

2024 International Conference on Science, Engineering and Business for Driving Sustainable Development Goals (SEB4SDG 2024)

**Omu-Aran, Nigeria
2-4 April 2024**

Pages 1-668



**IEEE Catalog Number: CFP24DL2-POD
ISBN: 979-8-3503-5816-2**

**Copyright © 2024 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP24DL2-POD
ISBN (Print-On-Demand):	979-8-3503-5816-2
ISBN (Online):	979-8-3503-5815-5

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

<p>A Mobile-Based Fuzzy Expert System for Diagnosing COVID-19 1</p> <p style="padding-left: 20px;"><i>Abiodun Muyideen Mustapha, Temitope Elizabeth Ogunbiyi, Deborah Dorcas Aleburu, Christianah Yetunde Alonge</i></p> <p>A Knowledge-Based Architecture for Managing Research Documents in Higher Institutions 7</p> <p style="padding-left: 20px;"><i>Abiodun Muyideen Mustapha, Temitope Elizabeth Ogunbiyi, Folasade Mercy Okikiola, Ohusanya Oyedele, Joachim Ayodeji Braimah</i></p> <p>Classification of Parkinson’s Disease Using MRMR and ICA Prediction Models - A Comparative Study 13</p> <p style="padding-left: 20px;"><i>Prisca O. Olawoye, Marion O. Adebisi, Sotonye Vydah Harry, Micheal O. Arowolo</i></p> <p>Recent Advancements in Pest-Repellent Monitoring Technologies in Precision Agriculture: A Comprehensive Review 24</p> <p style="padding-left: 20px;"><i>Emaediong Sylvanus Udofa, Mohamed Sultan Mohamed Ali, Kufre Esenowo Jack, Chika Innocent, Abdulkadir Olayinka Abdulkabi, Udeme Ekanem Ekanem</i></p> <p>Design and Construction of Smart Gas Leakage Detector with Audio-Visual Alert and Automatic Shut off Control 31</p> <p style="padding-left: 20px;"><i>Sotonye Vydah Harry, Marion Adebisi, Emmanuel Oluwatobi Asani, Kazeem Michael Olagunju, Prisca Olawoye, Delwende Joel Ouedraogo</i></p> <p>Flood Losses Estimation, Mitigation and Coping Strategies Among Rice Farmers in Benue State, Nigeria 38</p> <p style="padding-left: 20px;"><i>Y. E. Ajibade, J. A. Folayan, M. Akinyemi, A. O. Gbadamosi, G. O. Salifu</i></p> <p>Generalized Quantum Computing K-Fibonacci Sequence 45</p> <p style="padding-left: 20px;"><i>Rajiniganth P, Suresh K, Aparna T, Oyetepo T, Oluwayemi M. O</i></p> <p>Generalized Tribonacci Sequence and Its Sum Through Third Order Difference Operator 50</p> <p style="padding-left: 20px;"><i>Rajiniganth P, Aparna T, Oluwayemi M. O, Oyetepo T, Suresh K</i></p> <p>A Comparative Study of Two Computational Techniques for Volterra-Fredholm Integro-Differential Equations 56</p> <p style="padding-left: 20px;"><i>Taiye Oyedepo, Matthew O. Oluwayemi, Sunday Emmanuel Fadugba, Rajiniganth Pandurangan</i></p> <p>First Order Initial Value Problems: An Explicit One-Step Method Combining Three Interpolants 62</p> <p style="padding-left: 20px;"><i>Sunday Emmanuel Fadugba, Daniel Kwame Okyere</i></p> <p>A Mobile Adaptive Elliptic Curve Cryptography Technique for Internet of Things Device 69</p> <p style="padding-left: 20px;"><i>Abidemi Emmanuel Adeniyi, Rasheed Gbenga Jimoh</i></p> <p>Improved SINR m-Coverage Probability in 6G Networks: Unveiling the Sample Point Saturation Phenomenon in Urban and Suburban Environments 76</p> <p style="padding-left: 20px;"><i>Chigozirim Ajaegbu, Abayomi A. Adebisi, R. U Kanu</i></p> <p>Development of Machine Learning Based Diabetes Mellitus Survival Prognostic Model 83</p> <p style="padding-left: 20px;"><i>Samuel Gbenga Faluyi, Temitayo Balogun, Matthew Adebayo Ogunsan, Ebenezer Akinyemi Ajayi, Victor Oluwaseun Aiyewumi, Akinwale Trust Adewale</i></p>	<p>1</p> <p>7</p> <p>13</p> <p>24</p> <p>31</p> <p>38</p> <p>45</p> <p>50</p> <p>56</p> <p>62</p> <p>69</p> <p>76</p> <p>83</p>
--	---

Prediction of Urinary Tract Infection Using Machine Learning Algorithms.....	89
<i>Marion O. Adebisi, Oladayo G. Atanda, Praise Blessing, Ayodele A. Adebisi, Kayode Akindeji, Francis B. Osang</i>	
Impact of Climate Change and the Mitigation Strategies in South Africa: A Survey of Literature.....	95
<i>Odirile Sefolo, Ilesanmi Daniyan, Kemlall Ramdass, Oluwatoyin Esther Akinbowale, Mulatu Fekadu Zerihun, Polly Mashigo</i>	
Towards Addressing Energy Crisis in South Africa: A Systematics Literature Review	109
<i>Thembeke Behrens, Ilesanmi Daniyan, Kazeem Bello, Adeolu A. Adediran</i>	
Towards Adopting Intelligent Livestock Tracking System: An Exploratory Study.....	117
<i>O. T. Arogundade, C. Yinka-Banjo, S. Oluwatope, O. Longe, O. A. Isah, M. Adeyemi, A. Abayomi-Alli, S. Okoro, T. E. Ogunbiyi</i>	
The Applications of Federated Learning Algorithm in the Federated Cloud Environment: A Systematic Review	127
<i>Ademolu Ajao, Oluranti Jonathan, Emmanuel Adetiba</i>	
Machine Learning Approaches for Detecting and Mitigating the Impact of Fake News in Online Information Ecosystems	142
<i>Temitayo Elijah Balogun, Samson Adebowale Abosedo, Shade Christiana Joda, Oluwaseyifunmi Balogun, Paul Kehinde Olotu, Samuel Gbenga Faluyi</i>	
Comparative Analysis of Unsupervised Machine Learning Models on Early Detection of Breast Cancer.....	148
<i>Okebule Toyin, Oluwaseyi A. Adeyemo, Oguntimilehin Abiodun, Stephen E. Obamiyi, O. B. Abiola, Bukola Badeji-Ajisafe, Opani M. Aweh, Christianah O. Akinduyite, O. A. Sanya</i>	
Risk Factors Analysis of Breast Cancer Among Women in Nigeria.....	154
<i>Okebule Toyin, Oluwaseyi A. Adeyemo, Abiodun Oguntimilehin, Stephen E. Obamiyi, Bukola Badeji-Ajisafe, O. B. Abiola, Opani M. Aweh, Christianah O. Akinduyite, O. A. Sanya</i>	
Deployment of an Electronic-Based Approach for Fruits Juice Ingredient Analysis	164
<i>Kufre Esenowo Jack, Lanre Joseph Olatomiwa, Yahaya Asizehi Enesi, Grace Idowu Olaleru, Nnaemeka Emmanuel Ugwuogor, Babawuya Alkali</i>	
Enhancing Network Security: Intrusion Detection Systems with Hybridized CNN and DNN Algorithms.....	172
<i>Hakeem Babalola Akande, Charles Awoniyi, Roseline Oluwaseun Ogundokun, Ayopo Abdulkarim Oloyede, Osuolale Abdramon Yamiyu, Adeniran Temitayo Caroline</i>	
Numerical Solution of Second-Order Fredholm Integro-Differential Equations Using the Chebyshev Collocation Method	179
<i>S. E. Fadugba, A. F. Olanrewaju, F. E. Duke-Umanah</i>	
Biosynthesis, Characterization and Optimization of Silver Nanoparticles Using Exopolysaccharide from <i>Pleurotus</i> SP.....	189
<i>O. O. Osemwegie, C. O. Adetunji, A. O. Dada, E. A. Ayeni, C. O. Nwonuma, O. A. Ojo, R. E. Damilare, O. O. Alejlowo, T. Adelani-Akande</i>	
Applicability of Transition Metals as Grain Refiners in Cu Shape Memory Alloy: Potentials and Trends.....	197
<i>Adeolu A. Adediran, Faith Babalola, Francis O. Edoziuno, Emanuel Ajisegiri</i>	

Continuous Two-Step Block Methods for Solving Special Third Order of Ordinary Differential Equations.....	201
<i>A. F. Olanrewaju, S. E. Fadugba, T. G Shaba, O. J. Akinremi</i>	
The Role of Enteric Bacteria in Elemental Sulfur Therapy.....	210
<i>Olorunfemi Dapo Awarun, Ayoyinka Olufunke Olojede, Abiola Folakemi Olaniran, Omorefosa Osarenkhoe Osemwegie, Remileku Thomas, Owa Stephen Oluwagbenga</i>	
Production and Physico-Mechanical Properties of Ternary-Made (waste Ceramics, Waste Papers, and Sawdust) Particleboard.....	216
<i>Peter P. Ikubanni, Bamidele T. Ogunsemi, Samuel O. Oladimeji, Taofeeq A. Adaja, David E. Enahoro, Adekunle A. Adeleke, Oluwasegun Aladegboye</i>	
An Efficient No-Line-Of-Sight Learning Approach for Prediction of Static Victim Detection Using Genetic Algorithm and Kth Nearest Neighbor Data Classification.....	223
<i>Jiya Adana Enoch, Ilesanmi B. Oluwafemi, Francis A. Ibikunle, Olulope K. Paul, Isaac Onimisi Yusuf, Arowolo O. Michael</i>	
Thermal Effects on Vigna Subterranean Wastes: Enhanced Porosity, Morphological Appearance and Preliminary Adsorption Studies.....	229
<i>Adejumoke Inyinbor, Deborah Bankole, Temitope Ayeni, Oluwasogo Dada, Oluwbenga Bello, Folahan Adekole</i>	
Analysis of an Experimental Digital Read-Outs Slider Crank Mechanism.....	236
<i>Jamiu K. Odusote, Adekunle A. Adeleke, Peter P. Ikubanni, Qudus A. Siyanbola, Oluwasogo L. Ogundipe, Olayinka O. Agboola</i>	
Design and Development of Wireless Controlled Eight-Legged Walking Robot.....	240
<i>Hammed Obasekore, Jamiu K. Odusote, Olajide K. Abdulrahman, Adekunle A. Adeleke, Peter P. Ikubanni, Timothy A. Adekanye</i>	
A Systematic Review of the Primary User Emulation Attack in the Cognitive Radio Network.....	249
<i>Grace Idowu Olaleru, Henry Ohiani Ohize, Umar Suleiman Dauda, Yusuf Onimisi Isaac, Onyemenan John Obiajulu, Ariba Folashade</i>	
Utilizing the q-Shaba Differential Operator on a Specific Category of Analytic Functions.....	256
<i>Timilehin Gideon Shaba, Serkan Araci, Babatunde Olufemi Adebisin</i>	
Development of Hydrometeor Attenuation Prediction Models for Port Harcourt (South/South) Nigeria.....	264
<i>Moses Oluwamuyiwa Olla, Olaitan Akinsanmi, Ilesanmi B. Oluwafemi, Sunday Oluwole Ayodele, Grace Idowu Olaleru, Adebajji Bankole</i>	
Sustainable Bio-Oil and Biochar Products from Waste Biomass: A Review of Production Techniques and Applications.....	271
<i>Peter P. Ikubanni, Uchechukwu F. Robinson, Ayotomiwa C. Adedayo, Deborah E. Danjuma, Olalekan J. Ogunniyi, Adekunle A. Adeleke, Olayinka O. Agboola</i>	
Early Detection of Diabetes Using Supervised Learning Approach.....	278
<i>Bukola Badeji-Ajisafe, Stephen Eytayo Obamiyi, Abiodun Oguntimilehin, Ajibade Idowuvictor, Okebule Toyin, Olanike Akinduyite, Ayodeji Olabanji Olubadeji, Abiola O. B.</i>	
Particle Size Gradation Effect on the Strength of Palm Kernel Shell Aggregate Kerbstone.....	286
<i>Atoyebi Olumoyewa D.</i>	

Advancement in Magnesium Metal Matrix Composites: A Mini-Review of Production Techniques, Properties, and Applications	293
<i>Peter P. Ikubanni, Adekunle A. Adeleke, Samuel O. Oladimeji, Olayinka O. Agboola, Bamidele T. Ogunsemi, Olatunji P. Abolusoro, Peter Onu, Remilekun R. Elewa</i>	
A Review on the Effect of Rare Metals Additions on the Mechanical and Damping Properties of CuAlNi Shape Memory Alloys.....	298
<i>Samuel J. Aliyu, Timothy A. Adekanye, Adeolu A. Adediran, Peter P. Ikubanni, Oluwasogo L. Ogundipe</i>	
Bacterial Genetic Bioaugmentation in the Bioremediation of Soil Pollutants: A Mini Review	304
<i>Damilare Cornelius Olawoyin, Adebowale Odeyemi, Omorefosa Osarenkhoe Osemwegie, Victoria Obayomi, Bolanle Adenike Akinsanola</i>	
Investigation of the Effects of Oyster Shell Powder Bio-Fillers on the Mechanical Properties of Reinforced Epoxy Composites	311
<i>Newton I. Agbeboh, Abon Adus, Adeolu A. Adediran, Isiaka O. Oladele, Oluwasogo L. Ogundipe</i>	
Molecular Interactions Between β -Lactoglobulin Protein and Phytocannabinoids: A Molecular Docking and Dynamics Simulation Study.....	317
<i>Francis O. Atamu, Estari Mamidala, Charles O. Nwonuma, Omookolade O. Alejolowo</i>	
Probiotic Lactobacillus Species Isolated from Fermented Beverages for Antibacterial Activity and Shelf Life Extension Against Spoilage Bacteria.....	321
<i>Azeta I. Joy, Oziegbe Olubukola</i>	
Numerical Solution of Singular Initial Value Problems in Ordinary Differential Equations by Iterative Decomposition and Bernstein Polynomial Methods	326
<i>Okoro Joshua Otonritse, Taiwo Omotayo Adebayo, Babatunde Olufemi Adebisin, Odetunde Olutunde Samuel, Hassan Mumuni Olanrewaju</i>	
Numerical Simulation of Flow in an Artery Using One-Dimensional System of Hyperbolic Quasilinear PDEs	333
<i>Temitope A. Oshin, Julius O. Ehigie, Kingsley E. Abhulimen, Cheng-Jen Chuong</i>	
Advancements in Electronic Bird Repellent Technology: A Comprehensive Review of Effectiveness, Environmental Impact, and Practical Applications	341
<i>Joshua Ade-Omowaye, Peter Ikubanni, Peter Onu, Olalekan Ogunniyi</i>	
Reinforcing Effect of Waste Plastic Bottle Strips on Lime-Admixed Clayey Soil.....	351
<i>D. O. Oguntayo, O. J. Aladegboye, F. O. Adeyemo, O. Aransiola, N. A. Gbadamosi</i>	
Performance Assessment of a Solar-Powered Evaporative Cooling Device for Small-Scale Growers.....	356
<i>Adekanye Timothy Adesoye, Alhassan Elijah, Okunola Abiodun</i>	
Modeling COVID-19 Datasets with Three-Parameter Frechet Distribution	362
<i>Sule Omeiza Bashiru</i>	
Development of a Stock Prediction System Using Deep Learning Model Approach	369
<i>Odunayo O. Olanloye, Abidemi Emmanuel Adeniyi, Oluwatobi Halleluyah Aworinde, Mukaila Olagunju, Jide Kehinde Adeniyi, Israel A. Adeleke, Michael Ugochuckwu Ngoka</i>	
A Circular Local Binary Pattern and Convolutional Neural Network Approach to Mutilated Nigerian Banknotes Recognition.....	376
<i>Jide Kehinde Adeniyi, Abidemi Emmanuel Adeniyi, Oluwatobi Halleluyah Aworinde, Tunde Taiwo Adeniyi, Odunayo Olanloye, Deborah Olufemi Ninan</i>	

