Eco-Friendly Scolymus Maculatus for Efficient Basic Blue Dye Removal via Adsorption Process	HAMADI Amel, YEDDOU-MEZENNER Nacera, KAIS Hiba, BANSAAZI Zohra	Algeria, Algeria, Algeria, Algeria	Submission 1145
72	Ethical Awareness and Moral Development in Teacher Education: Pedagogical Approaches and Impact on Professional Practice	Sehrish Khalid, Shan Mahmood, Afshan Naseem	Pakistan, Pakistan, Pakistan	Submission 1146
73	Valorization of an agroalimentary waste applied in the treatment of pharmaceutical pollutant wastewater	KAIS Hiba, YEDDOU-MEZENNER Nacera, HAMADI Amel, BENSAAZI Zohra, BELAS Ahmed, GHOUMRASSI Mohamed	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1147
74	Study of the anticancer activity of a medicinal plant from Algeria	Renda CHAHNA	Algeria	Submission 1152
75	Comparison of Conventional Pocket Machining Strategies	Elhachemi Bahloul	Algeria	Submission 1153
76	YERELLEŞMİŞ YÜZEY PLAZMON REZONANS SPEKTROSKOPİSİ İLE YÜZEY PLAZMON REZONANS SPEKTROSKOPİSİNİN SENSÖR UYGULAMALARINDA KARŞILAŞTIRMALI İNCELENMESİ	Gülan Bingöl	Turkey	Submission 1154
77	Migration Dynamics and Economic Development: Assessing the Influence of Migration on Economic Growth and Labor Market	Liridona Nikqi, Fisnik Morina	Albania, Albania	Submission 1155
78	Enhancing Gate Capacitances Through a new SOI	Abid Lamia, Ben Othmane Djemâa,	Algeria, Algeria,	Submission 1156

	MESFET Structure	Abdaoui Norelimene	Algeria	
79	Ozonlanmış UHMWPE Liflerin Yüzey Modifikasyonu	İdil Yiğit, Semiha Eren, Zaide Saka, Nebahat Aral Yılmaz, Yahya Öz	Turkey, Turkey, Turkey, Turkey	Submission 1157
80	Flood Damage assessment of Wadi Deffa in El Bayadh city using HEC Ras 2D	Djafri Sid Ali, Benabid Seyfeddine, Hafnaoui Mohammed Amin, Cherhabil Sonia	Algeria, Algeria, Algeria, Algeria	Submission 1160
81	Water Absorption and Hygrothermal Aging Behaviors of Polyamide 66/Maleated Polypropylene/Nanoclay Nanocomposites	Benalia Kouini	Algeria	Submission 1161
82	TREATMENT OF HOUSEHOLD WASTE LEACHATE FROM THE CITY OF MOSTAGANEM BY INTENSIVE AERATION	Guerroud Nor Eddine, Terkhi Mohammed Cherif, Benderdouche Nouredine	Algeria, Algeria, Algeria	Submission 1166
83	Use of cactus as a natural coagulant for seawater treatment	Lila Kerrai, Nour el houda Daoud , Kaouthar Azari, Rahil Nadouri, Ikhlaz Boudjoudi, Samira tebani, Samir Ladjali	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1167
84	Effect of surface acidity of the catalyst on Biofuel production	Birce Pekmezci Karaman	Turkey	Submission 1169
85	TEKİL DEĞER AYRIŞIMI İLE GRİ DÜZEYDE İMGE DAMGALAMA	Emine Aksu, Murat Karakoyun	Turkey, Turkey	Submission 1170
86	Humidity effect study on thermal degradation of polyacrylic acid (PAA) by microcalorimetric measurements	Naziha Bensahla, Aicha Barra	Algeria, Algeria	Submission 1171
87	Reduction of Wastewater Turbidity Using Biomaterials	Samir Ladjali, Lila Kerrai, Samira Tebani	Algeria, Algeria, Algeria	Submission 1172
88	DÜNYA KUPASINA KATILACAK MODERN PENTATLON SPORCULARININ SPORTMENLİK YÖNELİMİNİN VE SPORCU RUH SAĞLIĞI DÜZEYLERİNİN İNCELENMESİ	Serhan Sabri HAMAT, Belgin GÖKYÜREK	Turkey, Turkey	Submission 1173
89	Study of electrical resistivity of hafnium in the wide temperature range using classical and quantum mechanical methods	Zafer Doğan, Tural Mehmetoğlu	Turkey, Turkey	Submission 1175
90	Study of specific heat capacities of aluminum boron nitride (AlBN ₂) using Einstein-Debye approximation	Zafer Doğan, Tural Mehmetoğlu	Turkey, Turkey	Submission 1176
91	Consumer perception on use of food processing waste in preparation of functional food: A review	Tusneem Kausar, Ashiq Hussain	Pakistan, Pakistan	Submission 1179
92	Efficient Replication Strategy for Mobile CHORD with Reduced Network Overhead	Hamza Khemliche, Meriem Messaoudi, Ouafia Belgherbi, Samah Boudour, Leila Lamiri, Fayçal Medjili	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1181
93	Computational study of the inclusion of a local anesthetic in cavities of two cyclodextrins	Nourredine Meddah-Araibi, Tefaha Fergoug, Mansour Azayez, Youcef Bouhadda	Algeria, Algeria, Algeria, Algeria	Submission 1186
94	ENERJİ DEPOLAMA SİSTEMLERİ	Nurullah AKGÜN, Serdal DAMARSEÇKİN	Turkey, Turkey	Submission 1189
95	Flow and Thixotropic Parameters for Rheological Analysis of Cosmetic Moisturizing Cream	Fouzia Benoudjit, Hassina Boussak	Algeria, Algeria	Submission 1190
96	Insight into structural, electronic, elastic and magnetic properties of full Heusler alloys by DFT investigation	Righi AYA, Bendahma FATIMA, Labdelli ABESS, Mechehoud KHEDIDJA, Mana MOHAMED, Achir Bilel	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1193
97	A Deep Based Approach for Pre-Classifying Skin Diseases With Using Artificial Intelligence Techniques	Ali Berkan URAL	Turkey	Submission 1194
98	Parasitically Coupled F-Shaped Microstrip Antenna for 2.4 GHz Wi-Fi Applications	Yağız Haktan Gözkaman, Recep Taha Cansuyu, Rozerin Turan, Merih Palandöken	Turkey, Turkey, Turkey, Turkey	Submission 1196
99	Effect of biofertiliser on the variation in polyphenol content of aqueous extracts from tomato leaves (Lycopersicon esculentum Mill)	Amara Nacira, Amara Sabrina, Chaib Selma, Draï Wissem	Algeria, Algeria, Algeria, Algeria	Submission 1199
100	A different set of methods was utilized to calculate the Urbach energy and optical gap energy of Zn-doped NiO thin films formed by spray pyrolysis	Maghni Cherif, Zauouche Chouaieb, Dahbi Laid	Algeria, Algeria, Algeria	Submission 1202
101	From short dry spells to very long dry spells – case study of Shkodra city	Tanja Porja, Klaudio Peqini	Albania, Albania	Submission 1206
102	Effect of Temperature on Bioethanol Production from Liquid Waste Generated after Extraction	FERROUDJ Nawal, BENSEFIA Chaima, KAHALERRAS Fatma	Algeria, Algeria, Algeria	Submission 1207
103	Global dynamics and mathematical study for a heroin hybrid model	Zirar Imane Hana, Lakmeche Abdelkader, Touaoula Mohamed Tarik, Helal Mohamed, Bensid Yazid	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1209
104	Öğretmenlerin Bilinçli Farkındalık Düzeyleri ile Psikolojik Sağlamlık Düzeyleri Arasındaki İlişkinin İncelenmesi	Mücahit DURSUN	Turkey	Submission 1210
105	Comparative Analysis of Time Series and Machine Learning Forecasting Methods: Effectiveness and	Selin SARAÇ GÜLERYÜZ	Turkey	Submission 1220

