

CERTIFICATE



PARTICIPATION

Youcef Brik

has participated in 3rd International Conference on Frontiers in Academic Research on 15-16 June in 2024 at
Konya/Turkey.

PAPER TITLE

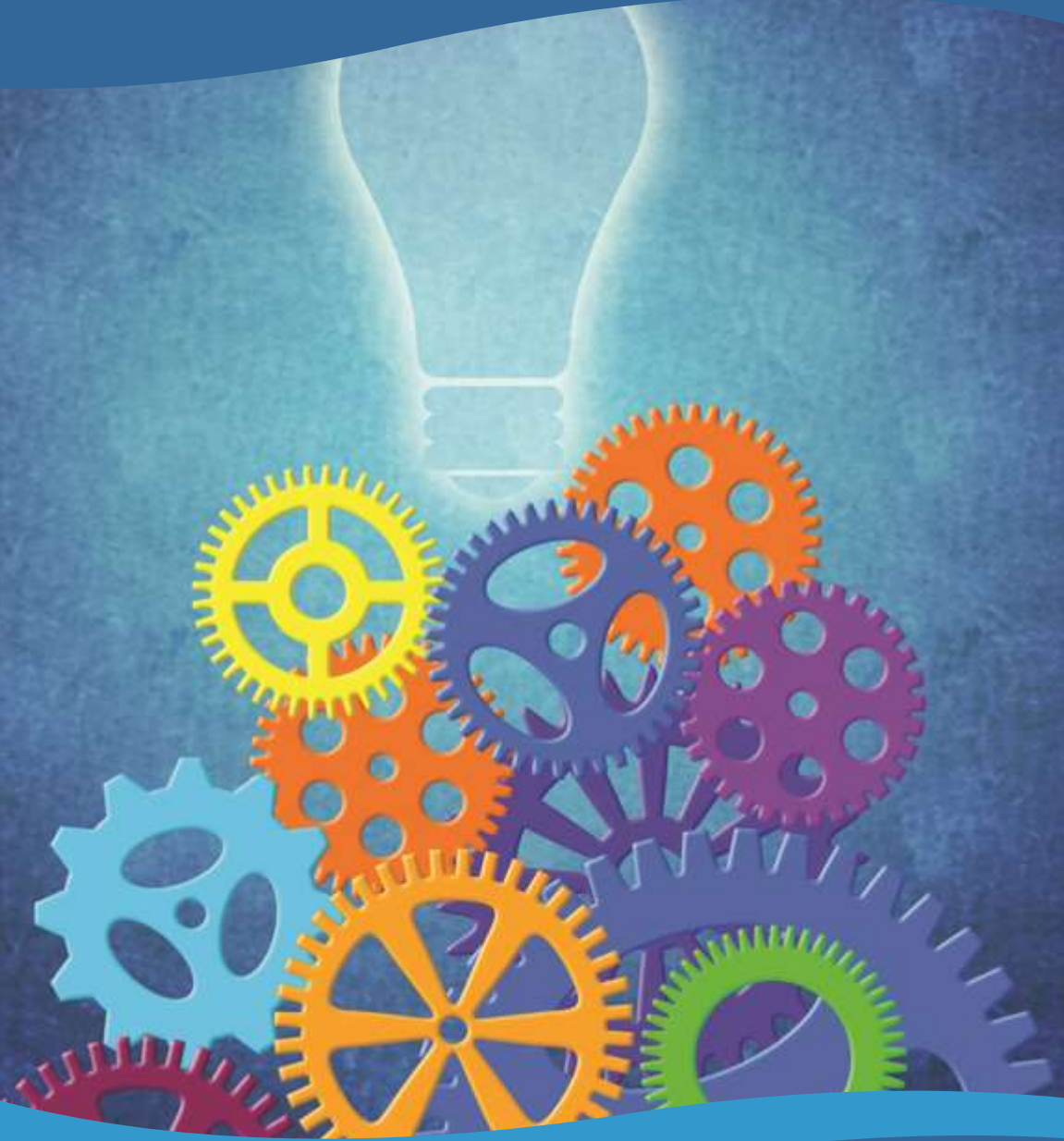
*Enhancing Diabetic Retinopathy Detection Using a Hybrid
Framework Integrating Machine Learning Classifiers and Advanced
Feature Extraction Techniques*

PRESENTATION TYPE

Oral



ICFAR 2024



**3rd International Conference on Frontiers in Academic Research
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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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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

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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	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, Saâd 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

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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 Karayigit, 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 Junaïd 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

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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 Grairiai	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, 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
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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	DEEFAKE 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 Ucacelik, Akin Ilhan	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

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998-1004	Designing Titanium Surgical Clips with a Biomimetic Approach	Sude YÜKSEL, Ayhan ÇELİK	Turkey, Turkey	Submission 1537
10051013	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
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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
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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
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1201-1207	MATTERS OF MORPHOLOGICAL HOMONYMY IN THE ALBANIAN LANGUAGE	Gilberta Hadaj, Albana Tahiri	Albania, Albania	Submission 1124
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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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Enhancing Diabetic Retinopathy Detection Using a Hybrid Framework Integrating Machine Learning Classifiers and Advanced Feature Extraction Techniques

Tawfiq Beghriche*, Mohamed Djeriouei and Youcef Brik

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Abstract –Diabetic retinopathy (DR) is recognized as a significant threat to global visual health among diabetes patients worldwide, necessitating an urgent need for efficient detection methods. Manual methods of diagnosis have limitations, resulting in delayed diagnosis, especially in areas with limited access to healthcare services. Deep learning techniques such as convolutional neural networks (CNNs), provide promising performance in various medical applications. This study proposes an innovative framework that leverages deep learning and machine learning techniques to enhance the diagnostic accuracy and detection efficiency of DR. The framework combines pre-trained CNNs with robust machine learning classifiers to enhance prediction capabilities, incorporating Support Vector Machines (SVMs) and K-Nearest Neighbor (KNN), stacking their predictions for improved performance. Additionally, three CNN models—MobileNetV2, ResNet50, and Xception—are employed to extract pertinent features from retinal images within the DR 224x224 Gaussian Filtered dataset. The combination of ResNet50 and SVM achieved the highest accuracy rate of 95.22% in detecting retinal abnormalities within DR images. Comprehensive validation of our framework highlights its superiority over current diagnostic techniques. By Integrating advanced deep learning architectures with machine learning classifiers, this study marks a significant advancement in the automated detection of Diabetic Retinopathy, potentially enhancing healthcare outcomes for diabetic patients globally.

Keywords –Diabetic retinopathy, Convolutional neural networks (CNNs), Machine learning algorithms, Classification, DR 224x224 Gaussian Filtered