Use of Differential Transform Method in Analysing Effects of Magnetohydrodynamic Navier Slip Problem on Entropy Generation	384
<i>Oluwadamilare Joseph Akinremi, Jacob Abiodun Gbadeyan, Tunde Abdulkadir Yusuf, Timilehin Gideon Shaba, Kehinde Peter Ajewole, Joshua Otonrise Okoro</i>	
Annual Effective Dose Analysis and Radiological Effects of Rn-222 in Southern Benue Groundwater Sources	391
<i>Andrew Ichoja, Suhairul Hashim, Oludare. O. Agboola, Eli Danladi, Folashade Habibat Omotehinwa</i>	
HINE-Block: Blockchain Based Model for Secure Health Information Exchange.....	400
<i>Deborah Aleburu, Charles Mabude, Abiodun Mustapha, Uduakobong Umoren, Shade Kuyoro</i>	
Prediction of Noise Pollution in Omu-Aran Township Using Artificial Neural Network	409
<i>O. O. Elemile, O. S. Olajide, M. O. Arowolo, O. P. Ejigboye, E. M. Ibitogbe, E. O. Ajayi, A. O. Akinola, O. A. Ogunrinde</i>	
Analyzing the Interplay of Seasonality and Relapse in the Mathematical Model Dynamics of Sex Workers, Drug Use and Rehabilitation	423
<i>Oluwatayo Michael Ogunmiloro, Samuel Olukayode Ayinde, Abraham Adesoji Obayomi, Oke Michael Olufemi, Temitope Olu Ogunlade, Kayode James Adebayo</i>	
Mosquitocidal Potential of Citrus Paradisi Seed Essential Oil and Molecular Docking of Its Bioactive Constituents Against Culex Quinquefasciatus Acetylcholinesterase.....	437
<i>Babasoji Percy Omoniwa, Titilayo Omolara Johnson, Charles Obiora Nwonuma, Omolola Soji-Omoniwa, Olugbenga Eytayo Adeyemi, Racheal Peace Aristides, Gloria Osegba, Marvellous Amarachi Acho, Timilola Debby Olaolu, Ayokunmi Akinduko, Adekemi Oluwafemi, Damilare Rotimi</i>	
Households Food Security in Imo State, South-East Nigeria: The Role of Non-Farm Income Diversification.....	447
<i>Matthew Durojaiye Ayeni, Olasunkanmi Bamiro, Opeyemi Gbenga, Matthew Olufemi Adio, Ayotunde Owolabi</i>	
Neural Gas Counter Propagation Neural Network (NG CPNN): A Novel Model for Face Recognition	453
<i>Kazeem Michael Olagunju, Adeleye Samuel Falohun, Alice Oluwafunke Oke, Marion O. Adebisi</i>	
Effect of Sandy-Bituminous Coating on the Splitting Tensile Strength of Bamboo Reinforced Concrete	460
<i>O. D. Atoyebi, S. O. Aina, S. O. Odeyemi, M. A. Etim</i>	
Decadal Evolution of Energy Efficiency in Network Architectures: A Systematic Review.....	466
<i>Yifei Guo, Shuyang Yu, Yiqing Xu</i>	
Phytochemical, Antimicrobial, Antioxidant, Antimycobacterial and Gc-Ms Analysis of the Plant <i>Crateva Adansonii</i>	472
<i>Christiana Oluwatoyin Ajanaku, Ademosun Theresa Olabisi, Ajanaku Kolawole Oluseyi, Owolabi Ayotunde Olayinka, Akintokun Oyeronke Abosede</i>	
Development of a Secure Framework for Electronic Voting in Nigeria Using Paillier Cryptosystem	479
<i>Toba Paul Ayeni, Opani M. Aweh, Bukola Badeji-Ajisafe</i>	
The Influence of Digital Adoption, Adaptive Leadership and Risk Management Implementation on Organizational Resilience: An Empirical Study in the Indonesian Banking Industry	490
<i>Boy Tjahyono, Mohammad Hamsal, Rano Kartono Rahim, Willy Gunadi</i>	

Network Analysis of the Protein-Protein Interaction of Insecticide Resistance in Anopheles Gambiae	497
<i>Abednego Shekari, Miracle Enwere, Marion Adebisi, Ezekiel Adebisi</i>	
Exploring the Implementation of Activity-Based Costing (ABC) Among Manufacturing Companies in Nigeria.....	510
<i>Ben-Caleb Egbide, Madugba Joseph, Adesola Ayomide, Jane Ogochukwu Ben-Caleb, Ibrahim Abdul Lateef, Ekanem Vivian</i>	
Implications of Modern Technologies on Bioenergy, Bioproducts, and Environmental Sustainability	519
<i>Peter Onu, Ibikunle Rotimi Adebayo, Adediran Adesoji Adeolu, Charles Mbohwa</i>	
How Machine Learning is Impacting Energy Production from Biomass: A Systematic Review and Multiple Case Study	527
<i>Peter Onu, Emmanuel Ajisegiri, Peter Ikubanni, Charles Mbohwa</i>	
Predictors of Computer Knowledge Among Healthcare Professionals in Benue South, Nigeria.....	534
<i>Temidayo Oluwatosin Omotehinwa, Augustine Ovie Edegbene, Oga Ode</i>	
Exploring the Drivers of Vulnerability Transitions to Climate Change Among Arable Crop Farming Households in Nigeria	542
<i>Toluwalase Awe, Olasunkanmi Bamiro, Ologbon Olugbenga, Mojisola Kehinde, Owa Ebunlomo, Sodipe Solaja, Ayojimi Wale, Oriade Opeyemi</i>	
Prediction of Oral Cancer Using Deep Transfer Learning.....	554
<i>Bolaji A. Omodunbi, Ibrahim A. Adeyanju, Adedayo A. Sobowale, Afeez A. Soladoye, Chiazoka Obasi, Gbenga Mebawondu</i>	
A Web-Based Sentiment Analyzer for Tweets Using Machine Learning Techniques	565
<i>Modupe Agagu, Samuel Damilare Gbadebo</i>	
Early Prediction of Sepsis Using Ensembled Learning	572
<i>Olanike Christianah Akinduyite, Bukola Badeji-Ajisafe, Stephen. E. Obamiyi, Abiodun Oguntimilehin, Okebule Oluwatoyin, Adebisola Tope-Oke, Kikelomo F. Jaiyesinmi, O. B Abiola, Bose Ayogu</i>	
The Potential of Smart Contracts in Blockchain-Based Supply Chain Management for Automation and Sustainable Manufacturing: An In-Depth Analysis and Perspectives	580
<i>Peter Onu, Charles Mbohwa, Anup Pradhan, Nelson Sizwe Madonsela</i>	
Isolation and Characterisation of Ciprofloxacin-Degrading Bacteria from Pharmaceutical Effluent.....	586
<i>Oladapo Opeyemi Bamidele, Peter Folorunsho Ayodele, Faith Olaitan, Emmanuel Tomisin Bello</i>	
Development of an Automated Service Level Agreement Negotiation Framework for SaaS Cloud E-Marketplace	590
<i>Uche Nnaji, Ezenw Oke Azubuike, Emmanuel Adetiba, Damola Akinola</i>	
Trapped Human Victims Machine Learning Detection Model Using Recursive Feature Elimination with SVM Classification Algorithm	595
<i>Jiya Adana Enoch, Ilesanmi B. Oluwafemi, Francis A. Ibikunle, Olulope K. Paul, Nik Syahrim B N Anwar, Ariba Folashade Olamide</i>	
Impact Assessment of a Solid Waste Dump Site on its Host Environment: Particulate Matter	602
<i>Daniel Olawale Oke, Jacob Ademola Sonibare, Ebenezer Leke Odekanle, Funso Alaba Akeredolu, Adeniyi Tajudeen Olayanju, Charity O. Aremu, Bamidele Sunday Fakinle</i>	

A Web-Based Biometric System for E-Voting.....	610
<i>Moses Kazeem Abiodun, Jide Kehinde Adeniyi, Abidemi Emmanuel Adeniyi, Joseph Bamidele Awotunde, Dayo Rueben Aremu, Olabode Samuel, Ayodele A Adebisi, Oladayo G. Atanda</i>	
Comparative Analysis of Machine Learning Techniques for the Detection of Heart Disease.....	619
<i>Jide Kehinde Adeniyi, Tunde Taiwo Adeniyi, Emmanuel Abidemi Adeniyi, Moses Kazeem Abiodun, Joseph Bamidele Awotunde</i>	
Application of Computer Vision Approach for Automation and Classification of Fashion Store	627
<i>Aminat Adebayo, Moses Kazeem Abiodun, Ifeoluwa Temitayo Awoniran, Abidemi Emmanuel Adeniyi, Joseph Bamidele Awotunde, Jide Kehinde Adeniyi, Dayo Rueben Aremu</i>	
Combined Economic Emission Dispatch Using a Novel Quantum Behaved-BAT Algorithm for a Hybrid Microgrid	636
<i>Kayode Timothy Akindeji, Anuoluwapo Aluko, Daniel R. E. Ewim, Jafaru M. Egieya, Thokozile Mazibuko, Katleho Moloji</i>	
A Standalone Hybrid Energy System Optimization for an Efficient Sustainable Energy Consumption	645
<i>Abayomi A. Adebisi, K. Moloji</i>	
Analysis of Machine Learning Models for Spam Email Detection and Real-Time Integration.....	651
<i>Ezinne Ruth Ejirika, Temidayo Oluwatosin Omotehinwa</i>	
Waste to Wealth: Engineering Solutions for SDG 12	661
<i>Adediran Adeolu Adesoji, Joshua Ade-Omowaye, Adeniran Afolalu, Oguntayo Adebisi Sunday</i>	
Robotics and Automation in Engineering: Perspectives for the Digital Economy	669
<i>Joshua Ade-Omowaye, Adediran Adeolu A, Emmanuel Ajisegiri, Afolalu Sunday A, Immanuel Oji</i>	
Performance of Quadrature Spatial Modulation-Multiple Input Multiple Output System Over Indoor Power Line Communication System.....	676
<i>Adebisi Adedayo, Ayodele Oluwale, Ilesanmi B. Oluwafemi, Olaitan Akinsanmi, Babatunde S. Adejumobi, Dickson O. Egbune, Aaron B. Adedayo</i>	
Indoor Occupancy Estimation Using Advanced Support Vector Machine Learning Algorithm.....	682
<i>Elizabeth Y. Fabunmi, Ayodele Oluwale, Ilesanmi B. Oluwafemi, Olaitan Akinsanmi, Agbolade J. O., Oluyemi O. Petirin, Onyemenam J. Obiajulu, Ijagbemi Dotun</i>	
Empowering Healthcare with AI: Brain Tumor Detection Using MRI and Multiple Algorithms	688
<i>Micheal Olaolu Arowolo, Williams Oluwatobiloba Ajayi, Prisca Olawoye, Oluwatomilola Babajide, Happiness Eric Aigbogun, Mukhtar Damola Salawu, Marion Olubunmi Adebisi, Ayodele Adebisi</i>	
Naringin Abrogates Acrylamide-induced Renal Dysfunction by Modulating Biochemical and Histological Alterations in Rats.....	699
<i>Bukola Tola Aluko, Seun Funmilola Akomolafe, Olakunle Bamikole Afolabi, Korede Samson Ibiapo, Adekemi Grace Oluwafemi</i>	
Wind Energy Utilization in Kaduna State: Challenges and Opportunities	707
<i>Hassan B. A, Aminu U., Muhammad H.</i>	
GeneDB4PCa: Developing and Curating a Comprehensive Gene Database for Prostate Cancer Single Nucleotide Polymorphisms	712
<i>Victor Osamor, Precious Adebola</i>	

Techno-Economic Analysis of a Solar-Pumped Hydro Storage and Solar Photovoltaic System	721
<i>J. O. Uwagboe, O. O. Ayinde, S. O. Braimoh</i>	
Handwritten Signature Verification Model Using Transfer Deep Learning Technique	728
<i>Olatunde David Akinrolabu, Olusola Olajide Ajayi, Akinola Elijah Ebitigha, Adewuyi Adetayo Adegbite, Joy Rotimi Obafemi, Jacob Kehinde Ogunleye</i>	
Facial Appearance Analysis for Age Group Prediction Using Convolutional Neural Network	734
<i>Akinola Elijah Ebitigha, Olusola Olajide Ajayi, Olatunde David Akinrolabu, Adewuyi Adetayo Adegbite, Joy Rotimi Obafemi, Jacob Kehinde Ogunleye</i>	
Game Theory Approaches for Radio Access Technology Selection Algorithm: A Review	740
<i>Folashade Ariba, Zacheus Adeyemo, Festus Ojo</i>	
Optimization of Temperature in Aspergillus Niger (USM F4) Assisted Solid State Fermentation for Protein Enrichment of Wheat Bran.....	748
<i>Razaq Animashahun, Samuel Olawoye, Olayinka Alabi, Funmilayo Okeniyi, Adedeji Animashahun, Precious Oluwafemi</i>	
Modeling the Influence of Antimony on the Mechanical Properties of Carbide Austempering Ductile Iron Using an Artificial Neural Network	752
<i>Abel Barnabas, Adeolu A. Adediran, Chindapi Nathan, Timothy A. Adekanye, Emmanuel Ajisegiri</i>	
Development of a Smart Device to Measure Extreme Temperature and Air Pollution	761
<i>Toju Esther Babalola, Abayomi Danlami Babalola, Oluwaseun Temitope Faloye, Ainoko Jonah Ayoide, Abiodun Okunola, Olayiwola Akin Akintola, Alhassan Elijah, Olasehinde David</i>	
Estimation of Amaranthus (a. Cruentus) Crop Evapotranspiration Under Drip Irrigation in Omu-Aran, Kwara State	768
<i>Emmanuel Ariyo, Oluwaseun Temitope Faloye, Abiodun Okunola, Ayodele Ebenezer Ajayi, Abayomi Fashina, Toju Babalola</i>	
Physio-Chemical Characteristics of Sawdust as a Growth Medium in Hydroponics	776
<i>Abiodun Afolabi Okunola, Oluwaseun Temitope Faloye, Smart Idumoro Samuel</i>	
Environmental Impact of TIG and MIG Welding: A Sustainability Perspective	781
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Environmental Impact Assessment in Asset Integrity Management: Sustainable Practices in Oil and Gas Facilities	787
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Digitalization and Industry 4.0 Technologies in Asset Integrity: A Comparative Analysis in the Oil and Gas Sector.....	792
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Comparative Analysis of TIG and MIG Welding Techniques	799
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Innovations in TIG and MIG Welding Technologies: Recent Developments and Future Trends.....	805
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	

Impact of Turmeric-Based Diet and Its Aqueous Extract on Rats Treated with Alloxan for Alkaline Phosphatase and Aspartate Aminotransferase Levels	811
<i>Adekemi G. Oluwafemi, Bukola T. Aluko, Marvellous A. Acho, Damilare E. Rotimi, Charles Nwonuma, Ayokunmi Akinduko</i>	
A Comparison Between Winter and Summer Solar Drying Using a Modified V- Corrugated Solar Air Heater	816
<i>U. Aminu, H. Muhammad, B. A. Hassan, Y. Saad</i>	
Role of Oxidative Stress and Mitochondria Dysfunction in Diabetes Mellitus Disease	821
<i>Oluwafemi Adeleke Ojo, Chinonyelum Ilomuanya, Matthew Iyobhebhe, Damilare Emmanuel Rotimi, Adebola Busola Ojo, Olalekan Elijah Odesanmi, Eunice Tofunmi Obasanmi, Charles Nwonuma</i>	
Microorganisms as Agents in Climatic and Environmental Challenges	828
<i>Oyenike Victoria Falade, Faith Jesupemi Olaitan, Oluwatobi Victoria Obayomi, Lawrence Adetunji Akintunde, Bolanle A Akinsunola, Charles Obiora Nwanoma, Stephen Olugbemiga Owa, Osarenkhoe Omorefosa Osemwegie</i>	
Analysis of Economic and Environmental Sustainability of Solar Photovoltaic Technology for Rural Electrification in Nigeria: A Case Study	837
<i>Bankole Adebajun, Isaac Onimisi Yusuf, Julius Ayodele Osalade, Emmanuel Taiwo Fasina, John Obiajulu Onyemenam, Samson Adedayo Adeleye</i>	
Bioremediation of Soils Contaminated with Both Petroleum Hydrocarbons and Heavy Metals	845
<i>Bolanle Adenike Akinsanola, Damilare Cornelius Olawoyin, Olusoji Olusegun Adebisi, Omorefosa Osarenkhoe Osemwegie</i>	
Environmental Responsiveness Towards Desertification and Land Degradation: A Review of Literature on Restoration Strategies in Dryland Communities in Africa	854
<i>Charity A. Ben-Enukora, Agwu A Ejem</i>	
A Review on the Current and Future Perspective of Tribology Sustainability	863
<i>Joseph F. Kayode, Adediran Adeolu A, Sunday L Lawal, Sunday A. Afolalu, Elewa Remilekun Racheal, Ogunniyi Olalekan J</i>	
Essentials and Future Progress of Green Tribology in Industry 4.0	872
<i>Adediran Adeolu A, Joseph F. Kayode, Sunday L Lawal, Sunday A. Afolalu, Elewa Remilekun Racheal</i>	
Modeling the Turbidity Level of Asejire Reservoir Using Machine Learning Techniques	883
<i>Taiwo Mobolaji Adegoke, Oladapo Muyiwa Oladoja, Aliyu Abba Mustapha, Sule Omeiza Bashiru, Dimeji Ebenezer Aderupatan, Oluwakemi Elizabeth Abiodun</i>	
Development and Performance Evaluation of Coconut Dehusking Machine	889
<i>H Muhammad, U. Aminu, A. I. Isah, B. A Hassan, A. A Muhammad</i>	
Enhancing Engagement in Virtual Classrooms: A Contactless Multi-Modal Emotion Detection Model	894
<i>Deborah Olaniyan, Marion O. Adebisi, Abayomi A. Adebisi, Julius Olaniyan</i>	
Automated Area Based Explosive Trace Detection System	903
<i>Monday F. Ohemu, Ambrose A. Azeta, Ibrahim A. Adeyanju, Nuradeen Maidoki</i>	
Current Trend and Performance Evaluation of Machine Learning Methods for Predicting Host-Pathogen Protein-Protein Interactions	908
<i>Jerry Emmanuel, Itunuoluwa Isewon, Grace Olasehinde, Jelili Oyelade</i>	