	Applicability Across Domains			
106	Blowing-up solutions for time-fractional differential equations	Abdelatif Boutiara	Algeria	Submission 1223
107	Kolaviron isolated from Garcinia kola seed inhibits snake venom phosphodiesterase activity	Azubuikwe Ikechukwu Okafor	Nigeria	Submission 1224
108	Comprehensive Characterization of Eco-Friendly marine Algae based Composites	Hafssa Atlas, Boukhelifi Fatima	Morocco, Morocco	Submission 1225
109	Green Alternatives for Dye Removal: Comparative Study of Seaweed and Sugarcane Bagasse	Hafssa Atlas, Smail Imame, Hafssa El-Idrissi, Khaoula Loukili, Boukhelifi Fatima	Morocco, Morocco, Morocco, Morocco, Morocco	Submission 1226
110	Analyzing the Existence of Solutions for Caputo Fractional q-Differential Equations with Variable Order	Zineb Bellabes, Naima Boussekkine	Algeria, Algeria	Submission 1228
111	optimization for high-efficient and more stable RbGeI ₃ perovskite solar cells	Abdelkader Bouhenna, Kada BOUALEM, Nabil Beloufa, Soufi Hadjer	Algeria, Algeria, Algeria, Algeria	Submission 1229
112	Effects of Salt Stress on Germination and Seedling Growth of Sweet Corn	Birgul Guden	Turkey	Submission 1231
113	Characteristic study of the morphology, electronic conductivity and thermal degradation of PLA biopolymer and its ZnO composites	Noudjoud HOUAS, Delloula LAKHDARI, Hanane TOUHAMI	Algeria, Algeria, Algeria	Submission 1232
114	Types of Misconceptions and Diagnostic Instruments Used to Identify Students Misconceptions in Chemistry Subject	Yam Pui Mun, Corrienna Abdul Talib	Malaysia, Malaysia	Submission 1233
115	Frontiers in Soil Science: Integrating Optical and Radar Remote Sensing for Superior Soil Moisture Estimation in Kairouan, Tunisia	Mohamed Rajhi, Endre Dobos	Hungary, Hungary	Submission 1234
116	Effect of the Temperature Regime Variations on Heat Treatment Process of Nanocrystalline-based Magnetic Cores	Taylan Günes	Turkey	Submission 1236
117	Preparation and study of the effect of Nd substitution on structural and microstructural properties of La _{0.7-x} Nd _x Ba _{0.2} Sr _{0.1} MnO ₃ (x=0.00 and x=0.05) manganite compounds	Fatih DENBRI, Nabil MAHAMADIOUA, Sadek BOUFLIGHA	Algeria, Algeria, Algeria	Submission 1239
118	Quasistatic Contact with Wear in Electro-Elasto-Viscoplastic Solids with Damage	Laldja Benziane, Nemira Lebri	Algeria, Algeria	Submission 1244
119	Fractional p-Laplacian in Singular Elliptic Problem with Discontinuous Nonlinearity	H. Achour, S. Bensid	Algeria, Algeria	Submission 1245
120	Contribution to the study of antioxidant activity of Aqueous extract of Thymus vulgaris	Mohamed Khiari, Zine Kechrid	Algeria, Algeria	Submission 1246
121	Fabrication Of Flexible Thin Film Substrates By The Extraction Of CNCs From Cellulosic Materials	Abdul Basit, Hafeez Anwar	Pakistan, Pakistan	Submission 1249
122	Language, Culture, and Ecology: Investigating ECLA Levels at Graduate-Level Education	Vesna Prodanovska-Poposka	North Macedonia	Submission 1250
123	The shortening structures following the Mw 7.6 Elbistan (Türkiye) 2023 Earthquake	Mehmet Köküm	Turkey	Submission 1253
124	Introduction to Artificial Intelligence and Machine Learning Algorithms: A Review	Muhammad Umer Karimi, Sardar Muhammad Abubakar, Shiekh Junaaid Mustafa, Burhan Ahmad	Pakistan, Pakistan, Pakistan, Pakistan	Submission 1261
125	Characteristic study of the morphology, optical capacity and thermal degradation of PLA biopolymer and its ZnO composites	Noudjoud HOUAS, Delloula LAKHDARI, Hanane TOUHAMI	Algeria, Algeria, Algeria	Submission 1265
126	The Contribution of Greenhouse Gas Emission Mitigation of Recycling Waste	Faruk KOÇAK, Zeynep EREN	Turkey, Turkey	Submission 1268
127	Effects of cannabis on multiple visual parameters and self-perceived eyesight: A cross-sectional study in cannabis users in Morocco	Karima Raoui, El Mehdi Wakrim, René J. Combe, Mohamed Cherkaoui, Abderrahman Chait	Morocco, Morocco, Morocco, Morocco, Morocco	Submission 1272
128	Experimental Assessment of Parameter Identification Techniques for Leroy-Somer Emerson Permanent Magnet Synchronous Motors (PMSM)	Aissa Redhouane Harkat, Linda barazan, Larabi Abdelkader, Abdelouadoud Loukriz, Abderrahim Zemmit	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1273
129	Elimination of Gentian violet in water using Barbary fig seeds as bio-coagulant	MOKHATI Aya, AISSOUS Bochra, FERROUDJ Nawal, BENALIA Abderrezzaq, DERBAL Kerroum	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1274
130	Functional properties of bioactive compounds from Spirulina sp.	Saada zakia, charef nassira, Tamer fatma zohra, Belaid Bouthaina, Nasri hichem	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1275
131	Optimizing Physical and Photocatalytic Performance of ZnO Thin Films Through Varying Thickness in SILAR Deposition	Hadjer Barkat, Yousra Khadraoui, Elhachmi Guettaf Temam, Rahmane Saâd	Algeria, Algeria, Algeria, Algeria	Submission 1276
132	Effect of film thickness on the electrical properties of pure Zinc oxide thin films	Hadjer Barkat, Yousra Khadraoui, Elhachmi Guettaf Temam, Rahmane Saâd	Algeria, Algeria, Algeria, Algeria	Submission 1277
133	Photogrammetry Through the Luma AI Application and the Possibilities of its Use in Education	Gergely Kocsis, Ondrej Takáč	Slovakia, Slovakia	Submission 1283
134	Modeling of soil consolidation around the tunnels	Ibrahim MAHROUG, Abdelhafid	Algeria, Algeria	Submission 1284

		MAHROUG		
135	Iron doped Zinc Oxide: optical and structural properties	Abdelhafid MAHROUG, Ibrahim MAHROUG, Samia MEDJENAH	Algeria, Algeria, Algeria	Submission 1285
136	Solutions of (1+1)-dimensional Dirac equation with for some models of symmetric PT potentials and position-dependent mass by using SUSY QM approach	Samia MEDJENAH	Algeria	Submission 1286
137	The optoelectronic properties of novel Lithium tetrafluoroaurate (III) LiAuF ₄ : First-principles calculations	Ishak Mebarkia	Algeria	Submission 1288
138	Grey Wolf Optimization and Particle Swarm Optimization- Support Vector Regression Approach for Predicting HLB of Surfactant	Nada Boukelkal, Soufiane Rahal, Redha Rebhi, Mabrouk Hamadache	Algeria, Algeria, Algeria, Algeria	Submission 1289
139	Durability of Mortars Prepared with Addition of glass powder, Slag, and natural pozzolan	Boubakeur Seddik Elbahi, Leila Zeghichi, Fodil Dif, Bachir Elbahi	Algeria, Algeria, Algeria, Algeria	Submission 1290
140	Determination of the Effect of Progressive Muscle Relaxation Exercises on the Perceived Stress Level of Nursing Students Before the Clinical Practice of Mental Health and Diseases Nursing Course	Ozden Yuvalı, Berna Bayır	Turkey, Turkey	Submission 1293
141	Evaluating Mechanical and physical properties of recycled HD-PE Biocomposites reinforced with Esparto grass and natural Pozzolan.	Bouchra Achour, Abdelkader Ziadi, Lahcen Belarbi, Allel Mokaddem, Abdelkader Lousdad	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1297
142	Preparation and effect of 10% Sn substitution for Mn on La _{0.7} (Ca,Ba) _{0.3} MnO ₃ compound's structural and electrochemical corrosion behavior in 3 wt. % NaCl solution	Sadek Boufligha, Nabil Mahamdioua, Fatih Denbri, Benzaid Roumaissa, Belhour Amina	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1298
143	Using the AHP to Identify Priority Bridges for Seismic Resilience Enhancement	Mohammed Abdellaoui, Mohamed Badaoui, Mahmoud Ben saibi, Said koriga	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1299
144	Comparative Study of Optimization of Phenolic Compounds Using ANN and RSM Models	BENMANSEUR Anfel, HAB Fatma Zahra, DERGUINE Rania, TACHOUR Rechda Amel, TACHERFIOUT Mustapha, KHETTAL Bachra, REZGUI Abdelmalek, SOBHI Widad	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1300
145	Destructive and Non-Destructive Evaluation to study of Plastic Waste Aggregate Mortar	N. Latroch, A.S. Benosman, A. Badache, M.Hacini, M. Mouli, O. Safer	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1302
146	Unlocking the Power of Artificial Intelligence: Building Digital Twins with Classification Algorithms for Optimized Geothermal Drilling	Orkun TEKE	Turkey	Submission 1303
147	OPTIMIZING EMOTION RECOGNITION: MULTIMODAL ANALYSIS OF TEXT AND AUDIO WITH METAHEURISTIC ALGORITHMS	G. Janaki, R. L. Jasmine	India, India	Submission 1304
148	Effectiveness of the Geneious Prime Software in High Throughput Sequencing Data Analysis of Plant Viruses	Serkan Önder	Turkey	Submission 1309
149	Combining CNN with hand-crafted features for Diabetic retinopathy classification	Abderaouf Moustari, Youcef Brik, Bilal Attallah	Algeria, Algeria, Algeria	Submission 1310
150	Deep neural networks for an accurate palmprint recognition system across multiple instances	Nadir Cheyma, Attallah Bilal, Brik Youcef	Algeria, Algeria, Algeria	Submission 1311
151	Investigating the QCD Equation of State at Finite Temperature and Chemical Potential	Amal Ait El Djoudi, Rokaya Djida, Faiza Ramdani	Algeria, Algeria, Algeria	Submission 1312
152	Low-temperature sol-gel synthesis of mullite precursor powder: characterization, sintering behavior, mechanical properties	Ahcen Keziz, Meand Heraiz	Algeria, Algeria	Submission 1314
153	A scoping review on games-based learning approaches in chemistry education	Wan Nor Azlina Wan Abdullah, Corrienna Abdul Talib	Malaysia, Malaysia	Submission 1316
154	Challenges and Approaches to Motivate Students in Learning Chemistry: A Scoping Review	Syaida Ab Manaf, Corrienna Abdul Talib	Malaysia, Malaysia	Submission 1317
155	A Review of AI-Based Approaches against Wormhole and Blackhole Attacks in AODV Protocol	Zainab Bashir Ibrahim, Mayada Faris Ghanim	Iraq, Iraq	Submission 1323
156	Impact of Thermal Aging and Water Absorption on the Mechanical Properties of 18/30 kV XLPE-Insulated Cables	Hani Terfa, Saad Chouch, Younes Hamache, Sayah Merazi	Algeria, Algeria, Algeria, Algeria	Submission 1326
157	Detection of Diabetic Retinopathy Using a Pre-trained Inception-v3 Model	Ishaq Aiche, Youcef Brik, Bilal Attallah	Algeria, Algeria, Algeria	Submission 1327
158	Scoping review: non-traditional approaches to enhancing student learning in chemistry education	Li Lefan, Corrienna binti Abdul	Malaysia, Malaysia	Submission 1328
159	Promoting Energy Efficiency and Sustainability in High-Rise Buildings: A Critical Review	Emaan Ishaq, Burhan Ahmad	Pakistan, Pakistan	Submission 1330
160	Machine Learning Techniques for Material Property Prediction: ZnO and Zn-ion Battery Material Case Studies	Amine bayoud, Raidou abderrahim	Morocco, Morocco	Submission 1332
161	Enhancing Energy Efficiency of Existing High-Rise Buildings: A Comprehensive Review	Emaan Ishaq, Burhan Ahmad, Muhammad Ayyaz Haider Bhatti	Pakistan, Pakistan, Pakistan	Submission 1333
162	Structural Insulated Panels (SIPs) in Construction;	Emaan Ishaq, Burhan Ahmad	Pakistan, Pakistan	Submission 1334