IoT-Integrated Sensors and Actuators: Sustainable Manufacturing Through Mechatronics in Industry 4.0.....	922
<i>Peter Onu, Charles Mbohwa</i>	
Mechatronic Integrated Solutions: Advancing Sustainable Manufacturing Through Collaborative Engineering, Industry 4.0 Innovations, and Digital Economy Synergies	929
<i>Peter Onu, Charles Mbohwa</i>	
Simulation of Residual Stress and Deformation in Quenched C39 Steel Under Controlled Immersion Speed.....	936
<i>Taye S. Olabamiji, Segun M. Adedayo, Peter P. Ikubanni, Rotimi A. Ibikunle</i>	
Experimental Investigation on the Use of Vernonia Amygdalina-Mucuna Pruriens Dye Mixture as Sensitizer in Dye-Sensitized Solar Cell.....	944
<i>Charity Segun Odeyemi, Adegbenro Sunday Ajani, Mojinyinola Koforola Awodele, Ayodeji Oladiran Awodugba, Godwin Babatunde Egbeyaleline</i>	
Analysing the Roles of Robotics in Manufacturing Organizations in the Era of Industry 4.0.....	951
<i>Adedotun Adetunla, Esther Akinlabi, Tien Chien Jen, Samuel-Soma Ajibade</i>	
Harnessing the Power of Artificial Intelligence in Materials Science: An Overview.....	956
<i>Adedotun Adetunla, Esther Akinlabi, Tien Chien Jen, Samuel-Soma Ajibade</i>	
Performance Evaluation of an Electronics Walking Stick for the Blind.....	962
<i>Adedotun Adetunla, Esther Akinlabi, Tien Chien Jen, Wasiu Oke, Samuel-Soma Ajibade</i>	
Antibacterial Activities and Fourier Transform Infrared Analysis of Neem Leaves.....	969
<i>Kehinde J. Ayantola, Adesewa B. Sonuga, Marvellous A. Acho, Adekemi G. Oluwafemi</i>	
Assessing the Dynamics of Monkeypox Transmission: A Comprehensive Mathematical Modelling Approach	977
<i>Oluwakemi Elizabeth Abiodun, Florence Dami Ayegbusi, Adebimpe Olukayode, Esther Oluwatoyin Adegbola, Benjamin Ajokpaoghene Okuh</i>	
Application of Three Leaf Domain on a Subclass of Bi-Univalent Functions	994
<i>Timilehin Gideon Shaba, Serkan Araci, Babatunde Olufemi Adebisin</i>	
On Certain q-Ruscheweyh Operator Involving a New Subclass of Univalent Functions	1001
<i>Timilehin Gideon Shaba, Matthew Olanrewaju Oluwayemi, Benedicta Aladeitan, Olanrewaju Abraham Femi, Sunday Emmanuel Fadugba, Akinremi Joseph Oluwadamilare</i>	
A Study on Enhanced Mechanical Properties and Microstructure of Aluminium-Matrix Composites Produced from Silica	1007
<i>Adediran Adeolu A, Ogunsemi Bamidele T, Adeniran Oluwagbenga, Adeyemi Winner, Agbaso Victor C</i>	
Engineering Transformation: From Computer Aided Design to the Cloud.....	1015
<i>Adediran Adeolu A, Ajewole Joshua B. Kayode, Emanuel Ajisehiri</i>	
Development of a Digital Egg Counting System for Eggs on a Conveyor Belt Using Sensor.....	1031
<i>J. B Ajewole, Samuel J. Aliyu, J. O Ojediran, E. A. S Ajisehiri, S Olowo, S Amamina, D Oluwatoba, T. J Erinle</i>	
Revolutionizing the Life Insurance Industry: Exploring the Interplay of Digital Transformation, Transformational Leadership, and Innovation Capability	1040
<i>Risye Dillianti, Rano Kartono Rahim, Willy Gunadi, M. Hamsal</i>	

Machine Learning Models for Predicting Movie Ticket Pricing.....	1047
<i>Ibidun Christiana Obagbuwa, Alfred John Mwanza</i>	
Value Engineering: Index for Cost Reduction in the Manufacturing Environment.....	1057
<i>Samson O Ongbali, Olanrewaju Awoyemi, Enesi S. Yekini, Joseph Dirisu</i>	
An Improved Webpage Phishing Detection Based on an Ensemble Feature Selection and Multilevel Techniques.....	1063
<i>Bamidele Musiliu Olukoya, Emmanuel Tunosun Aderemi, Patrick O. Olabisi, Adekunle A. Osobukola, Adedayo-Ajayi Victoria Oluwaseyi, Roseline Oluwaseun Ogundokun, Olalere Abayomi Olaniyi, Oluwambo Tolulope Olowe</i>	
K- Nearest Neighbour-Based Chronic Kidney Disease Prediction System: A Case of Toxic Metals in Urine.....	1073
<i>Adebusola Tope-Oke, Bukola Badeji-Ajisafe, Abiodun Oguntimilehin, Martin Victor Inyang, Opani Aweh, Oluwatoyin Abiola</i>	
Non-Literates Population in Pandemics: An Appraisal of NCDC Strategies for Communicating Covid-19 Safety Protocols in Selected States of South-West Nigeria	1079
<i>Rachael O. Ojeka-John, Bernice O. Sanusi, Omowale Adelabu, Felix Olajide Talabi, Olanrewaju O. P. Ajakaiye, Isaac A. Oyekola, Oluwakemi E. Akerele-Popoola</i>	
Exploring Deep Learning Architectures for Enhanced Cyber Threat Detection: A Survey.....	1088
<i>Toluwase Sunday Oyinloye, Micheal Olaolu Arowolo, Roseline Oluwaseun Ogundoku, Rajesh Prasad</i>	
A Short Communication on the Wound Healing Abilities of Medicinal Plants in Africa.....	1098
<i>Osas Godshelp Egharevba, Mmesomachi Lauretta Bright, Olutola Omotayo Dosumu, Peter Abimbola Oluyori, Solomon Oluwole Oladeji, Oluwatoyin Christiana Ajanaku, Stanislaus Ngaitad Njinga, Abiodun Oyetunji Shittu</i>	
Drilling of Titanium Alloy (Ti6Al4V) Using Response Surface Methodology: An Experimental Approach	1108
<i>Ilesanmi Daniyan, Sesan Peter Ayodeji, Augustine Lawal, Siviwe Mrausi</i>	
Assessment of Carbon Fibre Composites for Product Development in Aerospace and Transportation Industries	1114
<i>Korede J. Ogundare, Felix Ale, Olatunbosun T. Yusuf, Seyi F. Olatoyinbo, Ilesanmi A. Daniyan</i>	
Towards the Development of Resilient Manufacturing Systems: A Systematic Literature Review	1122
<i>Yvonne Magodi, Ilesanmi Daniyan, Khumbulani Mpfu, Felix Ale</i>	
Towards Green Transportation: Design of an Electrically Powered Golf Cart System	1130
<i>Ilesanmi Daniyan, Sesan Peter Ayodeji, Lanre Daniyan, Augustine Lawal</i>	
Comparative Study of Numerical Solutions to non-Linear Equations Using Regula-Falsi and Newton-Raphson Method.....	1137
<i>A. F Olanrewaju, S. E Fadugba, O. P Adeyemi</i>	
The Dynamics of Cessationism - Terrorism Co-Menace in Nigeria: A Numerical Mathematical Model with Diffusion	1143
<i>Oluwatayo Michael Ogunmiloro, Samuel Olukayode Ayinde, Oluwaseun Biodun Onuoha, Adamu Gambo, Caleb Temitopeakinwumi, Grace Engeti, Ola Akinyele, Yoyinade Joose Aborisade, Mario Raso</i>	

Deep Learning Approach with a Convolutional Neural Network for Landslide Detection Using Remotely Sensed Images.....	1148
<i>Gloria Pucoe, Ibidun Christiana Obagbuwa</i>	
Comparison of Occupational and Environmental Health Hazards Associated with the Use of Improved and Conventional Cassava Processing Technologies in Nigeria	1157
<i>Victoria Adeniyi, Jones Akangbe, Ebenezer Kolawole, Omebere Okonta</i>	
3D mmWave MIMO Channel Modeling and Reconstruction for Street Canyon and Highrise Scenarios	1164
<i>Olabode Idowu-Bismark, Oluwadamilola Oshin, Emmanuel Adetiba, Oluwatobiloba Idowu-Bismark</i>	
Design and Implementation of a Single Sign-In Identity (SSID) on the Banking System Using a Blockchain Algorithm	1170
<i>Ishola Oluwaseun Joshua, Michael Olaolu Arowolo, Marion O. Adebisi, Kazeem Alagbe Gbolagade, Julius O. Olaniyan, Emmanuel Tunbosun Aderemi</i>	
Realization of a Smart Power Line Real-Time Monitoring System	1182
<i>Monday F. Ohemu, Lawal Ibrahim, Oluwaseun O. Tooki, Mudasiru Abiodun Saloro, Zuleihat Ohunene Zubair, Opeyemi O. Adekogba</i>	
Housing Price Prediction Using Machine Learning Techniques	1189
<i>Ibidun Christiana Obagbuwa, Samantha Danster</i>	
The Role of Value Engineering in Building Construction Resources Optimisation and Environmental Protection: An Overview.....	1201
<i>Samson O Ongbali, Opeyemi E. Akerekan, Enesi S. Yekini, Nduka E. Udoye</i>	
Application of Bifunctional Catalyst in Optimization of Transesterification of Delonix Regia Seed Oil Via One-Pot Production Route	1210
<i>Olayomi Abiodun Falowo, Olusegun John Ojediran, Ibukun Joedanace Adedara, Olumuyiwa Moses, Bamidele Ogunsemi</i>	
Use of Iot for Sustainable Agriculture	1218
<i>Adeiran Adeolu Adesoji, Peter Onu, Adekanye Timothy Adesoye, Ajisegiri Emmanuel, Sunday Adebisi Oguntayo</i>	
Optimizing Node Communication in Vehicle-To-Vehicle Networks: A Relay Selection Algorithm Based on Multi-Metric Consensus Parameters.....	1226
<i>Abidemi Adejumo, Achonu Adejo, Caroline Alenogeghene, Chuks Ekweme, Kehinde Ake, Ronald Ajiboye</i>	
Kinetics of Corncob Hydrolysis Using a Magnetic Sulfonated Solid Acid Catalyst.....	1237
<i>Olayomi Abiodun Falowo, Babatunde Oladipo, Oluwaseun Oyekola, Joanna Obeme-Nmom, Adeyosola Ilesanmi, Oluwadobobomi Davies</i>	
The Effects of Human Computer Interface on Users.....	1243
<i>Nyiyongu Charles Ngusha</i>	
Cyclic Wetting-Drying Frequency Effect on Hydrophysical Properties of Cashew Plantation Soil	1251
<i>Oluwaseun Temitope Faloye, Goodness Kolade Oyekan, Abiodun Okunola, Ayodele Ebeneze Ajayi</i>	
Optimal Power Allocation in a Rubber-Tired Gantry Crane System: A Case Study of the BSS and the Grid.....	1257
<i>S F Phiri, H M Langa, Q M Thekiso, K Moloji</i>	

A Review of CuAlNiMn Shape Memory Alloy Modified with Rare Earth Metals.....	1263
<i>Timothy A. Adekanye, Samuel J. Aliyu, Adeolu A. Adediran, David Ujunwa, Jesse Ochimana, Bamigboluwaga Isadare, John Odunayo, Victor Emelumba</i>	
Enhancing Students' Learning Motivation and Comprehension by Reflecting on the Practical Applications of Learning Materials in an Education Learning Journal.....	1268
<i>Samuel-Soma M. Ajibade, Lislee Valle, Edralin General, Joshlen Baclayon-Lim, Sarah Jane Colina, Kayode Akinlekan Akintoye, Anthonia Ohuwatosin Adediran</i>	
Evaluation of Cyclic Wetting-Drying Frequency, Land Management History on Soil Hydro Physical Properties	1276
<i>Funmibi Adedamola Faloye, Oluwaseun Temitope Faloye</i>	
Survey on Predictive Algorithms to Detect Insider Threat on a Network Using Different Combination of Machine Learning Algorithms.....	1282
<i>Favour Femi-Oyewole, Victor Osamor, Daniel Okunbor</i>	
Development of Hybridized Solar and Biogas Power Plant for Agricultural Applications	1296
<i>Bukar Goni Kasim, Hussaini Abatcha Geidam, Goni Ahmad Habu</i>	
An Artificial Intelligence-Based Integrated Framework for Lean and Smart Manufacturing: A Case Study of the Rail Industry.....	1301
<i>Felix Ale, Ilesanmi Daniyan, Olugbenga Aderoba, Adeolu A. Adediran</i>	
Assessment of AquaCrop Model in Simulating Maize Yield and Biomass Response to Water Intake Under Rain-Fed Condition in Southwest Nigeria.....	1311
<i>Rachael B. Olasehinde, Toyin P. Abegunrin, David A. Olasehinde, Lamidi Abass, Oluwaseyi M. Abioye, Mathias M. Aniobi</i>	
Reduced Differential Transform Method for Solving Black-Scholes European Options Model in the Sense of Powered Modified Log-Payoff Function	1317
<i>Sunday Emmanuel Fadugba, Adaobi Mmachukwu Udoye, Samuel Chiabom Zelibe, Sunday Onos Edeki, Celestine Achudume, Olusoji Makinde, Teniola Bayowa Babalola, Daniel Kwame Okyere, Adetunji Adedotun Adeyanju, Philip Ajibola Bankole, Samuel Olukayode Ayinde</i>	
Personalized Music Recommendation System Based on Machine Learning and Collaborative Filtering	1321
<i>Joseph Bamidele Awotunde, Moses Kazeem Abiodun, Abidemi Emmanuel Adeniyi, Bakare Hameed Abiodun, Jide Kehinde Adeniyi, Dayo Rueben Aremu, Ayodele A Adebisi, Oladayo G. Atanda</i>	
Opportunities and Challenges from the Intersection of Engineering and the Digital Economy: A Mini Review	1329
<i>Peter Onu, Adediran Adeolu Adesoji, Ajisegiri Emmanuel</i>	
A Mini Review on the Role of Mechatronics in Addressing Energy and Environmental Issues.....	1334
<i>Peter Onu, Adediran Adeolu Adesoji, Ajisegiri Emmanuel</i>	
Cost Minimization in a Smart Grid Using a Genetic Algorithm.....	1339
<i>Jeffer Wanjala, Hendrick Musa Langa, Tom Walingo</i>	
Towards Induction Motor Speed Control Using a Three-Phase to Single-Phase AC-AC Matrix Converter.....	1345
<i>Akani Hlongwana, Hendrick Musawenkosi Langa, Isaac Kwabena Kyere</i>	

Acceptance and Utilization of Information Technology Among Poultry Farmers in Kwara State, Nigeria: A Utaut Model Approach.....	1351
<i>Awotunde Gbenisola Janet, Adekunle Olusegun Adetokunbo</i>	
Modelling of Crime Epidemic for Sustainable Development.....	1358
<i>Okuh Benjamin Ajokpaoghene, Oluwakemi Elizabeth Abiodun</i>	
Design of Four Degrees of Freedom Robotic Arms for an Automated Roselle Tea Process Plant.....	1366
<i>Sesan Peter Ayodeji, Olusola Samuel Olasanoye, Michael Kanisuru Adeyeri, Ilesanmi Afolabi Daniyan</i>	
Application of Artificial Intelligence in Healthcare Systems: A Scientometric Analysis	1373
<i>Samuel-Soma M. Ajibade, Angela Siew Hoong Lee, Muhammed Basheer Jasser, Tomiwa Faith Akinola</i>	
Hybrid Deep Learning for Breast Cancer Diagnosis: Evaluating CNN and ANN on BreakHis_v1_400X	1378
<i>Roseline Oluwaseun Ogundokun, Abdulrahman Tosho Abdullahi, Ajiboye Raimot Adenike, Charles Awoniyi, Hakeem Babalola Akande, Funmilola Falajiki, Victoria Adedayo-Ajayi</i>	
Modification of a New Probability Distribution with Applications to Real Life Datasets	1384
<i>Adenike Oluwafunmilola Olubiyi, Michael Sunday Olayemi, Oluwamayowa Opeyimika Olajide, Sunday Emmanuel Fadugba</i>	
Design, Simulation and Performance Evaluation of Microstrip Patch Antenna Geometries at 6G Network Frequencies.....	1390
<i>Adebayo Segun Adewumi, Victor James, Ibraheem Abiodun Azeez, George Atilade Àlàgbé</i>	
Energy Efficient Control Approach for Street Lighting.....	1397
<i>Mbongiseni Samuel Ntshangase, Hendrick Musawenkosi Langa, Tebello N Donald Mathaba</i>	
A Review of Electric Vehicles Charging and Discharging Patterns and Control.....	1404
<i>John Onyemenam, Paul Olulope, Marion Adebiyi, Emmanuel Osaji, Isaac Onimisi, Grace Olaleru</i>	
A Mini Review on International Collaboration of Agricultural Development in Nigeria.....	1412
<i>Ojediran John Olusegun, Joshua Ade-Omowaye, Adediran Adeolu Adesoji, Olumuyiwa Isaac Moses, Adekanye Timothy Adesoye</i>	
Application of a Stochastic Model to Environmental Pollution	1418
<i>Temitope Olu Ogunlade, Kazeem Adekunle Bakare, Segun Nathaniel Ogunyebi, Sunday Emmanuel Fadugba, Oluwatayo Michael Ogunmiloro, Roseline Bosede Ogunrinde, Samuel Victor Adetunji</i>	
A Multiblock Approach to Solving Fuzzy Differential Equations with Applications.....	1425
<i>Anthony Chukwuemeka Onyekonwu, Joshua Sunday, Joel Nimyel Ndam, Ezekiel Olaoluwa Omole, Femi Emmanuel Amoyedo, Kehinde Peter Ajewole</i>	
An Algorithm for Computing Problems of Singular and Singularly Perturbed Types	1439
<i>Joshua Sunday, Dominic Raymond, Sunday Emmanuel Fadugba, Ezekiel Olaoluwa Omole, Timilehin Gideon Shaba, Emmanuel Tunbosun Aderemi</i>	
Hybrid Block Numerical Algorithm for Direct Solutions of Ordinary Differential Equations of the Third and Fourth Orders	1453
<i>Ezekiel Olaoluwa Omole, Ogunware Bankola Gbenga, Florence Dami Ayegbusi, Peter Onu, Tosin Oreyeni, Kehinde Peter Ajewole</i>	