	Energy Efficiency, Seismic Performance and Sustainability: A Review			
163	Numerical Study on the Coupled Effect of Particles Concentration and Flow Velocity on Their Transport and Deposition in Saturated Fractured Media	Bouragaa Kheira, Bennacer Lyacine, Ahfir Nasre-dine	Algeria, Algeria, Algeria	Submission 1336
164	Sequential Approach for Landfill Leachate Treatment: Coagulation-Flocculation and Advanced Oxidation Processes Activated by UV/Ultrasound	Hamza Bellouk, Imane El Mrabet, Karim Tanji, Mostafa Nawdali, Hicham Zaitan	Morocco, Morocco, Morocco, Morocco, Morocco	Submission 1337
165	Numerical Analysis on the Effect of Bar Diameter on Bond Stress-Slip Behavior in ABAQUS	Sana Shaukat	Pakistan	Submission 1342
166	Response Surface Optimization of Bioactive Phenolic Compound Extraction from Orange Peels	Sid Ahmed El Khalil AHED MESSAOUD , Khedidja BENOUI, Anes GHAZI, Marwa Lamise HAMEL, Sabrina OULAD BRAHIM	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1344
167	Flaxseed (Linum usitatissimum L.) as a Natural Coagulant for Urban Wastewater treatment: Optimizing Colloidal Matter Removal using Response Surface Methodology	Anes GHAZI, Khedidja BENOUI, Sid Ahmed El Khalil AHED MESSAOUD, Sabrina OULAD BRAHIM, Marwa Lamise HAMEL	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1345
168	Visible-Light Driven Photocatalytic Degradation of Congo Red with Zinc Oxide : Process Optimization using Box-Behnken Design	Sabrina OULAD BRAHIM , Khedidja BENOUI, Marwa Lamise HAMEL, Anes GHAZI, Sid Ahmed El Khalil AHED MESSAOUD	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1346
169	Mean-field study of magnetic properties in a bilayer graphene Ising system	Mohammed Salama, Nabil Hachem, Elbachir Dahbani, El Bouâzzaoui Choubabi	Morocco, Morocco, Morocco, Morocco	Submission 1347
170	Enhanced Visible-Light Photocatalytic Degradation of Methylene Blue with Copper (II) Oxide: Process Optimization using Box-Behnken Design	Marwa Lamise HAMEL, Khedidja BENOUI, Sabrina OULAD BRAHIM, Sid Ahmed El Khalil AHED MESSAOUD, Anes GHAZI	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1348
171	Weyl–Dirac Equation in Fractional-Dimensional Space: GRAPHENE IN THE PRESENCE OF AN ELECTROMAGNETIC FIELD	Asma MERAD, Souheib MERAD	Algeria, Algeria	Submission 1349
172	Characterization of TiO2 nanoparticles synthesized by modified co-precipitation method	S. Hadjab, F. Boufelgha, N. Brihi1, R. Zellagui, MC. Benachour, F. Labreche, M. khiat	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1351
173	Study of an in depth characterization of discharges from the exploitation of iron ore cae of the El'Ouenza mine	BOUZERIBA Hadjer, BOUZIDI Nedjima, IDRES Abdelaziz, LAALA Imen	Algeria, Algeria, Algeria, Algeria	Submission 1352
174	CHARACTERIZATION OF PHOSPHATE REJECTS OBTAINED FROM THE PHOSPHATE ORE TREATMENT OF DJEBEL ONK (TEBESSA NE ALGERIA)	LAALA Imen, BOUZIDI Nedjima, ELICHE-QUESADA Dolores, BOUZERIBA Hadjer	Algeria, Algeria, Spain, Algeria	Submission 1353
175	Coordination and electronic structure of monometallic complexes: DFT investigation	MERAD Sara, Aimene Nadjet, Mecheri Sabri, Zaiter Abdellah, Zouchoune Bachir, BOUAICHA Abderrachid, HADJADJ Mekki	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1354
176	Common fixed point theorem for multi-valued generalized contractive mappings in b-metric spaces	Merad Souheib	Algeria	Submission 1355
177	Formulation of Curcuminoid-Based Dental Films for Treating Oral Cavity Ulcerations	MERZOUGUI Besma, MIDOUN Sarah, GUENDOUZ Souhila	Algeria, Algeria, Algeria	Submission 1356
178	Implantable Catheter Chamber: Selection and Recommendations.	MERZOUGUI Besma, CHELGHOUM Mustapha	Algeria, Algeria	Submission 1357
179	Thermal and Mechanical Characterizations of Improved Polyimide Insulation for High voltage Applications	Abdur Rahman, Gul Rukh, Nafees Ahmed, Hamdullah Jan, Muhammad Ismail, Zeeshan Ahmad	Pakistan, Pakistan, Pakistan, Pakistan, Pakistan, Pakistan	Submission 1358
180	Perils of Presidentialism?	Özhan Demirkol	Turkey	Submission 1360
181	Advances in Molecular Genetics and Optimization of Antidiabetic Drugs: Towards More Effective Therapies	Hassina Fisli, Mohamed Lyamine Chelaghmia	Algeria, Algeria	Submission 1362
182	Coal Quality and Petrographic Features of Middle Miocene İlyaslı coalfield in the Uşak-Güre Basin (W. Türkiye)	Rıza Görkem Oskay, Ali İhsan Karayığit, Yakup Çelik	Turkey, Turkey, Turkey	Submission 1364
183	Investigation of various ropes in different water medium as forensic evidence	Hümeysra Durmuş, Soner Kızıl	Turkey, Turkey	Submission 1365
184	Effects of Rotational Speed/Traverse Speed Ratio on AA2024 Alloy Microstructure and Macrostructure in Friction Stir Processing	Aykut Batinli, Fatih Kahraman	Turkey, Turkey	Submission 1366
185	Çimento Hamurunun Priz Süresi ve Erken Yaş Performansına Plastik Tozunun Etkisi	Melek Akgül, Serkan Etli	Turkey, Turkey	Submission 1371
186	PMSM Design for Real-World Electric Vehicle Applications: Performance Suitability and Efficiency Assessment	Hani Terfa, Saâd Chouch, Younes Hamache, Sayah Merazi	Algeria, Algeria, Algeria, Algeria	Submission 1372
187	Composition analysis and influence of secondary	MENADI Widad, KERMADI	Algeria, Algeria,	Submission 1374

	phases on sprayed Cu ₂ ZnSnS ₄ thin film	Salim, ZOUGAR Lyes, SALI Samira	Algeria, Algeria	
188	Characterization of polypyrrole copper, electrocatalyst for ethanol degradation in alkaline medium	SEID Lamria, BELGHERBI Ouafia, AROUI Linda, CHOUDER Dalila	Algeria, Algeria, Algeria, Algeria	Submission 1378
189	Crimes omissions: A psycho-sociological perspective	Nino Kitoshvili, Beka Dadashkeliani	Georgia, Georgia	Submission 1380
190	Structural, optical and photoluminescence properties of Eu ³⁺ doped ZnO films	Tiour Faiza, Zougar Lyes, Sali Samira, Boulahdjel Sara, Toumi Yassin, Kermadi Salim, Ayachi Messaouda, Chaib Zoubir	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1383
191	Özel Eğitim Öğretmenlerinin Cinsel İçerikli Problem Davranışlarla Başa Çıkma Stratejilerinin ve Yeterliliklerinin Belirlenmesi	Mert Can KAYA, Bestami Buğra ÜLGER	Turkey, Turkey	Submission 1389
192	Make Science Visible through Numerical Methods in Computer Graphics. Water Wave Equation through Graphical Bezier Solution	Alma Sheko, Shkelqim Hajrulla, Robert Kosova, Vasil Lino, Leonard Bezati	Albania, Albania, Albania, Albania, Albania	Submission 1390
193	Kapsayıcı Eğitime İlişkin Öğretmen Görüşleri	İdris GÜLTEKİN, Emin Tamer YENEN	Turkey, Turkey	Submission 1391
194	Discrete fractional numerical analysis on the shallow water wave theory	Shkelqim Hajrulla, Alma Sheko, Robert Kosova, Loubna Ali, Ozen Ozer	Albania, Albania, Albania, Germany, Turkey	Submission 1392
195	Effective Degradation of Basic Yellow 28 Dye via a Novel Visible Light-Mediated Chlorine Photolysis Process	STAMBOULI Walid, Nouredine Nasrallah, Aymen Amin Assadi	Algeria, Algeria, Saudi Arabia	Submission 1393
196	Contribution of the acoustic emission technique to assess mechanical damage in the -case of eco-concretes-	Bouchenak Khelladi Hadjer, Marouf Hafida, Dahou Zohra	Algeria, Algeria, Algeria	Submission 1394
197	GRANULOMETRIC ANALYSIS OF SULPHIDE ZINC ORES FROM THE CHAABET EL-HAMRA MINE (SETIF, ALGERIA)	SI TAYEB Nor El Houda, CHAFI-SOUICI Zahia	Algeria, Algeria	Submission 1396
198	Structural, microstructural study of nanostructured Fe ₇₀ Si ₂₅ Cr ₅ developed by powder metallurgy	Ali Mameri, Ismail Daoud, Khalil benabderzak	Algeria, Algeria, Algeria	Submission 1397
199	Applications of Artificial Intelligence in Structural Engineering: A Review	Sardar Muhammad Abubakar, Muhammad Umer Karimi, Shiekh Junaid Mustafa, Burhan Ahmad	Pakistan, Pakistan, Pakistan, Pakistan	Submission 1400
200	KATILIM BANKALARININ SUKUK İHRACI UYUM DÜZEYİNİN ANALİZİ	Atiqullah Hakimi, Yavuz DEMİRDÖĞEN	Turkey, Turkey	Submission 1401
201	HUMAN SUPPORT AND NON-HUMAN SUPPORT IN ASSOCIATION WITH PSYCHOLOGICAL WELL-BEING OF UNIVERSITY STUDENTS	Aliza Zafar, Rabia Muzaffar	Pakistan, Pakistan	Submission 1406
202	Review of Intraocular Lens Utilization	MERZOUGUI Besma, CHELGHOUM Mustapha	Algeria, Algeria	Submission 1408
203	Microscopic Insights into Failure Mechanisms and Mechanical Properties of a PLA Biocomposite with Plant Fiber Reinforcement	Khalil Benabderazag, Zouheyr Belouadah, Moussa Guebailia	Algeria, Algeria, Algeria	Submission 1413
204	How to Establish MIT-Standard Institutions in Türkiye and Pakistan?	Syed Arif Kamal	Pakistan	Submission 1414
205	Mechanical Characterization of a Lygeum spartum fibers/PLA Biocomposite Using Flexural Testing and Impulse Excitation Technique	Khalil Benabderazag, Moussa Guebailia, Zouheyr Belouadah	Algeria, Algeria, Algeria	Submission 1416
206	Implementing rule-based reasoning for effective maintenance of radiology equipment	Mawloud Titah	Algeria	Submission 1417
207	DEVELOPMENT OF CHARACTERISTIC PROPERTIES OF TiO ₂ THIN FILMS FOR SOLAR CELL APPLICATIONS	Ertürk TÜRKER, Saadet YILDIRIMCAN, Selma ERAT, Samed ÇETİNKAYA	Turkey, Turkey, Turkey, Turkey	Submission 1418
208	Entrepreneurship and innovation in Algeria: an overview	Yasmine Hariti, Nacira Boukhezer-Hammiche	Algeria, Algeria	Submission 1419
209	Novel material designed as an additive to enhance cement manufacturing efficiency and performance	Boukhamla Yousra, Nettour Djamel, Chettibi Mohamed, Derrardja Nesrine, Aichouri Imene	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1420
210	Feedback Control over Response in the Cavity Quantum Electromagnetic Sensor	Sergey Borisenok	Turkey	Submission 1421
211	Enhancing Diabetic Retinopathy Detection Using a Hybrid Framework Integrating Machine Learning Classifiers and Advanced Feature Extraction Techniques	Tawfiq Beghriche, Mohamed Djerioui, Youcef Brik	Algeria, Algeria, Algeria	Submission 1422
212	DIGITAL PRACTICES IN SUSTAINABLE AGRICULTURE	Daniela PELIVANOSKA DAMESKA, Blagojche NAJDOVSKI	North Macedonia, North Macedonia	Submission 1424
213	Physical And Functional Characteristics of Ebony Fruits Flour Assorted Products	Leticia Touh Yamga, Anusha MB	Ghana, India	Submission 1427
214	Comparison of Multifocal ERG Responses between Retinitis Pigmentosa Patients and Healthy Individuals	Aykut Oruç, Kadriye Yağmur Oruç, Hakkı Oktay Seymen	Turkey, Turkey, Turkey	Submission 1428
215	Modelling of two well-known SPD methods (ECAP and MDF) and comparison with a numerical analysis	Seher KAPLAN, Mehmet ŞAHBAZ	Turkey, Turkey	Submission 1431

	method			
216	SIMULATING THE OPTIMAL IRRIGATION DATE AND AMOUNT OF ONION USING THE FAO CROPWAT MODEL IN ADANA	Yusuf Sadi Ibrahim, Burak Sen	Turkey, Turkey	Submission 1433
217	Bacillus mojavensis TH309 TİPİ L-ASPARAJİNAZ GENİNİN KLONLAMASI VE HETEROLOG İFADESİ	Raghad BAHAR, Ali Osman ADIGÜZEL	Turkey, Turkey	Submission 1434
218	GÖRÜNTÜ İŞLEME İLE KONVEYÖR ÜZERİNDEKİ KİRLİ YUMURTALARIN TESPİTİ	Zekeriya BALCI, Ahmet MERT, İsmail YABANOVA, Mehmet YUMURTACI	Turkey, Turkey, Turkey, Turkey	Submission 1436
219	Properties of polymer-based hydrogel films	LOUBNA OUMAMAR, EL KHAMSA SOLTANI, KHALIL KAOUANE, AYOUB BEKKA, KEMCHACHE HAMZA	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1445
220	Magnetic properties of a mixed-spin ferromagnetic Ising system with a random magnetic field	Tawfik MOUHRACH, Ahmed FATHI, Khalid SBIAAI, Mohammed SALAMA	Morocco, Morocco, Morocco, Morocco	Submission 1448
221	Theoretical Structure and Spectral Analysis of N-Phenyl-2-(phenylsulfanyl)acetamide	SMATI Sabrina, BOUKABCHA Nouredine, MENAD Karima, CHOUAIIH Abdelkader	Algeria, Algeria, Algeria, Algeria	Submission 1449
222	Lyotropik nematik kalamatik sıvı kristallerin yönelimlerinin nanoparçacıklar kullanılarak artırılması	Aykut Evren Yavuz	Turkey	Submission 1452
223	Importance of meat packing	Darko Veljanovski, Blagojce Najdovski	North Macedonia, North Macedonia	Submission 1456
224	Study of the wear behavior of the CoCrMo alloy in the presence of bio-lubricant	Hadda Rezzag ,Saida Bouyegh, Latifa Kahloul, Alima Mebrek, Afef Azzi, Amina Grairai	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1463
225	Effective Leak Detection in Water Distribution Networks using Pressure Transducers and Machine Learning	Chaima Chabira, Tawfiq Beghriche, Miloud BENTOUMI, Haddi BAKHTI, Sabir MEFTAH	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1466
226	FEMALE STEREOTYPES IN EGYPTIAN NETFLIX SERIES: A CASE STUDY OF FINDING OLA, VALENTINO, AND NEWTON'S CRADLE	Aesha ELSAADANI, Hülya ÖZTEKİN	Turkey, Turkey	Submission 1468
227	Prediction of Cardiovascular Disease Using Decision Trees Algorithm	Samira Tared	Algeria	Submission 1470
228	Evaluation and Parameterization of One-Dimensional Models in Vadose Zone Modelling	Mustafa Can Canoglu	Turkey	Submission 1474
229	Engineering Approaches and Spatial Analyses Applied in the Site Selection of Solid Waste Disposal Facilities	Mustafa Can Canoglu	Turkey	Submission 1475
230	An Overview and Evaluation of Management Processes Depending on Business Processes and Strategy Management	Ayşenur ERDİL	Turkey	Submission 1477
231	Optical and Electrical Properties of NiO Thin Films Deposited by DC Sputtering Technique	İlker Fatih GÜNGÖR, Abdullah ÜZÜM	Turkey, Turkey	Submission 1478
232	Protective Effect of Morus Fruit Extract (MFE) against lead (Pb) induced histopathological alterations in kidney of male mice model	Tahira Almas, Sajida Batool	Pakistan, Pakistan	Submission 1482
233	Optimizing Solar Power Integration: MATLAB Simulation of Two-Stage Power Conversion for Grid-Connected PV Systems	TRAIBIZ Omar, OULAD BEN ZAROUALA Rachad	Morocco, Morocco	Submission 1484
234	Wastewater treatment by bio-coagulation - advanced oxidation process: Optimization and modeling using the Box-Behnken Design	Amel Khediri, Kater enada Zerguine, Abderrezzaq Benalia, Nawal Ferroudj, Kerroum Derbal, Ouïem Baatache, Amel Khalfaoui	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1488
235	Economic repercussions of the Russo-Ukrainian Military Conflict on International Trade Dynamics	Brînză Alexandrina, Lăzărescu Ioana, Bălan Cosmin Aurelian	Romania, Romania, Romania	Submission 1489
236	Photovoltaic Solar System Optimization for a Water Treatment Plant in Remote Areas: Hippopotamus and Puma-Inspired Algorithms	Elmabrouk Khelifi, M.N. Brahmi, I.S. Bousmaha, F.Z. Boudjella, M. Brahmi, S. Bechekir, B. E. Oulad Naoui, M. Jbilou	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1490
237	Shunt Active Power Filter with Photovoltaic Systems Controlled by Sliding Mode Control: A Comprehensive Analysis	Ahmed ELOTTI, Lakhdar MAZOUZ, Abdellah KOUZOU, Nihel Bouthaina SALLAI, Imad Eddine MOHAMMEDI	Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1491
238	Optimizing Photovoltaic Solar Systems for Isolated Water Treatment plant: A Hybrid Approach Combining Response Surface Methodology and Metaheuristic Algorithms	Elmabrouk Khelifi, M.N. Brahmi, I.S. Bousmaha, F.Z. Boudjella, M. Brahmi, S. Bechekir, B. E. Oulad Naoui, M. Jbilou	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1492
239	Frekans Analizi Yöntemi ile Ses Sistemi ve Akort Sorununa Yenilikçi Bir Çözüm Önerisinin Türk Halk Müziği'ne Uyarlanması	Tunahan Ballı	Turkey	Submission 1494
240	Electrochemical studies of the quinoxaline derivative (DNQ) as a corrosion inhibitor for mild steel in 1M HCl	H. EL-IDRISSI, A. ELABBADI, Fatima Ez-zahra AABASSI, K. Benjelloun, H. Atlas, M. Sfaira, T. Saffaj	Morocco, Morocco, Morocco, Morocco, Morocco, Morocco, Morocco	Submission 1495