Network Intrusion Detection Using K-Nearest Neighbors (KNN) and Recurrent Neural Networks (RNN).....	1460
<i>Marion O. Adebisi, Oladayo G. Atanda, Chidinma Okeke, Ayodele A. Adebisi, Abayomi A. Adebisi</i>	
On the Numerical Approximation of First-Order Riccati Differential Equations by Two-Step Second Derivative Block Method with Bernstein Polynomial Basis	1468
<i>Ezekiel Olaoluwa Omole, Olatunde Seun Ige, Peter Onu, Florence Dami Ayegbusi, Taiwo Eniola Akinwumi, Kehinde Peter Ajewole</i>	
Wine Quality Prediction Using Supervised and Unsupervised Machine Learning Techniques	1477
<i>Gloria Pucoe, Ibidun Christiana Obagbuwa</i>	
Development of an Android-Based Expert System for Malaria Diagnosis	1483
<i>Marion Adebisi, Ayodele Ariyo Adebisi, Adebayo-Ajayi Victoria Oluwaseyi, Moses Kazeem Abiodun, Abidemi Emmanuel, Adeyemo Bamidele Raphael, Kolawole Ojo Adekunle, Francis B. Osang</i>	
Gear Failures and Probable Solutions-A Short Review.....	1491
<i>Enesi Y. Salawu, Vanessa O. Success-Omachi, Olanrewaju O. Awoyemi, Opeyemi E. Akerekan, Samson O. Ongbali, Innocent Airewa</i>	
Modulatory Effects of Ethanol with Nicotiana Tabacum and Cannabis Sativa on Markers of Brain Function and Haematological Parameters: In-Vivo and In-Silico Approach.....	1495
<i>Charles Nwonuma O., Blessing Olwafunmilola Olajide, Boluwatife Afolabi, Babasoji Omoniwa Percy, Nwikwe David Chukwuma, Omokolade Oluwaseyi Alejowo, Tobiloba Christiana Elebiyo, Omowumi Titilola Kayode, Oluwafemi Adeleke Ojo, Olasaju Taiwo Isreal, Siddiq Ali Idoko, Odunayo Anthonia Taiwo, Oludipe Emmanuel Olorunleke</i>	
Condition Monitoring of Spur Gears in Bottling Machines: A Review.....	1507
<i>Olanrewaju O. Awoyemi, Joseph Azeta, Philip O. Babalola, Enesi Y. Salawu, Opeyemi E. Akerekan, Innocent Airewa</i>	
Review of Aluminium Beverage Can Production and Its Associated Problems.....	1518
<i>Opeyemi E. Akerekan, Joshua O. Okeniyi, Enesi Y. Salawu, Olanrewaju O. Awoyemi, Innocent Airewa</i>	
Design and Implementation of a Web-Based Credit Card Fraud Detection System.....	1523
<i>Falade Adesola, Obagbuwa Ibidun Christiana, Adebisi A. Aduragba, Omirinlewo Adeyinka</i>	
Smart Home Innovations – a Mini Review	1533
<i>Oluwasogo L. Ogundipe, Valentine U. Nwafor, Ayomide A. Ajuwon, Etinosa U. Uwagboe, Emmanuel E. S. A. Ajisegiri, Adeolu A. Adediran, Peter P. Ikubanni, Peter Onu, Olalekan. J. Ogunniyi, Adekunle A. Adeleke</i>	
Online Bayesian Model Selection Using the Extended Kalman	1539
<i>Michael Quaicoe</i>	
ICT, Human Capital and Sustainable Development in Sub-Saharan Africa	1545
<i>Ademola Onabote, Tawio Owoeye, Barnabas Obasaju, Joseph Ogunjobi, Victor Ahmed, Olabisi Oladipo, Ayooluwa Aregbesola, Rotimi Ogunjumo, Stephen Ibitowa, Paul Adeyemi, Esosa Onabote, Ayanfeoluwa Ashaolu</i>	
Cardiovascular Disease Risk Prediction for People Living with Hiv Using Ensemble Deep Neural Network.....	1552
<i>Victor O. Eguavoen, Frank I. Amadin, Emmanuel Nwelih</i>	

The Implementation of DeLone and McLean Method to Measure the Success of PMCS Application at Wij Aya Karya Rekayasa Konstruksi Inc.....	1561
<i>Nadya Rahma Lestanti, Kintan Umari, Ihwan Agung Santoso, Suzanna</i>	
Federated Learning-Based Asthma Prediction Model in Children	1567
<i>Ekpo Raphael Henshaw, Victor Chukwudi Osamor, Ambrose A. Azeta</i>	
Designing a Model for Predicting Asthma in Adolescent Using Map Reduce and Federated Learning	1573
<i>Raphael Henshaw Ekpo, Victor Chukwudi Osamor, Ambrose A. Azeta, Kayode Akindeji, Adeyinka Elizabeth Orelaja</i>	
Blockchain Technology-Based Framework for Food Supply Chain Traceability	1581
<i>A. J Atachin, O. B Abiola, Bukola Badeji-Ajisafe, Okebule Toyin, Oguntimilehin Abiodun, G. O Babalola, A. M Tope-Oke, O. Y Saka-Balogun, O. A Sanya</i>	
Design and Execution of a Direct Number Base Calculator.....	1591
<i>Femi Emmanuel Amoyedo, Jimoh Ebunayo Rachael, Tobi Joseph Fabiyi, Ajayi Damilola Ifeoluwa, Olaoluwa E. Omole, Kehinde Peter Ajewole</i>	
Blockchain-Based Platforms for Agricultural Supply Chains	1597
<i>Oliver N Osuagwu, Saheed Lekan Gbadamosi, Evans. E. Ojo</i>	
An Overview of Value Engineering in Component Fabrication and Assembly.....	1603
<i>Olanrewaju Awoyemi, Samson O. Ongbali, Enesi S. Yekini, Nduka E. Udoye</i>	
Prediction of Student Academic Performance Based on Machine Learning Model.....	1609
<i>Isreal M. Ogundele, Olutosin Taiwo, Asegunoluwa E. Babalola, Olumide C Ayeni</i>	
Revolutionizing Mechanical Engineering: CAD'S Evolution, Cloud Impact and Future Trends.....	1620
<i>A. A Adediran, T. J Erinle, J. B Ajewole, S. J Aliyu</i>	
Tribological Considerations in Additive Manufacturing: 3D Printing Materials and Techniques.....	1628
<i>Adediran Adeolu A, Peter Onu, Afolalu Sunday A, Sunday L. Lawal</i>	
A Mini Review on Aerospace Engineering: Lubrication Challenges and Innovation Tribology.....	1636
<i>Afolalu Sunday A, Peter Onu, Adediran Adeolu A, Sunday L. Lawal</i>	
Green Tribology, Sustainable Lubrication Practices and Environmental Impact: A Mini Review	1645
<i>Afolalu Sunday A, Peter Onu, Adediran Adeolu A, Aliyu Samuel</i>	
An Overview on Impact of Surface Roughness on Tribological Behaviour.....	1654
<i>Adediran Adeolu A, Peter Onu, Afolalu Sunday A, Monye Stella I</i>	
CO ₂ Generation from Biogas: A Comprehensive Study on Rate Determination, Upgrading Techniques, and Environmental Implications.....	1664
<i>Rotimi Adebayo Ibikunle, Olalekan Joseph Ogunniyi, Peter Onu, Joshua A. Ade-Omowaye, Ojo Oluwasegun God'Sfavour, Nwachukwu Priase C, Godspower Oghenemaro Great, Obiaku Chisom Matthew</i>	
A Hidden Markov Model-Based Parts-Of-Speech Tagger for Yoruba Language.....	1670
<i>Abiola O. B, Bankole O. H, Adeyemo O. A, Adewole L. B, Ogundipe A. T, Saka-Balogun O. Y, Obamiyi S. E, Okebule Toyin, Christianah O. Akinduyite</i>	

Automatic Spelling Corrector for Yorùbá Language Using Edit Distance and N-Gram Language Models.....	1675
<i>Abiola O. B, Erinfolami Oluwaseyi, Adewole L. B, Opani O. M, Oguntimilehin Abiodun, Babalola G. O, Bukola Badeji-Ajisafe, Adigun K. A, Sanya O. A</i>	
Plants Sources of Food Preservatives.....	1681
<i>Omolara Rokeebat Alabi, Solomon Oluwole Oladeji, Peter Abimbola Oluyori, Osas Godshelp Egharevba, Christiana Adetola Oladipo, Christiana Ajanaku, Temitope Deborah Bankole</i>	
Effect of Aqueous Ethanolic Leaf Extract of Ficus Capensis Thunb. in Clonidine-Induced Depression Model.....	1687
<i>Ayokunmi Akinduko, Charles Nwonuma, Adekemi Oluwafemi, Magdiel Bolaji</i>	
A Review on the Challenges and Prospects in Harnessing Virtual Reality in Education	1693
<i>Adedotun Adetunla, Esther Akinlabi, Tien Chien Jen, Imhade P. Okokpujie, Samuel-Soma Ajibade</i>	
Development and Analysis of a Novel Six-Step Numerical Technique for Solving Higher Order Fredholm integro-Differential Equations.....	1698
<i>Abraham Femi Olanrewaju, Sunday Emmanuel Fadugba, Stephen Oluwole Ikubanni</i>	
The Mechanism of Musa Paradisiaca Treatment in Diabetes Mellitus.....	1704
<i>Damilare E. Rotimi, Damilola David Rotimi, Adefunke Oluwaseun Ogunniran, Oluwafemi Adeleke Ojo, Toluwani Ann Oluteye, Rotdelmwa Filibus Maimako</i>	
Dietary Polyphenols in Male Infertility: Mechanistic Approach.....	1712
<i>Damilare E. Rotimi, Akinbowale E. Shalom, Oluwadamisi P. Rotimi, Charles Obiora Nwonuma, Priscilla Ojo, Olabisi E. Bakare, Oluyomi Stephen Adeyemi</i>	
Therapeutic Role of Gallic Acid in Male Infertility	1724
<i>Damilare E. Rotimi, Comfort Komolafe, Matthew Iyobhebhe, Ayokunmi A. Akinduko, Teniola Durojaiye, Elizabeth Temidayo Oluwayemi, Bolanle Akinsanola, Tomilola D. Olaolu</i>	
Effects of Agnus Castus Aqueous Leaf Extract on Letrozole-Induced Polycystic Ovarian Syndrome in Rats.....	1733
<i>Tomilola D. Olaolu, Damilare E. Rotimi, Toluwalaju J. Okuntola, Charles Nwonuma, Ayotunde P. Olaolu</i>	
Assessment of Factory Workers Exposure to Particulate Matter Fractions Using Exceedance Factor and Pollution Standard Index	1739
<i>Bamidele Sunday Fakinle, Daniel Olawale Oke, Jacob Ademola Sonibare, Abiodun John Adewale, Abigail Omolara Adetoyese, Oluwakayode Olanrewaju Fasuuhan</i>	
Binary System Separation of Methanol and Water on a Distillation Column	1746
<i>Abigail Omolara Adetoyese, Foluso Alaba Akeredolu, Elizabeth Funmilayo Aransiola, Bamidele Sunday Fakinle, Daniel Olawale Oke, Abiodun John Adewale</i>	
Intra-Datacenter Load Balancing in a Federated Cloud with Throttled Algorithm	1753
<i>Damola Gideon Akinola, Emmanuel Adetiba, Abdultaofeek Abayomi, Uche Nnaji, Surendra Thakur, Sibusiso Moyo</i>	
Hemolytic Anemia Induced by Infectious Agents: Diagnostic and Treatment Approaches	1762
<i>Ayokunle Adekeye, James Ndako, Stephen Owa, Bolape A. Oyekanmi, Ireti Bunmi Ajisafe, Akinyomade O. Owolabi</i>	

A Review on Current Trends of Human Papillomavirus: Need for Prompt Action.....	1770
<i>Ireti B. Ajisafe, Daniel A. Afariogu, Stephen Owa, James A. Ndako, Ayokunle Adekeye, Olumide Oguntimehin, Akinyomade O. Owolabi</i>	
A Decentralised Framework for Issuing Electronic Exam Pass Using Hyperledger Fabric	1776
<i>Oghenetega C. Owivri, Kennedy O. Okokpujie, Samuel Daramola, Anthony U. Adoghe</i>	
Analysis of the Proximate Composition and Phytochemical Profile of Ludwigia Octovalvis as an Alternative Feed Source	1782
<i>Olajide Olasunkanmi Peter, Oludipe Emmanuel Oluleke, Afolabi Yemisi Tokunbo, Durojaiye Kikelomo Abake, Bankole Oladotun Mueez, Alabi Olayinka Olubunmi</i>	
Development of Malware Detection Using Machine Learning	1786
<i>Victoria Oluwaseyi Adedayo-Ajayi, Roseline Oluwaseun Ogundokun, Hakeem Babatunde Akande, Akinbowale Nathaniel Babatunde, Dubem Dubem, Aderemi Emmanuel Tunbosun, Adekunle Kolawole Ojo</i>	
Blockchain in Supply Chains: A Dual Perspective on Transparency and Efficiency	1790
<i>Igbekele Emmanuel, Moses Abiodun, Oluwambo Tolulope Olowe, Amrevuawho Oghenegueke Fortune, Oluwanfifehanmi Oluwabunmi, Akin-Thomas Bishop</i>	
A New Family of Continuous Probability Distribution: Gamma-Exponential Distribution (GED) Theory and Its Properties.....	1796
<i>Olukunle Daniel Ogunwale, Kehinde Peter Ajewole, Korede Peter Olayinka, Ezekiel Olaoluwa Omole, Femi Emmanuel Amoyedo, Oluwadamilare J. Akinremi</i>	
An Enhanced Product Estimator in Two-Stage Sampling for Ancillary Characteristic-Based Population Mean Estimation	1804
<i>Femi Emmanuel Amoyedo, Amos Adedayo Adewara, Ezekiel Olaoluwa Omole, Kehinde Peter Ajewol, Peter Onu</i>	
Block Method Using Equidistant Grid Points for Numerical Integration.....	1812
<i>Richard Olatokunbo Akinola, Oluwadamilola Ololade Olamide, Ezekiel Olaoluwa Omole, Joshua Otonritse Okoro</i>	
Intelligent Sales Forecasting System Using Arima, Sarima, and Xgboost Models	1821
<i>Oladayo G. Atanda, Marion O. Adebisi, David Adewumi, Moses Kazeem Abiodun, Olufemi Olayanju Awodoye, Ayodele A. Adebisi, Morolake Oladayo Lawrence</i>	
Music Genre Classification Using Machine Learning (XGBoost): A Systematic Review	1829
<i>O. Igbekele Emmanuel, Oluwambo Tolulope Olowe, Momoh Bliss</i>	
A Blockchain Framework for Securing Examination Results in Higher Institutions of Learning.....	1836
<i>Taiwo 'yemi Charles, Ambrose A. Azeta</i>	
Emerging Trends in the Application of Machine Learning in Network Intrusion Detection Systems.....	1845
<i>Usman Ahmad Baba, Etemi Joshua Garba, Asabe Sandra Ahmadu</i>	
Stock Price Prediction: A Systematic Review	1851
<i>Igbekele Emmanuel, Olowe Oluwambo Tolulope, Taiwo Omobolanle V</i>	
Enhancing Pre-Tertiary Students Decision-Making Using a Web-Based Admission Recommender System.....	1856
<i>Oluwasefunmi Famodimu, Adeyemi Akande, Kofoworola Fapohunda, Samuel Faluyi, Temitayo Balogun</i>	

The Role of Value Engineering in Sustainable Manufacturing Scheme: A Critical Review	1862
<i>Opeyemi Akerekan, Samson O. Ongbali, Enesi S. Yekini, Sunday A. Afolalu, Elizabeth Amuta</i>	
Evaluation of Thermal Properties of Cassava Peel Ash-Incorporated Concrete.....	1872
<i>Joseph Adeniyi. Ajayi, Abu James. Gana, Oluwaseun A. Akinmusere, Adanikin Ariyo, Opeyemi Olajide, Oluwasegun J. Aladegboye</i>	
Actinomycetes as Agents of Nanobioremediation: A Minireview	1877
<i>Bolanle Adenike Akinsanola, Damilare Cornelius Olawoyin, Olusoji Olusegun Adebisi, Omorefosa Osarenkhoe Osemwegie</i>	
Sentiment Analysis and Machine Learning Approaches in Covid-19 Tweets	1885
<i>Ibidun Christiana Obagbuwa, Onil Chibaya</i>	
Microstructural Analysis of Blended Guinea-Corn Stalk and Saw-Dust Ash for Cement Mixture of Interlocking Concrete Block.....	1892
<i>Sunday Adetola, Ayodele Oyejide, Elijah Emmanuel, Segun Adejinle, Johnson Aiyegbabe</i>	
Comparative Analysis of Feature Selection Methods for Software Bug Classification	1897
<i>Bajeh Amos Orenyi, Olowe Oluwambo Tolulope, Asani Emmanuel Tobi</i>	
Design and Implementation of a Smart Restaurant Menu Ordering System Using a WiFi Module and RFID Technology	1905
<i>Peter Anuoluwapo Gbadega, Yanxia Sun, Ntombenhle Mazibuko, Kayode Timothy Akindeji</i>	
Design and Implementation of a GSM-Based Remote Control for a Smart Home Energy Management System with Surge Protection.....	1913
<i>Peter Anuoluwapo Gbadega, Yanxia Sun, Ntombenhle Mazibuko, Kayode Timothy Akindeji</i>	
A Review on the Application of Machine Learning Techniques for Predictions of Performance Measures of Queue Systems.....	1920
<i>Oghenekevwe R. Ajewole, Austin A. Osagiede, Joshua O. Okoro</i>	
Performance and Applications of Wood-Based Fiber Reinforced Concrete: A Comprehensive Review.....	1927
<i>Precious O. Ajibola, Abu J. Gana, Olumoyewa D. Atoyebi</i>	
Performance Evaluation of Cryogenic Cooling Effect in a Solar-Powered Peltier-Type Drug Storage Device for Remote Application	1934
<i>Ebenezer Olubunmi Ige, David Ikedi Jacob, Simeon Ayodele Babalola, Oluwaseun Kayode Ajayi, Ayodele James Oyejide</i>	
Human Reliability in Complex Systems: A Profound Investigation into the Unpredictable Element.....	1940
<i>Elewa Remilekun Racheal, Adeniran Afolalu, Adediran Adeolu A, Onu Peter, Sunday L. Lawal, Stella I. Monye</i>	
Growth Performance Study of Weaned Rabbits Fed a Dietary Inclusion of Sweet Potato Peel-Cassava Leaf Mix Meal.....	1952
<i>Rasaq Animashahun, Precious Oluwafemi, Olayinka Alabi, Peter Olajide, Abiodun Idowu</i>	
Evaluation of Alpha Amylase Isolated from Bacillus Subtilis Enhanced Fermented Underutilized Seeds of Chrysophyllum Albidum Linn	1957
<i>Oluwatofunmi E. Odutayo, Ayodamola E. Oladipo, Adekemi G. Oluwafemi, Marvellous A. Acho</i>	

An Artificial Intelligence Framework for Project Planning and Control Using Decision Tree Analysis and Artificial Neural Network	1962
<i>Olusina Temidayo Akinyokun, Morakinyo Kehinde Onifade, Michael Abejide Adegoke</i>	
A Classification and Regression Tree Based Predictive System for Preventing Stroke	1972
<i>Abiodun Oguntimilehin, Kehinde A. Olatunji, Ekomobong S. Akpan, Bukola Badeji-Ajisafe, Toyin Okebule, Stephen E. Obamiyi, Christianah O. Akinduyite, Gbemisola O. Babalola, Oluwafemi Sanya</i>	
Digital Twin Modeling for Smart Car Battery	1978
<i>Kazeem Aderemi Bello, Rotimi A. Ibikunle, Temitayo Mufutau Azeez, Omojola Awogbemi, Sobowale Aladejobi Adedayo, Samuel Aliyu, Adeolu Adesoji Adediran, Olalekan Joseph Ogunniyi</i>	
Exploring Nuclear Energy to Meet Sustainable Development Goals.....	1987
<i>Omojola Awogbemi, Adeolu Adesoji Adediran, Remilekun L. Elewa, Kazeem Aderemi Bello, Rotimi A. Ibikunle, Francis Olusesi Borokinni, Sobowale Aladejobi Adedayo, Peter P. Ikubanni</i>	
The Role of Additives in Enhancing the Tribological Properties of Lubricants.....	1996
<i>Ajisehiri Emmanuel, Peter Onu, Adediran Adeolu Adesoji, Afolalu Adediran, Olalekan Joseph Ogunniyi, Sunday L. Lawal, Stella I. Monye</i>	
Comparative Simulation of TCP and TLS Protocols in SDN Network.....	2007
<i>John S. Wejin, Adewale A. Ajao, Kennedy O. Okokpujie</i>	
Sorption Isotherm and Thermodynamic Properties of High-Quality Cassava Flour	2014
<i>V. J Bamisaye, Y. O Olasebikan, F. E Ajayi</i>	
Comparative Review of Vulnerability Analysis Tools.....	2019
<i>Isaac Odun-Ayo, Odede Blessing, Isaac Martins, Emmanuel Owoka, Timileyin Owoseni, Emmanuel Omonedo</i>	
A Model-Based Design of an Electric Kettle for Nigerian Households	2025
<i>Nwachukwu Praise, Ibikunle Rotimi, Adekunle Adeleke, Peter Ikubanni, Jesuloluwa Seun, Onyemachukwu Chidindu</i>	
Tribological Analysis of Advanced Lubricants in Automotive Engines.....	2031
<i>Adediran Adeolu Adesoji, Peter Onu, Sunday A. Afolalu, Kazeem Aderemi Bello, Sunday L. Lawal, Stella I. Monye, Olalekan Joseph Ogunniyi</i>	
An Outlook on Sustainable Business Practices Through Virtual Reality Marketing.....	2042
<i>T Rina Daline, Joby Thomas</i>	
Uterine Fibroid: Risk Factors and Therapeutic Interventions.....	2048
<i>Charles Nwonuma, Emenike Irokanulo, Faith Bamgboye, Ayokunmi Akinduko, Funmilayo Okeniyi, Christian Eigbe</i>	
Application of Deep Learning Algorithms on Protein Function Prediction: A Systematic Review	2057
<i>Mercy Akinwale, Jerry Emmanuel, Itunuoluwa Isewon, Jelili Oyelade</i>	
A Model of a Single Numerical Method for the Integration of Multi-Order Ordinary Differential Equations.....	2065
<i>David Adeleke Matthew, Emmanuel Oluseye Adeyefa, Ezekiel Olaoluwa Omole, Kehinde Peter Ajewole</i>	

A Multilayer Perceptron Based Mobile Diagnosis System for Malaria Fever.....	2070
<i>Abiodun Oguntimilehin, Olutabo Toluse Berida, Oluwatoyin B. Abiola, Bukola Badeji-Ajisafe, Toyin Okebule, Christianah O. Akinduyite, Stephen E. Obamiyi, Gbemisola O. Babalola, Oluwafemi Sanya</i>	
Integration of Deep Learning Techniques in Mechatronic Devices and Systems: Advancement, Challenges, and Opportunities.....	2078
<i>Oluwadare Adebisi, Abimbola Afolayan, Idowu Ayoade, Philip Adejumobi, Israel Adejumobi</i>	
Electricity Theft Identification and Prevention System for Home Use	2084
<i>Bukola Hannah Akinwole, Lateef Adesola Akinyemi</i>	
Radiomics and Machine Learning Application in Prostate Cancer: A Review.....	2090
<i>Promise Onyemaechi, Marion O. Adebisi</i>	
Mineral Potential of Parts of Southwestern Nigeria from Magnetic and Radiometric Methods	2100
<i>Leke Sunday Adebisi, Sesan Cornelius Falade, Kehinde Oladele Dopamu, Esther Adetola Alejollowo</i>	
Simulating Human Driving Expertise in Autonomous Campus Shuttle for Enhanced Navigation Using Behavioral Cloning.....	2103
<i>Olugbenga A. Aderoba, Efeoghene Isaiah Omonigho, Khumbulani Mpofu, Emmanuel Ajisegiri, Adeolu A. Adediran, Roseline Oluwaseun Ogundokun</i>	
A Holistic Perspective on Next-Generation Wireless Networks: Harnessing Federated Learning for Computational Modelling.....	2111
<i>Lateef Adesola Akinyemi, Mbuyu Sumbwanyambe, Ernest Mnkandla</i>	
Experimental and Statistical Analysis of Internally Cured Concrete Pavement Under Loading.....	2117
<i>Abu James. Gana, Joseph A. Ajayi, Adanikin Ariyo, Victor Adewale Owoeye, Opeyemi Olajide, Oluwasegun Aladegboye</i>	
A Network Intrusion Detection Model for IoT Networks.....	2123
<i>Stephen E. Obamiyi, Adeola D. Adebisi, Abiodun Oguntimilehin, Bukola Badeji-Ajisafe, Toyin Okebule, Oluwatoyin B. Abiola, Christianah O. Akinduyite, Gbemisola O. Babalola, Adebisola M. Tope-Oke</i>	
A Review of Intelligent Manufacturing Systems: A Future Guide to Exploring Industry 4.0 Technologies.....	2131
<i>Kazeem Aderemi Bello, Samuel Solomon Salifu, Remilekun L. Elewa, Kabiru Alani Olaiya, Ilesanmi Daniyan, Ajisegiri Emmanuel, Joseph Olamilekan Onabanjo, Adeolu Adesoji Adediran, Olalekan Joseph Oggunniyi, Samson Seun Oyejide, Rotimi A. Ibikunle, Samuel Aliyu</i>	
Evaluation of Users' Satisfaction with Passive Design Strategies in Selected Large-Sized Churches Within Lagos-Ogun Megacity, Nigeria	2138
<i>Isidore C. Ezema, Praise A. Ajanaku</i>	
Application of Machine Learning and Remote Sensing Techniques for Forecasting of Rainfall in Nigeria: From the Perspective of Improved Accuracy	2148
<i>Lateef Adesola Akinyemi, Peace Precious Aielumoh, Olamide Peter Oshinuga, Ernest Mnkandla, Mbuyu Sumbwanyambe, Oluwagbemiga Omotayo Shoewu</i>	
Optimizing Network Management and Virtualization Using Machine Learning Approach: Network Slice Prediction.....	2154
<i>Lateef Adesola Akinyemi, Olamide Peter Oshinuga, Sunday Oladayo Oladejo, Stephen Obono Ekwe, Mbuyu Sumbwanyambe, Ernest Mnkandla, Oluwagbemiga Omotayo Shoewu</i>	

Welding Heat Input and Post-Weld Heat Treatment Effects on Joint Material Mixing and Weld Integrity of Friction Stir Welded Dissimilar Aerospace Alloys	2160
<i>Olatunji P Abolusoro, Moshibudi Caroline Khoathane, Washington Mhike, Omoniyi Peter, Ikubanni Peter, Ogunsemi Bamidele, Adamu M Orak, Akinlabi T Esther</i>	
The Role of Value Engineering in Product Design and Profitability Improvement in Manufacturing Setting - A Review.....	2168
<i>Samson O. Ongbali, Osise O. Okwilagwe, Enesi S. Yekini, Sunday A. Afolalu, Tobi Somefun</i>	
A Systematic Review of Social Engineering Attacks & Techniques: The Past, Present, and Future.....	2174
<i>Favour Femi-Oyewole, Victor Osamor, Daniel Okunbor</i>	
An Effective Low-Cost laboratory-Scale Rotarod Device for Resource-Constrained Research Environment	2186
<i>Ayodele Oyejide, Jesulolu Zaccheus, Hannah Ugo, Bola Oni, Ayoade Adeyemi, Fransics Chukwudi, Ebenezer Atoyebi, Gift-Oheji Okpale</i>	
Green Technologies for the Remediation of Heavy Metals in the Environment	2192
<i>Adejumoke Inyinbor, David Ogidigben, Deborah Bankole, Oluwasogo Dada</i>	
Nigeria's Fossil Fuel Energy Consumption-GDP Relation and Its Effect on National HDI:2005-2022	2198
<i>Oluremi Oyejide, Goodnews Akindele, Oluwakemi Efemena</i>	
Enriched Ratio-Cum-Product Estimator Utilizing Ancillary Attribute for Double Sampling	2204
<i>Femi Emmanuel Amoyedo, Akinremi O. Joseph, Timilehim Shaba Gideon, Joshua Otonritse Okoro</i>	
Investigation of the Mechanical Properties of Sisal Fiber Reinforced Pervious Concrete	2211
<i>Blessing Dorothy Agboola, Esosa Joy Onabote, Chibuikwe David Nwauju, Solomon O Braimoh, Praise Oladapo Ejigboye, Solomon O. Ajamu, Abu James Gana</i>	
Tackling the Moving Mutant Target: Taxifolin Derivatives as Novel Putative E571K Exportin-1 Inhibitors for KRAS-Mutant Lung Adenocarcinoma	2221
<i>Temidayo Adigun, Omokolade Alejowo, Faoziyat Sulaiman, Itunu Ayomikun Oluwadare, Olalekan Bukunmi Ogunro, Ayokunmi Akinduko, Ikponmwosa Evbuomwan, Adebimpe Agunlejika, Charles Nwonuma, Damilare Rotimi</i>	
Puerarin: A Stimulator of NRF-2 Against Oxidative Damage in Diseases	2236
<i>Omokolade Alejowo, Gloria Austin, Charles Nwonuma, Temidayo Adigun, Babasoji Omoniwa, Oluwafemi Adekemi</i>	
Phishing Attacks and Detection Techniques: A Systematic Review	2243
<i>Ruth Korede Ayeni, Ayodele Ariyo Adebisi, Julius Olatunji Okesola, Enmanuel Igbekele</i>	
Data Preprocessing and Machine Learning Modelling for Battery Electrolyte Discovery.....	2260
<i>Stanley Aimhanesi Eshiemogie, Ritesh Kumar, Chibueze V. Amanchukwu</i>	
Sustainable Consumption Patterns, Non-Biodegradable Wastes Reduction and Environmental Protection in Kwara State, Nigeria.....	2265
<i>Precious Olubunmi Gabriel, Tawakalitu Bola Yusuf, Chinyere Linda Omekara, Oluwaseun Joshua Ishola, Adewale Matthew Ogungbenro, Priscilla Obiribe-Addo</i>	
A Review on Data Analytical Techniques for Predicting HIV Treatment Outcome Using Selected Biomarkers	2275
<i>Joke Oluwatimilehin Adeyemo, Prabhakar Rontala Subramaniam</i>	

A Promising Renewable Source to Help Nigeria Meet Its Energy Demand.....	2284
<i>Kazeem Aderemi Bello, Godson Thankgod Nwagwu, Ajisegiri Emmanuel, Benedict Temitope Amoko, Adeolu Adesoji Adediran, Remilekun . L. Elewa, Wole John Ariyo, Nwonu Orji Ajogu, Rotimi A. Ibikunle, Adefemi Adeodu</i>	
Enhanced Lane Detection for Autonomous Campus Shuttles Using Hybrid Computer Vision Techniques.....	2294
<i>Olugbenga Adegbemisola Aderoba, Gideon Onyinyechi Ekezie, Khumbulani Mpofo, Emmanuel Ajisegiri, Adeolu A. Adediran, Ilesanmi Afolabi Daniyan, Roseline Oluwaseun Ogundokun</i>	
Strength Reliability Assessment of Glass-Aluminium Shavings Cement-Bonded Boards.....	2301
<i>Atoyebi Olumoyewa D., Ayo Emmanuel K., Oluwabiyi Obed A., Ibuje Ufuoma N.</i>	
Factors Influencing Human Resource Outsourcing by Small and Medium-Scaled Enterprises in Nigeria.....	2308
<i>Ademola Afolayan, Adebajji A. W. Ayeni, Gareth R. T. White, Ademola E. Adeleke</i>	
Global Health Diplomacy and Its Implications on the Availability and Acceptance of COVID Vaccines in Nigeria.....	2316
<i>Henry Nweke-Love, Chidera Eze, Joy Oladapo, Michael Aleyomi</i>	
Science, Technology, Engineering and Mathematics (STEM) Education and the Influence of Industry 4.0.....	2330
<i>Peter Onu, Omolayo M. Ikumapayi, Ezekiel Olaoluwa Omole, Femi Emmanuel Amoyedo, Kehinde Peter Ajewole, Aliyu Samuel Jacob, Oluwole O. Akiyode, Charles Mbohwa</i>	
Role of Food Habit and Enteric Microbes in the Development of Colon Cancer	2338
<i>Oluwatobi Victoria Obayomi, Abiola Folakemi Olaniran, Stephen Olugbemiga Owa</i>	
Coefficient Bounds for a New Class of Univalent Function by Chebyshev Polynomial.....	2345
<i>Esther O. Davids, Ogbazi Gabriella, Timilehin Gideon Shaba</i>	
Potential of Cymbopogon Citratus in Food Preservative	2350
<i>Yetunde Mary Iranloye, Abiola Folakemi Olaniran, Adeyemi Ayotunde Adeyanju, Jesusetemi Adenike Adeyera, Oluwakemi Christianah Erinle, Opeyemi Racheal Faloye</i>	
COVID-19 Disease Prediction System Using Genetic Algorithm (Case Study: Nigeria).....	2356
<i>Oladayo G. Atanda, Marion O. Adebisi, Oladunjoye O. Omolaja, Kayode Akindeji, Ayodele A. Adebisi</i>	
Quartic Autocatalytic Reaction in a Bioconvective Flow of a Stratified EHMD Casson Fluid Conveying Nanoparticles Over a Surface with Variable Thickness: Legendre Based Collocation Approach	2363
<i>Tosin Oreyeni, Adebowale Martins Obalalu, Amos Oladele Popoola, Ezekiel Olaoluwa Omole, Basma Souayah, Kehinde Peter Ajewole, Femi Emmanuel Amoyedo, Oluwadamilare Joseph Akinremi</i>	
Convergence and Stability Analysis of Finite Difference Methods, Caputo Derivatives, and Collocation Methods Applied to Space Fractional Diffusion Equations	2377
<i>Ajimoto F. Adebisi, Gbolahan M. Gbolagade, Muideen O. Ogunniran, Ezekiel Olaoluwa Omole, Femi Emmanuel Amoyedo, Kehinde Peter Ajewole</i>	
Hybrid Predictors Methods Containing Third Derivatives for Solving Stiff and Non-Stiff First-Order Differential Equations	2390
<i>Lawrence Osa Adoghe, Ezekiel Olaoluwa Omole, Luke Azeta Ukpebor, Ola Olayemi Olanegan, Abraham Femi Olanrewaju, Samuel Olawale Oladimeji</i>	

On Linear Modeling of BlackPod Disease in Ibadan (A Forward Stepwise Selection Approach)	2402
<i>Latifat A. Abimbola, Oladapo M. Oladoja, Taiwo M. Adegoke, Oyindamola R. Oyebanjo</i>	
MobileDNN: Leveraging the Potential of Hybrid MobileNetV2-DNN for Advanced Image Analysis	2408
<i>Roseline Oluwaseun Ogundokun, Rytis Maskeliunas, Robertas Damaševicius, Marion Olubunmi Adebisi</i>	
Zero-Stable Multistep Formulas with Equally Spaced Off-Grid Points for Second-Order Differential Equations: Derivation and Analysis	2413
<i>Ezekiel Olaoluwa Omole, Ola Olayemi Olanegan, Adefunke Bosede Familua, Peter Onu, Femi Emmanuel Amoyedo, Homan Emadifar, Laith Abualigah, Amrevuawho O. Fortune</i>	
Solving Ordinary Differential Equations of First and Second Order Using a Single Numerical Algorithm with Four Equidistant Points	2420
<i>Bankola Gbenga Ogunware, Ezekiel Olaoluwa Omole, Adefunke Bosede Familua, Peter Onu, Ridwanulahi Iyanda Abdlganiy, Femi Emmanuel Amoyedo, Kehinde Peter Ajewole, Patrick Moses Edoma</i>	
Climate Change Education (CCE) in Informal Workplaces: Unearthing Possibilities and Limitations for SDG 13 Actualization	2427
<i>Folakemi Ohunakin, Edidiong Samuel Akpabio, Chinonye Frances Kamsi Dike, Marion Oluwabunmi Adebisi, Andy Enahoro Dickson, Ogheneguae Fortune Amrevuawho, Raymond Aleoghena, Moses Kazeem Abiodun</i>	
One-Third Hybrid Algorithm for Numerical Solution of First-Order Models Problems with Initial Condition	2432
<i>Ezekiel Olaoluwa Omole, John Kehinde Uwaifor, Atabo Victor Oboni, Friday O. Obarhua, Kehinde Peter Ajewole, Peter Onu, Rotimi Oluwafemi Folaranmi, Mathew O. Oluwayemi, Femi Emmanuel Amoyedo, Grace Idowu Olaleru</i>	
Anti-Plasmodial Potential of Chromolena. Odorata Aqueous Leaf Extract: An Animal-Based Study	2444
<i>Tobiloba Christiana Maduakolam-Aniobi, Olarewaju Michael Oluba, Oluyomi Stephen Adeyemi</i>	
Enhancing the Absorption of Iron and Zinc in Plant-Based Foods with Citric Acid and Ascorbic Acid: A Review	2450
<i>Adeyemi Ayotunde Adeyanju, Favour Ebehital Uduehi, Yetunde Mary Iranloye</i>	
Towards Reconfigurable Production Systems and Technologies in the Manufacturing Industries: A Framework	2456
<i>Ilesanmi Daniyan, Palesa Success Sibanda, Adeolu A. Adediran, Olugbenga Aderoba</i>	
Application of Machine Learning Models for Predicting Students' Performance in Mathematics: A K-Fold Approach	2462
<i>Felix Ale, Ikpaye D. Ikpaye, Ilesanmi Danyan, Goodness O. Opatye, Gregory Onwodi, Olufemi O. Agboola</i>	
Detection of Phishing Emails Using Support Vector Classifier and Gaussian Latent Variable Model	2471
<i>Emmanuel Oluwatobi Asani, Victoria Oluwaseyi Adedayo-Ajayi, Aderemi Emmanuel Tunbosun, Nmesoma Enumah, Dayo Reuben Aremu</i>	
Exponential-Exponential-Weibull Distribution (EEWD) Modeling: Theory, Characteristics, and Use on Actual Data	2476
<i>Kehinde Peter Ajewole, Olukunle Daniel Ogunwale, Fatai Alani Osunronbi, Peter Onu, Ezekiel Olaoluwa Omole, Femi Emmanuel Amoyedo</i>	