241	Enhancing Sunflower Productivity Through Foliar Application Of Thiourea	Esha Yaseen, Ghulam Qadir, Farid Asif Shaheen	Pakistan, Pakistan, Pakistan	Submission 1497
242	Chitosan-based membranes preparation and characterization	Ledia MERSEL, Lamia MOULAHCENE, Mathias ULBRICHT, Ounissa SENHADJI-KEBICHE	Algeria, Algeria, Germany, Algeria	Submission 1500
243	Doğadan İlham Alarak Yaratıcılığı Geliştirme: İç Mimarlık Stüdyo Dersi Deneyimi	Nurgül İnan, Tuğçe ÇELİK	Turkey, Turkey	Submission 1501
244	Antimicrobial Activity and Mechanism of Action of Green-Synthesized Copper Oxide Nanoparticles	Furkan Sahin	Turkey	Submission 1502
245	Non-invasive Methods for Diagnosing Jaundice in Newborns: A Review	Banan K. Abdulkader, Mazin H.Aziz	Iraq, Iraq	Submission 1510
246	Sınır Kent Şanlıurfa’da Suriyeli Göçün Sosyo-Mekansal Dönüşüme Etkisi; Eyyübiye Örneği	Neslihan KARACA POLAT,Zeynep Şirin Enlil	Turkey, Turkey	Submission 1526
247	Çok Fazlı Akış Analizi İçin Türbülans Modeli ve Analiz Parametreleri Seçimi	Özgür İMRE, Nureddin DİNLER	Turkey, Turkey	Submission 1530
248	Risk-Adjusted Performance of South African Active Investment Strategy of Liability-Driven Investor	Martin Kocúrek	Slovakia	Submission 1555
249	VALUATION OF ECO-DESIGN WITHIN THE PROFESSIONALIZATION OF STUDENTS-ARCHITECTS AND DESIGNERS	Angela MUNTEANU, Tatiana FILIPSKI	Moldova, Moldova	Submission 1561
250	Hidrazit Esaslı Maleik Asit Metal Komplekslerinin Kolorimetrik ve Spektrofotometrik Olarak İncelenmesi	Cumali Çelik	Turkey	Submission 1582
251	Türk Sanatı Motifleri ile Siyematik (Cymatics) Sistemde Oluşan Şekillerin Benzerlikleri	S. Bilge (Günceoğlu) Karaöz, Fatma Zehra Yağmur	Turkey, Turkey	Submission 1586
252	Düşük Magnezyumlu 5xxx Serisi Alaşımlarda Manganın Termomekanik Proseslere Ve Nihai Ürüne Etkisi	Mustafa Akçil, Eren Toraman	Turkey, Turkey	Mail Submission 7
253	Affirmative action perspective through the strategy of workplace to overcome systemic barriers	Gledia Hajrulla, Desantila Hajrulla, Taqo Stojani, Hajrulla Sh	Albania, Albania, Albania, Albania	Submission 1415
254	Mobilya Sektöründe İnovasyon ve Akıllı Mobilya	Mehmet ÇOLAK, Tahsin ÇETİN, İbrahim TEKİN	Turkey, Turkey, Turkey	Submission 1535
255	Alüminyum İlavesinin Çift Esaslı Roket Yakıtlarına Etkilerinin İncelenmesi	Mustafa AKÇİL	Turkey	Submission 1541
256	Enhancing Diabetes Diagnosis through the Investigation of Cost-Sensitive Learning with Ensemble Techniques	Yasmine Khedimi, Nadjette Dendani, Hana Khemisa	Algeria, Algeria, Algeria	Submission 1587
257	Implementing Standards for Student Assessment	Besa Dogani	North Macedonia	Submission 1588
258	Smart Decisions for "Smart Villages": Advancing Agricultural Innovation	Katerina Kareska	North Macedonia	Mail Submission 5
259	Enhancing Carbon Sink: Challenges in Urban Forestry of Major Cities in Tamil Nadu, India	A. Ramachandran, Divya Subash Kumar, Mathan Mathivanan, Ahamed Ibrahim S N, Kurian Joseph	India, India, India, India, India	Submission 1149
260	PSYCHOPHYSIOLOGICAL REACTIONS TO SOCIAL MEDIA STIMULI	Anna Yaroshevska, Milena Kuznetsova	Ukraine, Ukraine	Submission 1178
261	Transforming Healthcare with Artificial Intelligence in Pakistan	Madieha Akram	Turkey	Submission 1182
262	ATIK SUYLA ELEKTRİK ÜRETİMİ: MİKROBİYAL YAKIT HÜCRELERİYLE YENİLENEBİLİR ENERJİ	Serkan UZAN, Serdal DAMARSEÇKİN, Edip TAŞKESEN, Hakan DUMRUL, Hüseyin GÜRBÜZ	Turkey, Turkey, Turkey, Turkey, Turkey	Submission 1260
263-264	BASIC INTERNATIONAL DOCUMENTS ON CHILDREN'S RIGHTS REVIEW	Erol CEYLAN	Turkey	Submission 1271
265	Investigation of Microstructure and Wear Properties of Compact Graphite Cast Iron	Huseyin KAYA, Mustafa ACARER, Hayrettin DUZCUKOGLU, Bekir Guney, Bülent SIRIN	Turkey, Turkey, Turkey, Turkey, Turkey	Submission 1381
266	Talış dağı sistemlerinde (Azerbaycan) yaygın olan dağ-çayır bozkır toprakları	Sanubar Aslanova	Azerbaijan	Submission 1465
267	Talış'ın (Azerbaycan) dağlık bölgesinde bulunan dağ-orman kahverengi toprakları	Sanubar Aslanova	Azerbaijan	Submission 1467

Content of Full Papers

Page No	Title	Authors	Country	Submission ID
1-9	BCH Codes, Implementation of (15, 7)-BCH code	Tedis Ramaj, Daniela Bardhi	Albania, Albania	Mail Submission 3
10-22	Bir Eğitim Binasında Isıtma ve Soğutma Sistemlerinin Bakım, İşletme ve Maliyet Bakımından Enerji Performanslarının İncelenmesi	Eren GÜR, Halil ATALAY	Turkey, Turkey	Mail Submission 4
23-30	Obtaining Smarandache Curves of Mannheim Pair Curves in terms of the Frenet frame of Curve-Surface Pair of a Curve in Euclidean 3-Space	Filiz ERTEM KAYA, Süleyman ŞENYURT	Turkey, Turkey	Mail Submission 6
31-37	THE VILLAGE OF VITHKUQ, A BIZANTINE SETTLEMENT	Ernest Shtepani , Anna Yunitsyna, Minuel Çollaku	Albania, Albania, Albania	Submission 381
38-41	Soil Relationship of Some Macrophyte Communities	Ahmet Serteser	Turkey	Submission 799

	in Karakuyu reeds (Afyonkarahisar-Turkey)			
42-49	Effect of the integration of EVCS on the distribution network parameters in the presence of DGs	Kachaou Youcef, Bidi Menel, Ishak Aloui	Algeria, Algeria, Algeria	Submission 1003
50-58	Investigating The Impact of Soil-Structure Interaction on Raft Foundation Design	İlyas Özkan, Yavuz Yenginar, Ali Serdar Ecemiş	Turkey, Turkey, Turkey	Submission 1026
59-61	Numerical Calculation Second Virial Coefficient over HFDHE2 Potential	Elif Somuncu, Bahtiyar A. Mamedov	Turkey, Turkey	Submission 1027
62-65	Calculation of Using Third Virial Coefficient over Hard-Core-Lennard-Jones Potential	Elif Somuncu, Bahtiyar A. Mamedov	Turkey, Turkey	Submission 1028
66-73	On Some New m-Difference Double Sequence Spaces Defined by Orlicz Functions	Ayhan EŞİ	Turkey	Submission 1029
74-79	Sliding Mode Position Control Application for a DC Motor on Simulink External Mode with Raspberry Pi	Erdem Ilten	Turkey	Submission 1043
80-88	Light Gradient Boosting Machine (LGBM) for Daily Solar Radiation Prediction Using Claude3	Ijibadejo Oluwasegun William, Mubarak Altamimi	Benin Repubic, Yemen	Submission 1056
89-93	Prospective Middle School Mathematics Teachers' Experiences of Verbal Description for Students with Visual Impairments	Fatma Nur Aktaş	Turkey	Submission 1062
94-97	The Harmful Values Framing Mathematical Concept Definitions	Fatma Nur Aktaş	Turkey	Submission 1063
98-105	Logic-Based Approach for Modifying Mean Prompt Using Gemma-LLM	Ijibadejo Oluwasegun William, Mubarak Altamimi	Benin Repubic, Yemen	Submission 1077
106-108	Producing Hydrogen: Utilizing the Chlor-Alkali Method for ZnCl ₂ Salt Hydrogen Production	Serdal Damarseckin	Turkey	Submission 1082
109-117	Learning the Generative Design Tools for Architecture Projects: An Experience from a Student-Design Workshop	Ernest Shtepani, Anna Yunitsyna	Albania, Albania	Submission 1094
118-121	Successful Roadmaps for the Managerial Maze and Manager's Dilemmas	Serap KALFAOĞLU	Turkey	Submission 1096
122-126	The Changing Face of Business Administration with Industry 5.0 and Multidisciplinary Approaches	Serap KALFAOĞLU	Turkey	Submission 1097
127-131	Petrography of the Keban Overthrust Zone	Ayşe Akyürek, Ayşe Didem Kılıç	Turkey, Turkey	Submission 1103
132-145	Numerical Analysis of the Effects of Tube Diameter and Material Selection on Fluid Behavior at Different Flow Rates in Crossflow Heat Exchangers	Fuat TAN, Oğuzhan DEMİRKİRAN	Turkey, Turkey	Submission 1111
146-149	İdealist/Liberal Uluslararası İlişkiler Kuramı Bağlamında Türkiye'nin Filistin Sorununa Yaklaşımı	Yusuf Mehmet AKAY	Turkey	Submission 1113
150-156	ADÖLESAN FUTBOLCULARDA YALNIZLIĞIN ÖFKE ÜZERİNE ETKİSİ	Mine TAŞKIN, İbrahim Halil ŞAHİN, Süleyman TÜRK	Turkey, Turkey, Turkey	Submission 1120
157-170	On J-Statistical Convergence of sequences in Neutrosophic 2-Normed Spaces	İşıl Açık Demirci, Ömer Kişi, Mehmet Gürdal	Turkey, Turkey, Turkey	Submission 1125
171-177	Berezin Yarıçapı için Üst Sınırlar	Gamze Gül Erkan, Orçun Yücel, Mehmet Gürdal	Turkey, Turkey, Turkey	Submission 1128
178-185	Eğitimde Bulut Bilişim Teknolojisinin Değerlendirilmesi Üzerine Bir İçerik Analizi	Melike Yıldırım	Turkey	Submission 1131
186-193	Proposed Model for Improving Quality in the Hotel Industry in the Republic of North Macedonia	Elizabeta Mitreva, Dzevat Kicara	North Macedonia, North Macedonia	Submission 1137
194-201	Kolonların CFRP ile Güçlendirilmesinde Uygulama Detayları	Battal AYAZ, Özlem ÇALIŞKAN	Turkey, Turkey	Submission 1138
202-212	Finansal Teknolojilerin Gelişim Evreleri	Bahar Çetinoğlu TEPE, Ali KAHRAMANOĞLU	Turkey, Turkey	Submission 1139
213-216	Exploring Hydrogen Production Performance of Al ₂ Cl ₃ Salt via Chlor-Alkali Method: An Experimental Study	Serdal Damarseckin	Turkey	Submission 1141
217-225	Nimonic 50 Süperalaşımının Sürdürülebilir Koşullar Altında Frezelenmesinin Enerji Tüketimi Üzerine Etkileri	Ünal DEĞİRMENCİ, Serhat ŞAP, Üsame Ali USCA	Turkey, Turkey, Turkey	Submission 1150
226-232	Hidroklorik Asit Ortamında Bor Karbür Katkılı Epoksilerin Sıvı Emilim Davranışlarının Belirlenmesi	Emre Tıknaçoğlu, Kürşat Gültekin, Batuhan Özakin	Turkey, Turkey, Turkey	Submission 1159
233-240	Influence of Various FRP Reinforcement Types and Concrete Strength on Structural behavior of Flexural Members	Shahir Ahmad Safi, Raja Tufail Hussain Khan, Muhammad Abbas Ali, Ali Raza, Bilal Masood, Muhammad Arshad	Pakistan, Pakistan, Pakistan, Pakistan, Pakistan	Submission 1165
241-248	Impact of Concrete Strength and FRP Reinforcement Type on Fracture Toughness and Stiffness of Flexural Members	Ali Raza, Bilal Masood, Muhammad Arshad, Saleh Muhammad, Nihal Shafiq, Muhammad Azhar Nauman	Pakistan, Pakistan, Pakistan, Pakistan, Pakistan	Submission 1174
249-253	Do Economic Growth, Green Growth, and Net Migration Improve Environmental Quality in Countries with the Highest Net Migration?	Betül Altay Topcu, Sevgi Sezer	Turkey, Turkey	Submission 1185
254-257	Innovations and Frontiers in the Nixtamalization Process	Mustafa Şamil ARGUN	Turkey	Submission 1198
258-265	Chronological Age Estimation Using Multi-Task Convolutional Neural Networks with Facial Images and Weight Sharing	Gilbert George, Steve A. Adeshina, Jumare Muhammad	Nigeria, Nigeria, Nigeria	Submission 1201
266-274	Investigation of Charging Demand Times and Economic Parameters of Grid- Connected Distributed	Hacı Abdullah Demir, Orhun Celil Özen, Onur Akar	Turkey, Turkey, Turkey	Submission 1204

	Power System Integrated Electric Charging Stations			
275-281	A PET based and phthalimide-appended fluorescence probe for monitoring of nitric oxide: DFT study of response mechanism	Tahir Savran, Şükriye Nihan Karuk Elmas, İbrahim Yılmaz	Turkey, Turkey, Turkey	Submission 1213
282-288	Theoretical studies of a 1,8-naphthalimide-derived fluorescent sensor for recognition nitric oxide	Tahir Savran, Şükriye Nihan Karuk Elmas, İbrahim Yılmaz	Turkey, Turkey, Turkey	Submission 1214
289-294	Theoretical Analysis of nitric oxide sensing of a new designed coumarin-hemicyanine conjugate through 1,3,4-oxadiazole heterocycle formation by DFT method	Tahir Savran, Şükriye Nihan Karuk Elmas, İbrahim Yılmaz	Turkey, Turkey, Turkey	Submission 1215
295-300	Evaluation of theoretical calculation of a novel coumarin-indolinium-iodide based fluorescent probe for detection nitric oxide	Tahir Savran, Şükriye Nihan Karuk Elmas, İbrahim Yılmaz	Turkey, Turkey, Turkey	Submission 1216
301-305	Betanin'in Potansiyel Anti-inflamatuvar Özelliğinin Moleküler Kenetlenme ve Moleküler Dinamik Simülasyonla İncelenmesi	Bülent Dede	Turkey	Submission 1217
306-311	Yeni Bir Antineoplastik Ajan Olan Tovoraferib'in Bazı Kuantum Mekaniksel Hesaplamaları	Bülent Dede	Turkey	Submission 1218
312-315	REKABET HUKUKU VE HAKSIZ REKABET HUKUKU AÇISINDAN BLOKZİNCİR TEKNOLOJİSİ	Özge Nur KOYUNCU	Turkey	Submission 1219
316-321	Change of Root Biomass in Thinned Oriental Beech Stands and Adjacent Oak and Grassland	Emirhan ÇİÇEK, Ali Kemal ÖZBAYRAM	Turkey, Turkey	Submission 1235
322-329	Plazma Elektrolitik Oksidasyon (PEO) Yöntemi ile Al 7075 Alaşımı Yüzeyine Büyütülen Al ₂ O ₃ ve Al ₂ O ₃ :TiB ₂ Katkılı Oksit Kaplamaların Yapısal Özelliklerinin İncelenmesi	Süleyman ŞÜKÜROĞLU	Turkey	Submission 1237
330-336	Influence of Unbraced Slope Excavation in Cohesive Soils on Building Settlements: A Multiparametric Analysis	Dodigovic Filip, Ivandic Kreso	Croatia, Croatia	Submission 1243
337-365	International Law for Afghanistan	Maria Adli	Azerbaijan	Submission 1251
366-371	ZrO ₂ Takviyeli Alüminyum Matrisli Kompozitlerin Üretimi ve Özelliklerinin Araştırılması	Rana Şevval SOYDEMİRCİ, Mahmut Can ŞENEL	Turkey, Turkey	Submission 1252
372-381	Visualization of 3-dimensional Cubic B-spline Surface Approximation Model by using Interval Type-2 Neutrosophic Set Theory	Siti Nur Idara Rosli, Mohammad Izat Emir Zulkifly	Malaysia, Malaysia	Submission 1254
382-405	Impact of gender inequality on sustainable development of economies in CAC "Central Asia & Caucasus" region	Maria Adli	Azerbaijan	Submission 1255
406-415	Enhancing Oil Recovery: Evaluating the Effectiveness of Polymer Injection in the Patos-Marinza Oilfield Using ResInsight Simulations	Drilona Sauli, Evgeni Xhafaj, Esmeralda Zeqo, Neime Gjika	Albania, Albania, Albania, Albania	Submission 1256
416-421	ZERDAÇAL BOYAR MADDESİNİN KAĞIT BOYAMADA KULLANIMININ ARAŞTIRILMASI	Neslihan DUMAN KURMAY, Ahmet TUTUŞ	Turkey, Turkey	Submission 1259
422-425	Effect of Some Ecological Factors on Belowground Biomass in Oriental Spruce Stands	Ali Kemal ÖZBAYRAM	Turkey	Submission 1264
426-432	Sel Durumlarının Oyun Teorisi ile Modellenmesi	Medine Demir, Pınar Usta Evci, Sırma Zeynep Alparslan Gök	Turkey, Turkey, Turkey	Submission 1266
433-437	THE ROLE AND APPLICATIONS OF BIOINFORMATICS IN PERSONALIZED MEDICINE	Murat İSİYEL, Neslihan ÖZTÜRK, Hamid CEYLAN	Turkey, Turkey, Turkey	Submission 1267
438-448	1999 Marmara Depremi Sonrası Yalova Kent Merkezi Karayolu Ulaşımında Yaşanan Sıkıntıların Araştırılması	Muhammet Çelik	Turkey	Submission 1270
449-455	"Net Sıfır" Hedefinde Kömürün Değişen Rolü; Kömürlerin Nadir Toprak Element (NTE+Y) ve Sc İçerikleri, Türkiye'den örnekler	Nazan Yalçın Erik	Turkey	Submission 1280
456-462	"Net Sıfır" Hedefinde Kömürün Değişen Rolü; Kömürlerin Nadir Toprak Element (NTE+Y) ve Sc İçerikleri, Türkiye'den örnekler	Nazan Yalçın Erik	Turkey	Submission 1280
463-471	Geleneksel Olmayan Enerji Kaynağı Olarak Kömür; Kömür Kökenli Hidrokarbonlar	Nazan Yalçın Erik	Turkey	Submission 1281
472-478	1988-2024 Yılları Arasındaki "Kömür Kaynak Kaya" Konusunda Yapılan Çalışmaların Bibliyometrik Analizi	Faruk Ay, Nazan Yalçın Erik	Turkey, Turkey	Submission 1282
479-489	Transformation of State Sovereignty in the Globalization Process: New Security and Defense Policies	Elçin MÜRSELOĞLU	Turkey	Submission 1291
490-499	Globalization and National Identity: Cultural Conflict and Integration Küreselleşme ve Ulusal Kimlik: Kültürel Çatışma ve Bütünleşme	Elçin MÜRSELOĞLU	Turkey	Submission 1292
500-508	Examining Employees' Job Satisfaction and Life Satisfaction in the Context of the S-O-R Model	Zübeyir ÇELİK, Reha SAYDAN, Aykut KABAK	Turkey, Turkey, Turkey	Submission 1294
509-515	Arktik Alan ve Derin Sularda Petrol ve Gaz Aramacılığı ve Küresel İklim Değişikliği İlişkisi	Nazan Yalçın Erik	Turkey	Submission 1295
516-522	Meta-malzemelerle Yama Antenlerin Performanslarının Artırılması	Veysel SULAR, Mehmet YERLİKAYA	Turkey, Turkey	Submission 1308