Bridging the Artificial Intelligence Knowledge and Skill Gaps in Africa: A Case of the 3rd Google Tensorflow Bootcamp and FEDGEN Mini-Workshop.....	2485
<i>Emmanuel Adetiba, John S. Wejin, Oluwadamilola Oshin, Ayodele H. Ifijeh, Comfort Lawal, Surendra Colin Thakur, Ayokunle A. Awelewa, Raymond Jules Kala, Priscilla O. Ajayi, Matthew B. Akanle, Faith O. Sweetwiliams, Uche Nnaji, Emmanuel Owolabi, Olabode Idowu-Bismark, Gabriel Sobola</i>	
Quality Assurance and Reliability: A Rigorous Investigation of Theoretical Frameworks and Practical Applications.....	2492
<i>Elewa Remilekun Racheal, Adeolu A Adediran, Sunday A. Afolalu, Peter Onu, Stella I. Monye, Sunday L. Lawal, Olalekan Joseph Ogunniyi</i>	
Predictive Modelling of Renewable Energy Sources: A Comprehensive Analysis Using Gradient Boosted Decision Trees.....	2501
<i>Xander K. Abbey, Abayomi A. Adebisi</i>	
Optimizing 5G IoT Connectivity for Path Loss Reduction Through Ant Colony Optimization and Support Vector Regression.....	2508
<i>Anthony Imianvan, Samuel Robinson</i>	
Growth and Secondary Metabolite Profiles of Vernonia Amygdalina (Del.) Subjected to Cadmium and Drought Stress.....	2518
<i>Olorunyomi Zebon, Ayokunmi Akinduko, Charles Nwonuma, Salam Quadri, Babatunde Lawal, Faith Bamgboye, Fatima Olokodana, Anthony Ojekale</i>	
Credit Scoring Prediction Using Boruta Feature Selection with Different Sampling Techniques.....	2525
<i>Muti Ganiyu, Olabisi E Johnson, Olanrewaju V. Johnson</i>	
Bibliographic Exploration of Application of Machine Learning and Artificial Intelligence in Solar Energy.....	2534
<i>Samuel-Soma M. Ajibade, Faizah Mohammed Bashir, Yakubu Aminu Dodo, Oluwadare Joshua Oyeboode, Rex V. Culpable, Limic M. De La Calzada, Anthonia Oluwatosin Adediran, Temiloluwa Iyanuoluwa Ajibade</i>	
Embedded Metacognitive Learning to Enhance the Educational Socioscientific Decision-Making of Science Students'.....	2539
<i>Samuel-Soma M. Ajibade, Severina P. Velos, Jeem Clyde C. Baird, Arnulf Jairo P. Velos, Mary Angelie P. Velos, Oluwadare Joshua Oyeboode</i>	
Deep Reinforcement Learning Applications for Coexistence in Television Whitespace: A Mini-Review.....	2545
<i>Udeme Ukpong, Olabode Idowu-Bismark, Emmanuel Adetiba, Oluwatobi Dare, Emmanuel Owolabi, Raymond Jules Kala</i>	
Synthesis and Characterisation of Amino Functionalised Mesoporous Silica-Based Nanomaterials for Isoniazid Drug Delivery.....	2554
<i>Josephine Oluwagbemisola Tella, Kolawole Oluseyi Ajanaku, Joseph Adeyemi Adekoya, Rajkumar Banerjee, Chitta Ranjan Patra, Srinivas Pavuluri, Bojja Sreedhar</i>	
A Framework for Yoruba Sentiment Lexicon Disambiguation.....	2564
<i>Adedapo Bolaji Adeniji, Taiwo Kolajo, Joshua Babatunde Agbogun</i>	
Exploring the Dynamics of Macro-Economic Factors on Financial Stability of Listed Grocery Stores in Developing African Economies.....	2570
<i>Zwelihle Wiseman Nzuzo, Oloyede Obagbuwa, Rajendra Rajaram</i>	

The Role of Robotics and Automation in Engineering for the Digital Economy: A Mini Review	2577
<i>Joshua Ade-Omowaye, Adeolu Adediran, Ajisegiri Emmanuel, Onu Peter</i>	
Innovative Technologies for Decontamination of Foods	2584
<i>Abiola Folakemi Olaniran, May Enekole Alike-Peter, Oluwakemi Christianah Erinle, Faith Oluwatoyosi Agaja, Opeyemi Racheal Faloye</i>	
Impacts of Recent Techniques in "Tofu" Production	2590
<i>Abiola Folakemi Olaniran, Faith Oluwatoyosi Agaja, Seno Isidore Ebong</i>	
Complexity Analysis of Recursive Algorithms with and Without Memoization	2597
<i>O. A Gbadamosi, A. E Okeyinka, I. Abdullahi</i>	
Additive Manufacturing for Sustainable Production: A Survey on Titanium Alloys	2600
<i>Peter Onu, Shedrach Musa Gad, Adeolu A. Adediran, Charles Mbohwa</i>	
Adsorption Isotherm, Kinetics and Thermodynamics Studies on Chloroquine Sequestration Using Coconut Shell Activated Carbon	2612
<i>Toyin A. Oreofe, Adejumoke A. Inyinbor, Olugbenga S. Bello, Oladipupo O. Ogunleye</i>	
Heart Disease Diagnosis by Machine Learning Techniques	2618
<i>Tashi Lhamo, Geeta Arora, Homan Emadifar, Ezekiel Olaoluwa Omole, Laith Abualigah, Peter Onu, Grace Idowu Olaleru, Ade-Omowaye Joshua</i>	
Effects of Weather Parameters on Signal Attenuation: A Brief Review	2625
<i>Patrick Emmanuel Afolabi, Stephen Oluwole Ikubanni, Babatunde Olufemi Adebessin, Shola John Adebisi, Elizabeth Folake Adeleke</i>	
A Review on Equatorial Ionospheric Irregularities	2630
<i>Elizabeth F. Adeleke, Shola J. Adebisi, Stephen Ikubanni, Patrick E. Afolabi</i>	
Human Factors in Asset Integrity: Analyzing the Role of Human Error in Oil and Gas Incidents	2639
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Lifecycle Management of Oil and Gas Assets: Challenges and Best Practices in the Upstream and Downstream Sectors	2647
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Emergency Response Planning and Its Role in Safeguarding Asset Integrity in Oil and Gas Operations	2654
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Application of Blockchain Technology for Data Privacy and Secured Sharing in Electronic Medical Records: A Systematic Literature Review	2661
<i>Victor Chukwudi Osamor, Imuetinyan Boma Edosomwan, Osofuye Odunayo Damilola</i>	
Adsorption Operational Characteristics for Malachite Green Uptake onto Rice Husk Modified by Phosphoric Acid (RH-H ₃ PO ₄)	2673
<i>Blessing Enyojo Tokula, Adewumi Oluwasogo Dada, Adejumoke A. Inyinbor, Kolawole O. Ajanaku, Folahan A. Adekola</i>	
An Enhanced Stratified Ratio and Product Estimators in Double Sampling Using Auxiliary Variable	2677
<i>Temitope Afolayan, Amos Adedayo Adewara, Femi Emmanuel Amoyedo, Olaoluwa E. Omole, Peter Onu, Kehinde Peter Ajewole</i>	

Environmental Accounting and Performance of Listed Oil and Gas Firms in Nigeria.....	2682
<i>Eke Onyekachi Abaa, Joseph Madugba Ugochukwu, Ben-Caleb Egbide, Falaye Joseph, James Onyebuchi Dokai, Ekeanem Vivian, Ben-Caleb Jane Ogochukwu</i>	
Application of Bioinformatics in Animal Breeding and Genetics: A Review	2692
<i>Oluwaseyi Modupe Adebayo, Mustapha Ayo Popoola, Doorumun Jacob Kuusu, Roseline Ruth Fanwo, Ayoola John Shoyombo, Ebiogeh Philip Ndiomu, Jubril A Egbeyan, Ake A. Moses</i>	
Computational Approaches in Livestock Breeding: A Review.....	2699
<i>Ayoola John Shoyombo, Mustapha Ayo Popoola, Doorumun Jacob Kuusu, Lasisi Jatto Yisah, Oluwaseyi Modupe Adebayo, Hosea Yakubu, Ebiogeh Philip Ndiomu, Ake A. Moses</i>	
Improved Ratio Estimator Under Stratified Simple Random Sampling Using Auxiliary Variable	2704
<i>Olatunji Muhammad Oladimeji, Amos Adedayo Adewara, Femi Emmanuel Amoyedo, Ezekiel. Olaoluwa Omole, Peter Onu, Kehinde Peter Ajewole</i>	
Random Forest-Based Approach for Integrating Blood Profile in Metastatic Breast Cancer Classification	2709
<i>Marion O. Adebisi, Ugwu Chukwuebuka J., Deborah Olaniyan, Ayodele A. Adebisi, Julius Olaniyan, Oghenegueke Fortune Amrevuawho</i>	
Voicordit: Voice-To-Text Mobile Application for Daily Expenditure Tracking System Using Deep Learning	2715
<i>Marion O. Adebisi, Eseosa D. Obadiaru, Oluwatosin S Ajigbon, Ohunenese Lekan Leke, Deborah Olaniyan, Julius Olaniyan, Ayodele A. Adebisi</i>	
Start-Up Capital Estimation and Profitability Prediction for E-Commerce Start-Ups Using Machine Learning	2722
<i>Marion O. Adebisi, Stephen A. Ajayi, Deborah Olaniyan, Julius Olaniyan, Dada Kikelomo</i>	
Internet of Things (IoT) and Blockchain for Sustainable Production in Lean Manufacturing: A Survey of the Implication of Industry 4.0.....	2729
<i>Peter Onu, Onu Christian, Ade-Omowaye Joshua, Charles Mbohwa</i>	
Synthetic Routes of Green Nano Structured Photocatalysts: A Mini Review	2735
<i>Ajanaku Christiana Oluwatoyin, Dada Adewumi Oluwasogo, Tokula Blessing Enejo, Oladokun Oluwaseyi, Dada Elizabeth Fehintoluwa, Dada Olarewaju Adewumi, Adekola Folahan A</i>	
Development and Implementation of a Top-Order Multi-Step Block Method for Boundary Value Problems: The Advancement of Numerical Accuracy	2740
<i>Ezekiel Olaoluwa Omole, Emmanuel Olushey Adeyefa, Homan Emadifar, Laith Abualigah, Peter Onu, Kehinde Peter Ajewole, Toluwalase Olutunde Adeniji, Joshua Otonritse Okoro, Femi Emmanuel Amoyedo</i>	
Insights into Numerical Solution of First-Order Growth Models Using Hybrid Block Methods with Four Collocation Points.....	2748
<i>John Kehinde Uwaifor, Ezekiel Olaoluwa Omole, Peter Onu, Laith Abualigah, Homan Emadifar, Samuel Olawale Oladimeji</i>	
Systemic Lupus Erythematosus (SLE) Detection Using Deep Learning	2762
<i>Marion O. Adebisi, Obueh Destiny, Deborah Olaniyan, Julius Olaniyan, Dada Oluwatomi</i>	
Assessment of Particulate Matter Toxicity Level in Major Bus Stops in a University Community	2770
<i>Daniel Olawale Oke, Habbibat Moronike Umoru, Jacob Ademola Sonibare, Tunbosun Siji Abayomi, David Olusegun Kolawole, Olutayo Victor Okunola</i>	

A Smart and Automated Waste Management System.....	2778
<i>Isaac Onimisi Yusuf, Folashade Ariba, John Onyemenam, Bankole Adebajani, Banji Adedayo, Adedotun Ijagbemi, Ibiloye Olaoluwa Samuel</i>	
Inhibition Potential of Moringa Root Extract and Ozonized Water on Biofilm Growth in Clogged Drip Irrigation System.....	2784
<i>Davids Olorunghon Raphael, Iliyah Dandare Akande, Matthew Folorunsho Amodu, Smart Idumoro Samuel, William. Sunday Olotu</i>	
Need for Network Reconfiguration in Nigerian Distribution Systems: A Review	2789
<i>Samuel Onodjohwo, Bankole Adebajani, Folashade Ariba, Emmanuel Taiwo Fasina, Isaac Onimisi Yusuf, Adenike Josephine</i>	
A Review of Wind Energy and Its Potential in Nigeria.....	2795
<i>Olalekan J. Ogunniyi, Joshua A. Ade-Omowaye, Taiwo O. Oni, Peter P. Ikubanni, Emmanuel A. Ajisegiri, Rotimi A. Ibikunle, Timothy A. Adekanye, Kazeem A. Bello</i>	
Aquifer Characteristics and Protectivity Studies in Parts of Northern Bida Basin North Central Nigeria, Using Geoelectric Data.....	2801
<i>Esther A. Alejowo, Olusegun O. Ige</i>	
Spectral Analysis of Aeromagnetic Data Using Fourier Transform for Geothermal Energy Potential Assessment-Case Study of Niger Delta, Southern Nigeria.....	2808
<i>Oluwafemi Dapo Olasehinde, David A. Olasehinde, Olusegun K. Abass, Oluwaseun Opeyemi Asani, Jeremiah Olalowa Ibiwoye, Victor Ugochukwu</i>	
Physico-Mechanical Properties of Innovative Staking Composite from Plastic Waste Granule (PWS) and Palm Kernel Shell (PKS)	2817
<i>Elijah Aina Alhassan, Timothy Adesoye Adekanye, Abiodun Afolabi Okunola, Oluwasegun Temidayo Owoyomi, John Abiola Asaleye, Adewumi Samuel Alake</i>	
Deciphering Disinformation: Strategies for Identifying and Addressing Fake News in Today's Information Landscape.....	2822
<i>Oluwagbohunmi Osadola, Elizabeth Amuta, Comfort Somefun, Tobiloba Somefun, Samson Ongbali, Joseph Mene</i>	
Chi-Square and Cuckoo Search Based Feature Selection for Heart Disease Prediction	2829
<i>Bolanle Adejumo Elizabeth, Ali Muhammad Usman, Ahmad Mohdaziz Hussein, Wallace Ossai Ebinum, Timothy Umar Maigari, Ali Usman Abdullahi, Jalo Abubakar Ibrahim, Mohammed Joda Usman, Jacob Philips, Muhammad Dawaki</i>	
An Improved Tomato Ripeness Detection and Sorting System.....	2835
<i>Monday Abutu Idakwo, Osaji Emmanuel, Rakiya Abdullahi Usman, Ramat Ubimago Yusufu, Olowofusi Eniola Ebenezer, Adebisi Busayo, Obot Ubong Sunday, Obari Johson</i>	
Enhancing Customer Experience Through E-Commerce Review Analysis: Using Topic Modeling and Rule Induction for Understanding User Perception	2840
<i>Afolabi Ibukun Tolulope, Timileyin Owoseni</i>	
Homomorphic Encryption for Genomics Data Storage on a Federated Cloud: A Mini Review	2851
<i>Philip Ewejobi, Kennedy Okokpujie, Emmanuel Adetiba, Babatunde Alao</i>	
Automated Solar Powered Irrigation System for Varied Crops.....	2863
<i>Florence N. Ikechiamaka, Sadiq S. Musa, Chidozie N. Okpala</i>	