523-531	A Comparison of SVM Kernel Functions for Android Malware Classification	Halit Çetiner	Turkey	Submission 1313
532-541	User Opinion on Factors Impacting Mobility of Multilane Highway	Abdul Wajid, Jamal Ahmed Khan, Muhammad Bilal Khurshid	Pakistan, Pakistan, Pakistan	Submission 1319
542-546	Therapia: A Turkish Depression Detector Using Language Models	Ceren Çağlayan, Elif Özyürek, Hakan Taşar, Bilgehan Ay, Emrah İnan	Turkey, Turkey, Turkey, Turkey, Turkey	Submission 1320
547-553	Sınıflardaki Karanlık Yüz: Yabancı Dil Öğretmen Adaylarının Unutamadığı Etik İhlaller	Ali Osman Öztürk, Ayşe Arslan Çavuşoğlu	Turkey, Turkey	Submission 1331
554-560	Anne Sütü İçerik Değerlendirmesi ve Alternatif Sütler	Meltem PEPE, Nejla CANBULAT ŞAHİNER	Turkey, Turkey	Submission 1339
561-569	Emzirme ve Kazanımları	Meltem PEPE, Nejla CANBULAT ŞAHİNER	Turkey, Turkey	Submission 1340
570-574	Otomotiv Yan Sanayinde Kalite Güvence: İstatistiksel Süreç Kontrolü ve Süreç Yeterlilik Analizinin Rolü	Selimhan Karaman, Erkan Sami Kokten	Turkey, Turkey	Submission 1343
575-581	Picture Fuzzy Bézier Curve Model by Using Interpolation Technique	Nur Azlida Ahmad, Mohammad Izat Emir Zulkifly	Malaysia, Malaysia	Submission 1361
582-589	Karıştırmalı Döküm Yöntemi ile Üretilen Al 7075/B4C Kompozitlerde B4C Oranı ve Boyutunun Abrasif Aşınmaya Etkisi	Muhammet Emin TECİMEN, Muharrem PUL, Hakan ARSLAN	Turkey, Turkey, Turkey	Submission 1363
590-596	Picture Fuzzy Quartic Bézier Curve Approximation Model and Its Properties	Nur Azlida Ahmad, Mohammad Izat Emir Zulkifly	Malaysia, Malaysia	Submission 1368
597-603	Çimento Hamurunun Priz Süresi ve Erken Yaş Performansına Plastik Tozunun Etkisi	Melek Akgül, Serkan Etli	Turkey, Turkey	Submission 1371
604-610	WC-9Co5Cr1Ni kompozit kaplamanın kaymalı aşınma karakteristiği	Ali AVCI	Turkey	Submission 1375
611-620	Some results on generalized nonexpansive mappings	İsa Yıldırım	Turkey	Submission 1376
621-629	Yeşil Altyapı ve Ekosistem Hizmetleri İlişkisinin Kent ve Peyzaj Mimarlığı Bağlamında Değerlendirilmesi	İlksen Çelikoğlu, E. Seda Arslan	Turkey, Turkey	Submission 1377
630-637	Classification of Potato Diseases Using Deep Convolutional Neural Networks	Ebubekir DOĞAN, Serhat KILIÇARSLAN	Turkey, Turkey	Submission 1379
638-647	Evaluation of Belen's Tourism Potential from the perspective of Local Authorities	Yeliz SEVİM, Nihat DEMİRTAŞ	Turkey, Turkey	Submission 1384
648-657	Proposal and Evaluation of Biogas-Fired Power Plant Integrated with Helium Gas Cycle and Power-Ejector Refrigeration Cycle	Gamze Soyuturk, Onder Kizilkan	Turkey, Turkey	Submission 1385
658-666	Thermodynamic Assessments of a Novel Hybrid System based on a Solid Oxide Fuel Cell	Gamze Soyuturk, Onder Kizilkan	Turkey, Turkey	Submission 1386
667-674	Fuzzification of Hesitant Fuzzy Bézier Surface Approximation Model in Visualizing Uncertain Data by Hesitancy	Wei Jin Pa, Mohammad Izat Emir Bin Zulkifly	Malaysia, Malaysia	Submission 1388
675-681	B2 Yapılı BaCd İntermetalik Bileşiğinin Yapısal, Elastik, Elektronik, Titreşimsel ve Optiksel Özellikleri	Yasemin Oztekin Ciftci, İlkur Kars Durukan	Turkey, Turkey	Submission 1402
682-686	BaHg İntermetalik Bileşiğinin Yapısal, Elektronik ve Titreşim Özelliklerinin Teorik Analizi	İlknur Kars Durukan, Yasemin Çiftçi	Turkey, Turkey	Submission 1403
687-692	BaHg İntermetalik Bileşiğinin Mekanik ve Termodinamik Özelliklerinin Teorik Analizi	İlknur Kars Durukan, Yasemin Çiftçi	Turkey, Turkey	Submission 1404
693-700	Investigation of Temperature and Inlet Relative Humidity Effects on the Performance of a Three-Cell PEM Fuel Cell Stack	Berre KUMUK	Turkey	Submission 1411
701-708	The Line of Yoghurt Production of Türkiye: Forecasting with Box-Jenkins Model	Adile Tatlıyer Tunaz	Turkey	Submission 1425
709-714	Contribution of Machine Learning Technologies to Genomic Prediction in Animal Breeding	Adile Tatlıyer Tunaz	Turkey	Submission 1426
715-719	Equivalent circuit model analysis of symmetrical rGO/MnO2 nanocomposite electrodes for supercapacitors	Murat Ates	Turkey	Submission 1432
720-732	USING CROPWAT MODEL FOR ESTIMATING THE OPTIMAL CROP WATER NEEDS IN GRAPE CULTIVATION IN ADANA PROVINCE	Zoumana Ballo, Mustafa Avci, Burak Sen	Turkey, Turkey, Turkey	Submission 1435
733-744	Tekstil Atıkları Depolarının Konumlandırılması Problemleri için Çok Kriterli Karar Verme (ÇKKV) Uygulamalarının Nicel Analizi	Ertuğrul Ayyıldız, Betül Kara	Turkey, Turkey	Submission 1437
745-751	Örnek Bir İnşaat Projesinde Karşılaşılan Sorunların Kök Neden Analizi Yöntemi ile İncelenmesi	Güney Eskigölek, Reyhan Kaya, Semih Çağlayan	Turkey, Turkey, Turkey	Submission 1438
752-758	RTV 2 Kalıp Silikonu ile Poliüretan Malzemenin Dekoratif Ürünlerde Kullanımı	Seda Dilay	Turkey	Submission 1440
759-765	THE ROLE OF EPIGENETIC MODIFICATIONS ON CARDIOVASCULAR DISEASE	Esra Nur Yeşilkent, Habibe Karadaş, Hamid Ceylan	Turkey, Turkey, Turkey	Submission 1441
766-772	ALZHEIMER'S DISEASE AND NEUROTOXIC EFFECTS OF CHEMOTHERAPY	Medine Sibel KARAĞAÇ, Hilal TOSUN, Hamid CEYLAN	Turkey, Turkey, Turkey	Submission 1442
773-780	Wood Composites for Furniture Industry in term of Ergonomics, Design, and Durability	Mahmut Ozaydin, Deniz Aydemir, Suheyla Esin Koksall, Orhan Kelleci	Turkey, Turkey, Turkey, Turkey	Submission 1444

781-786	BLOW UP AT FINITE TIME FOR SIXTH-ORDER EVOLUTION EQUATIONS WITH POSITIVE INITIAL ENERGY	Ayşe Fidan, Erhan Pişkin	Turkey, Turkey	Submission 1446
787-791	Nonexistence of global solutions for variable coefficients wave equation with negative initial energy	Ayşe Fidan, Erhan Pişkin	Turkey, Turkey	Submission 1447
792-800	Stability and convergence analysis of a new algorithm for contraction mappings	İsa Yıldırım	Turkey	Submission 1451
801-810	Hokey A Milli Takım Kadın Sporcularında Müziğin Etkisi	Hüsniye ÇELİK, Osman GIDİK	Turkey, Turkey	Submission 1453
811-817	The role of age and gender as moderators of customer loyalty programs in Albanian telecommunication sector	Elton Noti, Eduina Maksuti	Albania, Albania	Submission 1455
818-824	BALANCING URBAN GROWTH AND CULTURAL HERITAGE: PRESERVING RAMALLAH'S HISTORIC CENTER AMIDST DEVELOPMENT	Yasmeen Salem, Zeynep Şirin Enlil	Turkey, Turkey	Submission 1458
825-831	İçten Yanmalı Dizel Motorlarda Hidrojen Yanmasının İncelenmesi	Şükrü ŞAHİN, Hüseyin GÜRBÜZ	Turkey, Turkey	Submission 1459
832-835	Akıllı Kaynak Sistemlerine Yönelik Araştırma	Kerem Ayyıldız, Mehmet Alper Sofuoğlu	Turkey, Turkey	Submission 1460
836-839	Investigation of late-Miocene Unit Distributions in the Inner Cilicia Basin	Canan Çiftçi	Turkey	Submission 1461
840-851	Kriket Gençler Türkiye Birinciliğine Katılan Sporcularda Müziğin Etkisi	Hüsniye ÇELİK, Osman GIDİK	Turkey, Turkey	Submission 1462
852-860	Importance of Information and Network Security: Evaluation within the Scope of Business	Ayşenur ERDİL	Turkey	Submission 1479
861-867	Random vs. SMOTE Oversampling: Which Enhances Bankruptcy Prediction More?	Mária Vojtasová	Slovakia	Submission 1483
868-874	Deep Learning Approach Towards Satellite Image Classification	Musa BALCI, Mustafa CEYLAN, Hüseyin AYDİLEK, Mustafa Yasin ERTEN	Turkey, Turkey, Turkey, Turkey	Submission 1486
875-879	ALTERNATİF BESİN KAYNAĞI: YENİLEBİLİR BÖCEKLER	Gözde ALKAN, Seydi YIKMIŞ	Turkey, Turkey	Submission 1498
880-883	Mating behavior and a new host of <i>Rhinusa tenuirostris</i> (Stierlin, 1888) (Coleoptera, Curculionidae) from field observations	Serdar Bilginturan	Turkey	Submission 1499
884-892	İstatistiksel Proses Kontrolünde U Kontrol Grafiğinin Kullanımı ve Savunma Sanayiinde Bir Uygulama	Berna SIRTILI, Ertuğrul AYYILDIZ	Turkey, Turkey	Submission 1504
893-903	Akciğer Kanseri Türlerini Otomatik Sınıflandırmak için BT Taraması Görüntülerini Kullanan MobileNet ve DenseNet201 Tabanlı Derin Öğrenme Modeli	Hüseyin FIRAT, Hüseyin ÜZEN	Turkey, Turkey	Submission 1505
904-913	Ankara ve Eskişehir İllerinin SPEI ve SPI İndisleri ile Kuraklık Değerlendirmesi	Büşra AÇIKGÖZ MUCUK, Ahmet İyad CEYHUNLU, Gökmen ÇERİBAŞ	Turkey, Turkey, Turkey	Submission 1506
914-920	LiCuS'in Yapısal, Mekanik ve Elektronik Özellikleri Üzerindeki Basınç Etkileri: İlk İlkeler Çalışması	Göktaş Eftekin, İrem Almina Gemici, Yasemin Öztekin Ciftci	Turkey, Turkey, Turkey	Submission 1508
921-927	Türkiye'de Döviz Kuru Hareketlerinin Uluslararası Hizmet Ticaretine Etkisi: ARDL Modelinden Bulgular	Kadir Karagöz	Turkey	Submission 1511
928-932	Efficiency Measurements with Data Envelopment Analysis in Marketing	Ali Tehci, Yusuf Ersoy, Fuad Selamzade	Turkey, Turkey, Turkey	Submission 1514
933-941	Equivalent circuit model analysis of rGO/MnO ₂ /PTTh nanocomposites	Murat Ates	Turkey	Submission 1517
942-948	Investigation of Hyperparameter Tuning Performance on Different Deep Learning Models with Meta Heuristic Algorithms	Süleyman Çetiner, Osman Altay	Turkey, Turkey	Submission 1519
949-956	DEEPAKE DETECTION WITH A TRADITIONAL HYBRID METHOD (LBP + HOG)	Nida CANPOLAT, Burhan ERGEN, Şengül DOĞAN, Türker TUNCER	Turkey, Turkey, Turkey, Turkey	Submission 1521
957-962	Pazarlama Profesörlerinin Yüksek Öğretim Bilgi Sisteminde (YÖKSİS) Yer Alan Anahtar Kelimelerinin Sistematik Bir İncelemesi	Zübeyir ÇELİK, Reha SAYDAN	Turkey, Turkey	Submission 1523
963-965	Production of Few-Layer Boron Sheets by Sonication-Assisted Liquid-Phase Exfoliation	SümeYYe ÇINAR, Neşe KEKLİKÇİOĞLU ÇAKMAK	Turkey, Turkey	Submission 1527
966-977	Photovoltaic Energy Production Forecasting with Machine Learning	Nur Yaren Uçacelik, Akin İlhan	Turkey, Turkey	Submission 1528
978-986	Vibration Analysis of a Real-Time Bullet Casing Inspection System	Alican YAKIN, Tuncay ŞİMŞEK, Adnan AKKURT, Serkan YETER	Turkey, Turkey, Turkey, Turkey	Submission 1529
987-989	Investigation of the Effect of Surfactants on Crude Oil Rheology	İbrahim Mohammad Sattar Albayati, Neşe KEKLİKÇİOĞLU ÇAKMAK	Turkey, Turkey	Submission 1532
990-993	Micromixing of two liquids using a micromixer with inclined baffles	Haneen Ahmed Sahib Al-Hachami, Hasan Falah Abdulhasan, Morteza Bayareh	Iran, Iran, Iran	Submission 1533
994-997	Effect of inlet velocity on the mixing of liquids in a passive micromixer with baffles	Haneen Ahmed Sahib Al-Hachami, Hasan Falah Abdulhasan, Morteza	Iran, Iran, Iran	Submission 1534