Leveraging Information and Communication Technology (ICT) to Combat Corruption: A Systematic Review	2874
<i>Olowe Oluwambo Tolulope, Ayodele Ariyo Adebisi, Kayode Akindeji</i>	
Friction and Wear Characteristics of Nanostructured Coatings in Tribological Systems	2883
<i>Faith Ademuyiwa, Sunday Adeniran Afolalu, Stella Isioma Monye, Enesi Salawu, Sunday Lukeman Lawal, Samson O. Ongbali</i>	
Lubrication Challenges in Micro-Electro-Mechanical Systems (Mems).....	2893
<i>Faith Ademuyiwa, Sunday Adeniran Afolalu, Stella Isioma Monye, Enesi Salawu, Sunday Lukeman Lawal, Samson O. Ongbali</i>	
Impact of Materials and Wear Mechanisms in a Brake System.....	2903
<i>Faith Ademuyiwa, Sunday Adeniran Afolalu, Stella Isioma Monye, Enesi Salawu, Sunday Lukeman Lawal, Samson O. Ongbali</i>	
Enhancing Cybersecurity Through Advanced Fraud and Anomaly Detection Techniques: A Systematic Review	2911
<i>Oluwambo Tolulope Olowe, Ayodele A. Adebisi, Adebisi O. Marion, Olowe Mofiyinfoluwa Tobi, Deborah Olaniyan, Julius Olaniyan, Aderemi Emmanuel, Kayode Akindeji</i>	
CNN-LSTM Model for Mitigation of DDoS Attacks in Software-Defined Networks.....	2923
<i>Ebunayo Rachael Jimoh, Tinuke Omolewa Oladele, Oluwabunmi Titilope Oladele, Azeez Olawale Akinlolu, Mulikat Bola Akanbi, Olasehinde-Williams Olabanke</i>	
Total Quality Management Implementation in the Mobile Network Operations Centre: A Systematic Literature Review.....	2931
<i>Keabetswe Mogase, Ilesanmi Daniyan, Ale Felix, Khumbulani Mpofo</i>	
Integration of Aeromagnetic Data for Delineating Structures and Mineral Potentials in a Part Share Sheet 202 NW	2944
<i>D. I Ajayi, A. K Olawuyi</i>	
Development of Machine Learning Algorithms for Fault Detection in Power Systems - A Review.....	2951
<i>Olayanju Olamide. Samson, Saheed Lekan Gbadamosi, Moses Oluwafemi Onibonoje, Evans. E. Ojo</i>	
Statistical Analysis of Digital Financial Technology Adoption Research.....	2957
<i>Temiloluwa Iyanuoluwa Ajibade, Olamide Emmanuel Ayodele, Samuel-Soma M. Ajibade, Nanet A. Goles, Johnry P. Dayupay, Anthonia Oluwatosin Adediran</i>	
Non-Dominated Sorting Genetic Algorithm–II Based Optimization for Healthy Meals.....	2962
<i>Asegunloluwa Babalola, Bolanle Ojokoh, Adebayo Adetunmbi, Olutosin Taiwo</i>	
Predictive Distributed Learning Based on Stability and Complexity Measures.....	2967
<i>Efosa Charles Igodan, Olumide O. Obe, A-F Thompson, Otasowie Owolafe, Linda Osarumen Usiosefe, Peter Katyo</i>	
Non-Caloric Sweeteners: A Minireview	2984
<i>Charles Nwonuma, Adedoyin Igunnu, Funso Israel, Clinton Okonkwo, Faith Bamgboye, Anthony Ojekale, Adeyemi Adeyanju</i>	
A Mobile-Based Architectural Framework and Evaluation for Flipped Learning in Open and Distance Education.....	2991
<i>Ambrose A. Azeta, Enosegbe D. Lucky, Emmanuel Ejembi, Joy I. Azeta, Steven Tjiraso</i>	

Intelligent Path Loss Prediction for IoT Connectivity in 5G Networks Using Hybrid Machine Learning Techniques.....	3001
<i>Samuel Robinson, Anthony Imianvan</i>	
Adoption of Artificial Intelligence for Fraud Detection in Deposit Money Banks in Nigeria.....	3009
<i>Timi Joshua Ayeni, Elizabeth Oyewunmi Durotoye, Sylvester Eriabie</i>	
Advancements and Trends in Non-Factoid Question Answering: A Comprehensive Systematic Literature Review	3014
<i>Efosa Uwoghiren, Olufunke Oladipupo, Jelili Oyelade</i>	
Enhancing Pragmatic Nuance Decoding in Bidirectional Encoder Representation from Transformer	3031
<i>Johnwendy Chinedu Nwaukwa, Imianvan Anthony Agboizebeta</i>	
A Server-Side Phishing Detection API Using Long-Short Term Memory (LSTM) and Multi-Layer Perceptron (MLP).....	3038
<i>Emmanuel O. Asani, Oluwatobi Stephen Babalola, Abolade Emmanuel Akinola, Ayomide Segun Barnabas, Olumide Victor Adams, John Olayemi Odumesi</i>	
Automating Customer Service Using Natural Language Processing	3046
<i>Ayodele A. Adebisi, Favour Apeh, Julius Olaniyan, Marion O. Adebisi, Deborah Olaniyan, Ige-Bello Oluwasegunfunmi, Kayode Akindeji</i>	
Development of a Deep Learning-Based System for Road Traffic Anomaly Detection	3054
<i>Roseline Oluwaseun Ogundokun, Nicole Ashiedu, Julius Olaniyan, Deborah Olaniyan, Charles Awoniyi, Adedayo-Ajayi Victoria, Hakeem Babalola Akande, Abayomi A. Adebisi</i>	
Augmenting ATM Security: Real-Time Facial Emotion Recognition as an Additional Safeguard	3059
<i>Marion O. Adebisi, Omirin Oluwadamilola, Deborah Olaniyan, Julius Olaniyan, Asani O Emmanuel, Ige-Bello Oluwasegunfunmi, Abayomi A. Adebisi</i>	
Effect of pH, Concentration, Contact Time, Temperature, and Adsorbent Dosage Operational Parameters on Adsorption of Cu(II) Ions onto Bamboo-NZVI	3066
<i>Adewumi O Dada, Latona Dayo Felix, Blessing Enyojo Tokula, Osasuwa Nath, Clement A. Komolafe, Adekanye Timothy, Olarewaju Dada, Ojediran Olusegun John, Bello Olugbenga Solomon, Folahan A. Adekola</i>	
Combating Urban Dirt: A Systematic Internet of Things Approach to Waste Management.....	3072
<i>Robiat Azeez, Victoria Boluwatife Afolabi, Abidemi Emmanuel Adeniyi, Wilson Sakpere, Ismail Gboyega Adepoju, Rachel Fevisayo Oluwatuyi, Josteve Adekanbi, Wonderful Osalor</i>	
A Mini Review on Spectroscopic Characterization of Green Nanostructured Photocatalysts.....	3077
<i>Adewumi O Dada, Christiana Ajanaku, Blessing Enyojo Tokula, Oluwaseyi Oladokun, Olarewaju Dada, Temidayo Samuel Olorunfemi, Fehintoluwa Elizabeth Dada, Kolawole Ajanaku, Bello Olugbenga Solomon, Folahan A. Adekola, Ujjwal Pal</i>	
Implementing Industry 4.0 Technology in Africa: Possible Challenges and the State of Readiness	3084
<i>Adedotun Adetunla, Bernard Adaramola, Sunday Afolalu, Olugbenga Adetunla</i>	
Automotive Sector and the Maintenance Culture in Developing Nations.....	3092
<i>Adedotun Adetunla, Oluwashina Rominiyi, Sunday Afolalu, Saheed Akande</i>	
Industry 4.0 Implications in Production and Maintenance	3098
<i>Joseph F. Kayode, Sunday A. Afolalu, Stella I. Monye, Bernard A. Adaramola</i>	
Overview of Maintenance Scope and Reliability in the Manufacturing Sector.....	3108
<i>Joseph F. Kayode, Sunday A. Afolalu, Stella I. Monye, Bernard A. Adaramola</i>	

Overview of Maintenance Management Strategies in the Industry.....	3115
<i>Bernard A. Adaramola, Joseph F. Kayode, Stella I. Monye, Sunday A. Afolalu</i>	
Maintenance Impact on Production Profitability in Industry - An Overview.....	3126
<i>Ojo Augustine Oluwatoyin, Sunday Adeniran Afolalu, Stella Isioma Monye</i>	
Maintenance Strategies and Procedures: An Overview.....	3134
<i>Sunday Adeniran Afolalu, Stella Isioma Monye, Adebayo. Tubosun Ogundipe, Temitope Mufutau Azeez, Omolayo Mathew Ikumapayi</i>	
The Role of Maintenance in the Manufacturing Industry.....	3142
<i>Stella Isioma Monye, Sunday Adeniran Afolalu, Sunday Lukeman Lawal</i>	
Geothermal Energy Potentials for Electricity Generation: An Overview.....	3152
<i>Ayodeji K. Ogundana, Sunday Adeniran Afolalu</i>	
The Overview on Fourth Industrial Revolution and Fourth Generation Maintenance-Its Roles and Impacts.....	3158
<i>Ojo Augustine Oluwatoyin, Sunday Adeniran Afolalu, Bernard A. Adaramola, Samuel Obinna Nwankwo, Kaffo Omoniyi Paul, Ayodele K. Ogundana</i>	
Evolution of Maintenance Processes in Industry 4.0- A Review.....	3166
<i>Sunday Adeniran Afolalu, Samuel Obinna Nwankwo, Temitope Mufutau Azeez</i>	
Overview of Maintainance Ideal Model in Industry-4.0.....	3175
<i>Samuel Obinna Nwankwo, Sunday Adeniran Afolalu, Stella Isioma Monye</i>	
Facility Layout Using Computer Routing: A Review.....	3183
<i>Nduka Ekene Udoye, Sociis Tobias Aguzie Okolie, Ogechi Joy Nnamba, Ojo Sunday Isaac Fayomi, Solomon Banjo</i>	
Environmental and Social Implications of Aggregate Extraction: A Review.....	3191
<i>Ayodeji K. Ogundana, Sunday Adeniran Afolalu</i>	
Green Hydrogen: A Source of Anti-Global Climate Change.....	3198
<i>Imhade P. Okokpujie, Joseph F. Kayode, Omolay M. Ikumayi, Stella Isioma Monye, Ayodele Ajayi, Yinka Ajiboye, Boluwaji Jayesimi, Sunday A. Afolalu</i>	
Overview of the Scope of Green Energy and Its Importance in the Third-World Country.....	3209
<i>Omolayo M. Ikumapayi, Joseph F. Kayode, Imhade P. Okokpujie, Stella I. Monye, Ayodele Ajayi, Yinka Ajiboye, Boluwaji Jayesimi, Sunday A. Afolalu</i>	
The Prospect of Pico Hydroelectric System Construction for Domestic Application in Nigeria-A Review.....	3225
<i>Emetere M. E, Ayua T. J, Afolalu S. A</i>	
A Review on Varying Challenges on Semiconducting Materials: Lingerin Experimental Anomalies and Impact on Solar Cell Advancement.....	3230
<i>Emetere M. E, Afolalu S. A</i>	
Neem Seed Methanolic Extract Scavenges Free Radicals and Demonstrate Bacterial Growth Inhibition Potential.....	3236
<i>Omorefosa O. Osemwegie, Marvellous A. Acho, Charles O. Nwonuma, Rachel I. Udoh, Esther T. Adefarati</i>	
Overview of Corrosion Types and Effects of Grain Size Variation on Corrosion Resistance of Steel.....	3246
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	

High Strength Steel in Oil and Gas Applications: A Review of Corrosion and Hydrogen Embrittlement on the Pipelines.....	3252
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Modelling and Optimization of Torsional Stiffness of a Crankshaft	3260
<i>Joseph F. Kayode, Bernard A. Adaramola, John O. Akinyoola, Temitayo M. Azeez, Sunday A. Afolalu, Adebisi O. Akinola</i>	
Analysis of Shear Stress and Bending Moment of a Bolted Joint	3269
<i>Joseph F. Kayode, Bernard A. Adaramola, John O. Akinyoola, Omolayo M. Ikumapayi, Sunday A. Afolalu, Adebisi O. Akinola</i>	
The Design and Simulation of Helical Gear	3282
<i>Sunday A. Afolalu, Joseph F. Kayode, Bernard Adaramola, Stella I. Monye, Omolayo M. Ikumapayi, Lekan Oloyede, Ogundipe Adebayo Tunbosun</i>	
Design and Analysis of a Flywheel Using Solid Works	3294
<i>Sunday A. Afolalu, Joseph F. Kayode, Bernard Adaramola, Stella I. Monye, Omolayo M. Ikumapayi, Ogundipe Adebayo Tunbosun, Snow N. Monye</i>	
Potentiodynamic Study and Microstructural Evaluation of the Corrosion Behavior of Mill Scale and Alumina Reinforced Aluminium Metal Matrix Composites	3307
<i>Adeolu A. Adediran, Oreofeoluwa A. Mosadomi, Peter P. Ikubanni, Achile Nana, Omolayo Ikumapayi, Cynthia C. Nwaeju, Immanuel O. Ojji, Sunday A. Afolalu</i>	
A Review of Vehicles Using Hydrogen Internal Combustion Engines.....	3314
<i>Alex Awunuketa, Faith Chiezie, Joseph Obodo</i>	
Modeling the Tensile Behaviour of Al-7075 Composites Prepared with xB4C Under a High Flow Water Cooling Rate	3322
<i>Adeolu Adesoji Adediran, Abayomi Adewale Akinwande, Sunday A. Afolalu, Omolayo M. Ikumapayi, Kazeem Aderemi Bello</i>	
Characteristics Investigation of Combustion Properties of Electrofuels for Aerospace Application.....	3329
<i>Alex A. Awunuketa, Hameed O. Musa-Basheer, Onoriode Erhinyodavwe</i>	
Toward the Adoption of Green Hydrogen in Africa: Prospects and Challenges.....	3339
<i>Kazeem Aderemi Bello, Omojola Awoegbemi, Sobowale Aladejobi Adedayo, Stella Isioma Monye, Temitayo Mufutau Azeez, Ngozi Snow Monye</i>	
A Concise Review of Green Hydrogen Production Technologies	3346
<i>Omojola Awoegbemi, Kazeem Aderemi Bello, Temitayo Mufutau Azeez, Ayotunde Adigun Ojo, Sobowale Aladejobi Adedayo, Stella Isioma Monye</i>	
Wastewater and Its Management – a Review	3354
<i>Sunday A. Afolalu, Temitayo S. Ogedengbe, Omolayo M. Ikumapayi, Adeolu Adesoji Adediran, Abiodun A. Yussouff</i>	
Waste Management Technology: The Engineering Approach for Achieving Sustainable Development Goal– a Review	3361
<i>Sunday A. Afolalu, Temitayo S. Ogedengbe, Omolayo M. Ikumapayi, Adeolu Adesoji Adediran</i>	
Nanotechnology, Nanomaterials and Composites – an Overview	3367
<i>Sunday A. Afolalu, Temitayo S. Ogedengbe, Omolayo M. Ikumapayi, Adeolu Adesoji Adediran</i>	

Management of Computer and Electronic Waste Through the Fifth Industrial Revolution for the Cleaner Environment.....	3376
<i>Oluwadare Joshua Oyebode</i>	
Development of a Solar Water Heater for Rural- Urban Use in Ado-Ekiti, Nigeria.....	3390
<i>Olufemi S. Amudipe, Kayode J. Friday, Bernard A. Adaramola, Osafehinti J. Olatunbosun</i>	
Development of a Prototype IoT Based Smart Home Automation System: Insight in Energy Efficiency	3397
<i>Adedotun Adetunla, Emmanuel Orilade, Sunday A. Afolalu, Imhade Okokpujie, Adeyinka Adeoye</i>	
Mechanical Investigation of a Recycled Aluminum Scrap Reinforced with Antimony	3402
<i>Temitayo Azeez, Adedotun Adetunla, Oluwasina Rominiyi, Omolayo Ikumapayi, Saheed Akande</i>	
Comparison of Cadmium, Lead, and Nickel Tolerance and Removal by Free and Immobilized Soil Bacterial Isolates	3408
<i>Maryam Y. Asunmo, Tolulope A. Ogunnusi, Oghenerobor B. Akpor</i>	
Mitigation of Deformation During MIG and TIG Welding of High-Strength Steel X65 Pipes: A Review.....	3414
<i>Sunday L. Lawal, Sunday A. Afolalu</i>	
Application of Cascade Refrigeration System in Energy Deficient Societies	3418
<i>Olawejaju Thomas Oginni, Joseph F. Kayode, Oluwasina Lawan Rominiyi</i>	
Development of an Injection Moulding Machine for Recycling (HDPE) Plastic.....	3423
<i>Stephen Abban, Joseph F. Kayode, Usman A. Mustapha</i>	
Renewable Wind Energy: A Review of Control Strategies for Renewable Wind Energy	3429
<i>Hameed Omeiza Musa-Basheer, Momoh Jimoh Salami, Stella Isioma Monye, Alex Ayedun Avwunuketa</i>	
Phytochemical Analysis, Antioxidant and Antibacterial Activities of Aqueous Extract of Hybanthus Enneaspermus Leaves	3441
<i>Modupe M. Adamolekun, Oluwaseyi A. Akpor, Oluwakemi E. Adeola, Ayotunde O. Ajinde, Oghenerobor B. Akpor</i>	
Direct and Indirect Mechanisms of Growth Promotion by Plant Growth Promoting Rhizobacteria.....	3449
<i>Ayotunde O. Ajinde, Olufemi G. Dayo-Olagbende, Oghenerobor B. Akpor</i>	
Application and Optimization of IoT in Storage Devices for Hydrogen Energy.....	3465
<i>Samuel Nwankwo, Omolayo M. Ikumapayi, Imhade P. Okokpujie, Stella I. Monye, Ayodele Ajayi, Yinka Ajiboye, Boluwaji Jayesimi, Sunday A. Afolalu</i>	
Green Hydrogen Energy: An Enabling Tool for the Economy of Power Sector in Sub-Saharan Africa.....	3472
<i>Stella Isioma Monye, Samuel Obinna Nwankwo, Omolayo Michael Ikumapayi, Imhade Princess Okokpujie, Ayodele Ajayi, Yinka Ajiboye, Jaiyesimi G. Boluwaji, Sunday Adeniran Afolalu</i>	
The Effect of Geopolymers and Limestone Calcined Clay in Reduction of Anthropogenic Carbon Dioxide Emissions: A Review	3479
<i>Ayodeji K. Ogundana</i>	