		Bayareh		
998-1004	Designing Titanium Surgical Clips with a Biomimetic Approach	Sude YÜKSEL, Ayhan ÇELİK	Turkey, Turkey	Submission 1537
1005-1013	Gaz Türbin Kanatçığında One-Way FSI ile Ömür Tayini	Furkan Birişik, İdris Cesur	Turkey, Turkey	Submission 1538
1014-1022	TBDY 2018'e Göre Modellenen Bir Betonarme Yapının DD-1 ve DD-2'ye Göre Tasarlanması Durumuna ait Maliyet Karşılaştırması	Hekmat Ala Shahr, Ahmet Hamdi Serdar	Turkey, Turkey	Submission 1539
1023-1027	A review of the mixing of oil and ethanol to produce biodiesel	Fouad Jumaah Luaibi Al-saedi, Morteza Bayareh	Iran, Iran	Submission 1546
1028-1033	The impact of fixed capital, trade openness and renewable energy on environmental degradation in G7 countries	Murat ÇETİN, Sevgi SÜMERLİ SARIGÜL	Turkey, Turkey	Submission 1547
1034-1038	Incorporating Plastic Aggregates in Concrete: Effects on Workability, Strength, and Durability Properties	Rachid Rabehi, Said Zaouai, Naas Allout, Mohamed Rabehi, Mohammed Omrane, Ouassila Bahloul, Mohamed Amieur	Algeria, Algeria, Algeria, Algeria, Algeria, Algeria	Submission 1550
1039-1055	ADIMPARA UYGULAMA VE APK ANALİZİ	Elifnur İPEK ŞÜKÜR, Erhan AKBAL	Turkey, Turkey	Submission 1551
1056-1063	Bilgisayarlı Görme Uygulaması için Yeni Bir Evrişimsel Sinir Ağı Modeli: Trafik İşareti Tanıma	İbrahim Çetiner, Ahmet Böbrek	Turkey, Turkey	Submission 1560
1064-1070	Stress-Strain behavior of Various Shaped FRP-Confined Electronic Waste Aggregates Concrete Cylinders	Zohaib Riaz, Ali Raza, Zeeshan Ahmad, Muhammad Hassan, Bilal Nisar, Jawad Ahmed, Umer Farooq	Pakistan, Pakistan, Pakistan, Pakistan, Pakistan, Pakistan	Submission 1564
1071-1075	Dijital Toplum ve Dijital Yeteneklerin Gelişimi Üzerine Sistematiik Literatür Analizi	Ecem Buse Sevinç Çubuk	Turkey	Submission 1566
1076-1096	Evaluating Push-and-Pull Factors of Migration from West African Communities to Turkey through Labour Market Related SDG Indicators	Mamadu Aliu SO, Esin KILIÇ	Turkey, Turkey	Submission 1569
1097-1106	Nesne Sınıflandırmasına Yönelik YOLOv5 ve YOLOv6 Model Performansının Karşılaştırmalı Analizi	Hakan Yüksel	Turkey	Submission 1571
1107-1109	Düve Buzağlarında İshale Bağlı Ölüm ve Sebepleri	Berkay OLGÜNER, Ramazan YILDIZ	Turkey, Turkey	Submission 1572
1110-1112	Bazı Ülkelerde ve Türkiye'de Köpeklerde Obezite Yaygınlığı	Berkay OLGÜNER, Ramazan YILDIZ	Turkey, Turkey	Submission 1573
1113-1121	Artificial Neural Network Approach for Acceleration Analysis of the Inverted Slider-Crank Mechanism	Onur Denizhan	Turkey	Submission 1581
1122-1134	An Ensemble Approach Using Optimized Machine Learning Algorithms for Predicting Video Game Sales Prediction	Taha BERBEROĞLU, Mustafa Yasin ERTEN, Hüseyin AYDİLEK	Turkey, Turkey, Turkey	Submission 1584
1135-1141	Development of a Wireless Firefighting Robot with Obstacle Avoidance and Fire Extinguishing Modes	Serhat Küçükdermenci	Turkey	Submission 1591
1142-1149	Multifunctional Smart Glove: An Innovative Solution for Sign Language Interpretation and Wireless Wheelchair Control	Serhat Küçükdermenci	Turkey	Submission 1592
1150-1156	Interval-Valued Fuzzy Bézier Curve Approximation and its Numerical Example	Nor Ashikin Sahrom, Mohammad Izat Emir Zulkifly	Malaysia, Malaysia	Mail Submission 8
1157-1163	Modeling of Interval-Valued Fuzzy Cubic Bézier Curve Approximation Method for Uncertainty Data	Nor Ashikin Sahrom, Mohammad Izat Emir Zulkifly, Siti Nur Idara Rosli	Malaysia, Malaysia, Malaysia	Mail Submission 9
1164-1170	The Model Predictive Control for grid Connected to Wind Turbine System	Yousra Izgheche, Tahar Bahi	Algeria, Algeria	Submission 1522
1171-1182	Optimization of network reconfiguration by Using League Championship Algorithm (LCA)	DJEMOUI BENKHETTA, ABDELHAFID ROUINA, ABDELOUAHAB NECIRA	Algeria, Algeria, Algeria	Mail Submission 2
1183-1200	Shifting Shadows of Heroism: The Evolution of American War Film Portrayals in The Context of the Iraq War	Abdelkrim Dekhakhena	Algeria	Submission 1068
1201-1207	MATTERS OF MORPHOLOGICAL HOMONYMY IN THE ALBANIAN LANGUAGE	Gilberta Hadaj, Albana Tahiri	Albania, Albania	Submission 1124
1208-1214	Glukokortikoid ile oluşturulan insülin direncinde serum vitamin A ve E düzeyleri üzerine timokinonun etkisi	Semiha DEDE, İbrahim Hakkı YÖRÜK, Veysel YÜKSEK, Ayşe USTA	Turkey, Turkey, Turkey	Submission 1200
1215-1232	SANAL KİMLİKLER ve INSTAGRAM	Fatma Topçu, Fatih Arslan	Turkey, Turkey	Submission 1230
1233-1241	REFORMS IN TYPHLOPEDAGOGIC TEACHING	Hajri Mandri, Gilberta Hadaj	Albania, Albania	Submission 1269
1242-1251	BİR YERALTI ALTIN MADENİNDE ÜRETİM SÜRECİNDE KARŞILAŞILABİLECEK İSG PROBLEMLERİ VE ÖRNEK KAZALAR	Gökhan KÜLEKÇİ, Ramazan ŞAHİN	Turkey, Turkey	Submission 1307
1252-1258	Re Dopant Seviyesinin BaZrO3 Perovskitlerinin Mekanik, Elektronik ve Termodinamik Özellikleri Üzerine Etkisi: VASP Kullanılarak Bir DFT Çalışması	Gülçin ÇORBACI, Yasemin Öztekin CİFTCI	Turkey, Turkey	Submission 1373
129-1279	Multilingualism is beneficial for business. Results of a linguistic landscape research in the Eastern Slovakian-Hungarian border region.	Kornélia Hires-László, Gergely Horzsa, László Letenyei	Hungary, Hungary, Hungary	Submission 1496
1280-1299	ELEKTİRİKLİ ARAÇLARIN AKTARMA	Hüseyin Yetik, Halil Atalay	Turkey, Turkey	Submission 1512

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1314-1321	CuBZr Bileşiğinin Fiziksel Özelliklerine Dair İlk İlkeler Çalışması	İrem Almina Gemici, Yasemin Öztekin Ciftci	Turkey, Turkey	Submission 1382
1322-1336	Endüstri 4.0 ile Tarımsal Sulama Yönetiminde Dijital Dönüşüm ve Yazılım Çözümleri	Betül DEMİR, Yeşim DOKUZ, Burak ŞEN	Turkey, Turkey, Turkey	Submission 1430

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Combining CNN with hand-crafted features for Diabetic retinopathy classification

Abderaouf Moustari^{1*}, Youcef Brik¹ and Bilal Attallah¹

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Abstract – Diabetes or diabetes mellitus (DM) is a worldwide issue of pandemic scale. The effect or illness of this disease on the human eye is called diabetic retinopathy (DR) which can be diagnosed from the images of the eye fundus. The fundus images of patients with Diabetic Retinopathy (DR) often display numerous lesions scattered across the retina. This study investigates the task of classifying the presence of diabetic retinopathy in eye fundus images by first, employing appropriate preprocessing techniques to enhance image quality such as CLAHE and LoG techniques. Then, we propose a novel fusion system that uses both: features extracted using Convolutional neural networks (densenet-121), and hand-crafted texture features (such as LBP, LPQ and BSIF). These two types of features are then used as the input of a machine learning system (using SVM, KNN, MLP) that has the task of classifying the presence of DR in the fundus images (Binary classification).

After much extensive tests, we found that our system has great performance both in calculation time and accuracy, the best accuracy results was found using SVM as the ML technique (using Poly kernel and the parameters C=100) and LBP as the hand-crafted feature extracted with the accuracy of 94.32%, representing a significant advancement in state-of-the-art performance within the field.

Keywords – Diabetic retinopathy, Convolutional neural networks, DenseNet, SVM, Hand-crafted features