Influence of Eggshell Addition on the Properties of Natural Fibre-Reinforced Epoxy Composite – a Mini-Review.....	3487
<i>Oluwasogo L. Ogundipe, Adeolu A. Adediran, Peter P. Ikubanni, Timothy A. Adekanye, Emmanuel S. A. Ajisegiri, Omolayo. M. Ikumapayi, Sunday A. Afolalu</i>	
Utilization of Agro-Waste Materials as Viable Strengthening Agents in Carburisation: Review	3494
<i>Bose M. Edun, O. O. Ajayi, Sunday A. Afolalu, Joseph F. Kayode, A. T. Ogundipe, A. A. Fajugbagbe</i>	
Adoption of Smart Automation Technologies and Computational Intelligence in Mechatronics Systems for Environmental Sustainability.....	3503
<i>Oluwadare J. Oyebode, Sunday A. Afolalu</i>	
Waste to Energy in Nigerian Context: Journey So Far and Way Forward.....	3514
<i>Oluwadare J. Oyebode, Kayode S. Aderomose</i>	
Biosynthesis, Characterization, and Antimicrobial Study of Zinc Oxide Nanoparticles Using Adonida Merrilli Leaf Extract	3524
<i>Taiwo Felicia Owoeye, Abayomi Bamisaye, Joseph Adeyemi Adekoya, Sunday A. Afolalu, Stella Isioma Monye, Ojo Augustine Oluwatoyin</i>	
Eco-Friendly Synthesis, Characterization, and Antimicrobial Studies of Zinc Oxide Nanoparticles Using Cassia Javanica Leaf Extract.....	3532
<i>Taiwo Felicia Owoeye, Abayomi Bamisaye, Emetere Moses Eterigho, Sunday A. Afolalu, Stella Isioma Monye, Ojo Augustine Oluwatoyin</i>	
Comparative Analysis of Cost Savings in the Utilization of Green Hydrogen Energy in Developing Countries	3540
<i>Gbenga F. Akomolehin, Samuel O. Nwankwo, Sophia O. Abiri-Franklin, Adebayo T. Ogundipe, Pius A. Okiki, Olukemi A. Osukoya, Adeyinka O M Adeoye, Smaranda E. Olarinde, Abraham Adeniran, Joseph F. Kayode, Sunday A. Afolalu</i>	
Assessment of Potential Suitability of Groundwater for Irrigation in Emure Ekiti, South-Western Nigeria.....	3554
<i>Olubukola O. Afolabi</i>	
Models for Predicting High-Temperature Hardness and Wear Rate Responses of 6061-Al/Boron Carbide Composite	3559
<i>Adeolu Adesoji Adediran, Abayomi Adewale Akinwande, Omolayo Ikumapayi, Emmanuel Ajisegiri, Afolalu S. Adeniran</i>	
Effect of Filler Loading and Mould Size on the Mechanical Properties of Aluminium Matrix Composites Strengthened with Calcium Carbide Waste.....	3564
<i>Chioma Emmanuella Njoku, Chukwudike Onuoha, Ugochukwu Chizuruoke Nwaogwugwu, Nmesomachi Christopher Iheke, Adeolu Adesoji Adediran, Omolayo Ikumapayi, Olurotimi Adeoti</i>	
Optimization of Oil Extraction from Mucuna Pruriens Seeds (velvet Bean) for Biodiesel Production	3568
<i>Ogundipe Samson, Odetoye E. Temitope, Adesina. O. A</i>	
GPX-S: A Tool for Accessing Refinery Wastewater Biodegradability	3577
<i>Bomafinitamunopiri Longjohn, Ehiaghe Itua, Daniel Keji, Mufliah Omofoyewa, Stephen Aderomose, Abdulwahab Giwa</i>	
Sustainable Biomass Feedstock Selection for Hydrogen Production in Africa	3582
<i>Ehiaghe Itua, Daniel Keji, Bomafinitamunopiri Longjohn, Mufliah Omofoyewa, Idowu Olateju, Abel Adeyi, Abdulwahab Giwa</i>	

A Concise Review of Techniques for Green Hydrogen Production	3589
<i>Oladapo Ibitoye, Yinka Ajiboye</i>	
Tertiary Matrix Liberation of Bypassed Hydrocarbons in Core Sample Pore Throat Restriction Caused by Fine Particle Accumulation After Waterflooding.....	3594
<i>Adeniyi Adekunle Tirimisiyu, Ifabiyi Olushola Olukunle, Udeagbara Stephen</i>	
Drilling to the Pay Zone with Water-Based Mud: Focus on Drill Cuttings Treatment.....	3602
<i>Adeniyi Adekunle Tirimisiyu, Usigbe Kelly Omon</i>	
Power Conservation in Manufacturing: A Review of Pros and Cons in Developing Nations	3609
<i>Omolayo M. Ikumapayi, Opeyeolu T. Laseinde, Temitayo Ogedengbe, Boluwaji G. Jaiyesimi, Temitayo M. Azeez, Sunday A. Afolalu</i>	
A Study on the Utilization of Green Hydrogen Energy - An Overview	3618
<i>Omolayo M. Ikumapayi, Opeyeolu T. Laseinde, Tin T. Ting, Sunday A. Afolalu, Adedotun O. Adetunla, Temitayo S. Ogedengbe</i>	
Development and Performance Evaluation of Gmelina-Arborea Based Cutting Fluid for the Turning of AISI 1405 Steel.....	3628
<i>Omolayo M. Ikumapayi, Opeyeolu T. Laseinde, Oluwasina L. Rominiyi, Adedotun O. Adetunla, Temitayo M. Azeez, Temitayo S. Ogedengbe</i>	
Role of Energy Modelling in Assess Renewable Energy Penetration Potential in Nigeria.....	3635
<i>Omolayo M. Ikumapayi, Ware-Ebi H. Guwor-Niki, Olayinka Adegoke, Boluwaji G. Jaiyesimi, Opeyeolu T. Laseinde, Elisabeta S. Olarinde</i>	
A Concise Review on the Impact of Electric Vehicle Penetration on National Grid.....	3645
<i>Omolayo M. Ikumapayi, Olayinka Adegoke, Ware-Ebi H. Guwor-Niki, Boluwaji G. Jaiyesimi, Opeyeolu T. Laseinde, Tin T. Ting</i>	
Design and Construction of a Prototype Hybrid Solar-Wind Power System.....	3654
<i>Oluwasina L. Rominiyi, Omolayo M. Ikumapayi, Johnson F. Eiche, Adeyemi W. Oke, Abdussami Giwa, Ugwushichika Alabo</i>	
Climate Change Impacts on Destination Choices: Shifts in Tourism Patterns and Hospitality Responses	3661
<i>Marcus T. Adedara, Samuel Obinna Nwankwo, Olayinka Aina Christopher, Ajayi Oluwole, Adeyemi J Ademowo</i>	
Green Hydrogen Generation from Plastic Waste: A Review	3669
<i>Ayodeji K. Ogundana, Olubukola O. Afolabi, Martins Ilevbare, Philips O. Falae</i>	
How Does Artificial Intelligence and Accountability Optimises Energy Management and Cost Reduction in Nigeria's Manufacturing Firms?	3680
<i>Israel S. Akinadewo, Muyiwa E. Dagunduro, Jeremiah O. Akinadewo, Isaiah O. Oluwagbade, James U. Akpan</i>	
A Conceptual Framework for the Adoption of IoT in the Energy Sector: Technology-Organization- Environment Framework Approach	3692
<i>Snow Ngozi Monye, Stella Isioma Monye, Sunday Adeniran Afolalu, Imhade Princess Okokpujie, Adedotun O. Adetunla, Omolayo M. Ikumapayi, Kazeem Bello Aderemi, Samuel Obinna Nwankwo, Ejaita Abugor Okpako</i>	

A Comparative Analysis of Big and Small Seeded Varieties of Castor Seed (<i>Ricinus Communis</i>) and Its Oil.....	3698
<i>Ayodeji Samuel Omotehinse, Stella Isioma Monye, Cordelia Ochuole Omoyi, Tunde Basit Adeleke, Sunday Adeniran Afolalu, Imhade Princess Okokpujie, Samuel Obinna Nwankwo, Kazeem Bello Aderemi, Snow Ngozi Monye</i>	
Assessment of the Combined Effects of Input Parameters on Solidus and Liquidus Temperature in TIG Welding.....	3707
<i>Tunde Basit Adeleke, Stella Isioma Monye, Cordelia Ochuole Omoyi, Ayodeji Samuel Omotehinse, Sunday Adeniran Afolalu, Imhade Princess Okokpujie, Olugbenga Mayowa Agboola, Kazeem Bello Aderemi, Snow Ngozi Monye</i>	
Mechanical Properties and Performance Evaluation of Recycled HDPE Materials for Environmental Waste Control and Economic Benefits.....	3712
<i>Stephen Abban, Joseph F. Kayode, Akinnuli Basil Olufemi</i>	
Analysis of Torsional Deformation in an Elongated Shaft.....	3721
<i>Joseph F. Kayode, John O. Akinyoola, Temitayo Ogedengbe, Ayodeji A Noiki, Sunday A. Afolalu, Adebisi O. Akinola</i>	
Design and Optimization of a Flange Coupling Using Finite Element Analysis.....	3729
<i>Joseph F. Kayode, John O. Akinyoola, Temitayo Ogedengbe, Ayodeji A Noiki, Sunday A. Afolalu, Adebisi O. Akinola</i>	
Exposure and Ecological Impacts of Chemical Pollution on Biodiversity.....	3737
<i>Olukemi A. Osukoya, Samuel O. Nwankwo, Sophia O. Abiri-Franklin, Adebayo T. Ogundipe, Pius A. Okiki, Elizabeth Ateli, Adeyinka O M Adeoye, Smaranda E. Olarinde, Adeniran Abraham, Snow N. Monye</i>	
Design and Fabrication of Water Purifier Using UV Light.....	3743
<i>Joseph F. Kayode, Bello Muhammad, Jude Audu, Sunday A. Afolalu, Adeyinka O. M. Adeoye</i>	
Evaluating Legal Frameworks for Hydrogen Energy Storage in Sub-Saharan Africa: Policy Principles and Economic Perspectives.....	3747
<i>Sophia O. Abiri-Franklin, Chisom F. Onuoha, Sunday A. Afolalu, Joseph N. Agada, Elisabeta S. Olarinde</i>	
Regulatory Frameworks and Enforcement Mechanisms in Nigerian Mining Laws: Challenges and Solutions.....	3752
<i>Chisom F. Onuoha, Adiele Emejuru, Sunday A. Afolalu, Sophia O. Abiri-Franklin, Elisabeta S. Olarinde</i>	
Defining Noise Index in Abdominal CT: A Comprehensive Analysis Using Liver and Kidney as Regions of Interests.....	3758
<i>Haruna Mamman, Yinka Ajiboye, Oladapo Ibitoye</i>	
Green Transition and Carbon Footprint Reduction in the Hospitality Industry in Nigeria: A Systematic Review.....	3770
<i>Abraham Adeniran, Fhulufhelo Netswera, Adedara Marcus</i>	
Microbial Production of Hydrogen as Alternative to Fossil Fuel -A Review.....	3775
<i>Sunday O. Bamiteko, P Abimbola Okiki, E. Smaranda Olarinde, Afolalu S. Adeniran</i>	
Exploration of Green Hydrogen Energy in Africa.....	3781
<i>Funmilayo T. Awolusi, Joseph F. Kayode, Sunday A. Afolalu, Aburo Anuoluwapo, Yinka Ajiboye, Boluwaji Jayesimi, Abraham O. Adeniran, Akomolehin Francis, Snow N. Monye</i>	

Internet of Things Applications in Health Systems' Equipment: Challenges and Trends in the Fourth Industrial Revolution	3788
<i>Olamide O. Afolalu, Oluwaseyi A. Akpor, Sunday A. Afolalu, Oladele F. Afolalu</i>	
Internet of Things and Software Applications in Patient Safety Adverse Event Detection and Reporting: A Comprehensive Literature Review	3797
<i>Olamide O. Afolalu, Sunday A. Afolalu, Oladele F. Afolalu, Oluwaseyi A. Akpor</i>	
Non-Thermodynamic Equilibrium Plasma, an Oxidation Process for Environmental Protection: Principles, Mechanisms, and Prospects	3808
<i>Oghenerobor B. Akpor, Ayotunde O. Ajinde, Olufemi G. Dayo-Olagbende</i>	
An Algorithm for the Visualization of Shock Waves in Supersonic Flow	3825
<i>Alex Avwunuketa, Obodo Joseph, Divine Nmoyem, Olatunji Oyelaran, Michael Quaicoe, Joseph Dada</i>	
Assessment of Vulnerability of a Failed Section of the Iju-Itaogbolu/Ikere-Ekiti Road in Southwestern Nigeria	3834
<i>Oluwaseun Samuel Ogungbemi, Ganiyu Olabode Badmus, Philip Omowumi Falae, Yinka Ajiboye</i>	
The Future of Green Hydrogen in the Global Economy: Opportunities, Challenges and Implications	3843
<i>Yinka Ajiboye, Olakunle L. Ojo, Joseph F. Kayode, Temitope Awolusi, Bolwaji Jayesimi, Sunday A. Afolalu, Anioluwapo Aburo, Martins Ilevbare</i>	
Biomechanical Analysis of Netball Players in Different Positions: A Comparative Study	3871
<i>Boluwaji G. Jayesimi, Ranel Venter</i>	
Memory Interfacing in Mechatronics Systems: Constraints and Considerations	3884
<i>Snow Ngozi Monye, Sunday Adeniran Afolalu, Aderonke Oluseun Akinwumi, Stella Isioma Monye, Imhade Princess Okokpujie, David Agbemuko, Joseph F. Kayode, Kazeem Bello Aderemi</i>	
Adoption of Integrated Coastal Zone Management in Tackling Beach Resort Destination Challenges in Suntan Beach Badagry Nigeria	3893
<i>Aina Olayinka Christopher, Ogundipe Adebayo Tunbosun, Sunday A. Afolalu</i>	
Physicomechanical Properties of Structural Timber Strengthened with Basalt Mesh Jacketing	3903
<i>Paschal Chimeremeze Chiadighikaobi, Timothy Alhassan Amake, Stephen Kayode Aderomose</i>	
Development of an Intelligence Based Hexapod for Surveillance Using Raspberry Pi	3912
<i>Oluwaseun Olayinka Tooki, Abdulrahman Adebisi Aderinto, Idowu Akinremi Ojerinde, Robert Abolade, David Aborisade</i>	
Assessment of Gaussian Distribution Pattern of Pollutants in Lafarge Cement Factory Sagamu, Ogun State, Nigeria	3915
<i>Oluwatoyin O. Ajayi, Ben U. Ngene, Adebajji S. Ogbiye, Olaoye G. Ogunyemi</i>	
Justification of Quinquennial Revaluation of Properties for Rating Assessment: A Case of Garki Area 2 Abuja, Nigeria	3920
<i>Chukwuemeka O. Iroham, Hilary I. Okagbue, Favour C. Frank-Amadi, Samuel Munyemana</i>	
Client Satisfaction in Property Management by Estate Surveyors and Valuers and Legal Practitioners: A Case of RIVTAF Golf Estate, Port Harcourt, Nigeria	3927
<i>Chukwuemeka O. Iroham, Chizzy D. Chike-Chuku, Hilary I. Okagbue, Samuel Munyemana</i>	

Contribution of Real Estate Investment on Socioeconomic Development in Rwanda: A Case Study of Kicukiro District.....	3934
<i>Samuel Munyemana, Chukwuemeka O. Iroham, Afolasade O. Oluwatobi, Richard Manirakiza</i>	
Satisfaction with Housing Unit Support Services of the Public Sector Employee Housing Schemes in Lagos State, Nigeria	3943
<i>Adedotun O. Akinola, Eziyi O. Ibem, Akunnaya P. Opoko, Adedapo A. Oluwatayo, Egidario B. Aduwo, Uzodinma K. Ugah</i>	
Review of Lighting Strategies for Enhancing Users' Experience and Achieving Environmental Sustainability in Art Museums	3948
<i>F. J. Oyeyipo, A. B. Sholanke, D. I. Anosike</i>	
Multi-Objective Multi-Integer Maintenance Planning Optimization Model of Industrial Conveyor Belt	3956
<i>Onyisi Ozuor, Desmond E. Ighravwe, Daniel O. Aikhuele, Ojo S. I. Fayomi, Enesi Y. Salawu</i>	
Characterization and Optimization of Carbonization of Flamboyant Tree Pod.....	3964
<i>Oluwasanmi Iyiola Alonge, Precious Ayomide Oreoluwa, Adebunmi Peter Okediji, Olusola Ayodele Oloruntoba, Ismaila Olanrewaju Alabi</i>	
A Review of Surface Active Coatings for Sprinkler Pipes in Building Services Application	3971
<i>Lydia B. Adetola, Benjamin E. Anyaegbuna, Ojo S. I. Fayomi</i>	
Analysis of the Critical Assessment of Social Housing Programs for the Urban Poor in Lagos, Nigeria.....	3976
<i>Gloria U. Fayomi, Ednah K. Onyari</i>	
Narratives on Quality Water Assessment and Contemporary Challenge.....	3981
<i>Gloria U. Fayomi, Ednard K. Onyari</i>	
Wear Characteristics of Electro-Deposited Ni-Cu-In Nanoparticle Coatings for Automotive Application	3985
<i>O. S. I Fayomi, A. P. I Popoola, O. M Dada, O. J Fayomi, V. Tau, L. R Kanyane</i>	
Evaluation of Mechanical and Electrochemical Performance of Arc-Melted AlVCrFeNi High Entropy Alloy	3988
<i>L. R. Kanyanea, A. P. I Popoolaa, N. Malatji, M. Dada</i>	
Waste Blended Interlocking Fired Bricks as Pavement Alternative	3993
<i>Igibah C Ehizemhen, Amu O O, Adetayo O A</i>	
Performance Evaluation of Tio ₂ and Al ₂ O ₃ Nanomixture with Environmentally Refrigerant in Refrigeration.....	3998
<i>T. O. Babarinde, D. M. Madyira</i>	
Replacement of Halogenated Refrigerants with Environmentally Friendly Alternatives in Refrigeration and Air Conditioning Systems: A Mini Review	4003
<i>T. O. Babarinde, D. M. Madyira</i>	
A Review of Applicable Approaches to Safety Incentive Schemes Design in the Construction Industry.....	4007
<i>Kunle E. Ogundipe, Clinton O. Aigbavboa, Babatunde F. Ogunbayo</i>	
Multilinear Regression Predictive Analysis of Additive Manufactured High-Carbon Steel Powder	4015
<i>Victor Aladesanmi, Timothy Laseinde</i>	

Assessing Current Health and Safety Practices in the Construction Industry in the Fourth Industrial Revolution	4020
<i>Oluwarotimi Gbenga Abina, Babatunde Fatai Ogunbayo, Clinton Aigbavboa</i>	
Strategies for Successful Monitoring and Evaluation Practices in Construction Projects	4026
<i>B. F. Ogunbayo, M. S. Ramabodu, B. A. Adewale, K. E. Ogundipe</i>	
Assessing Monitoring and Evaluation Effectiveness for Projects in the Construction Industry.....	4033
<i>B. F. Ogunbayo, C. O. Aigbavboa, S. Ahmed, M. Stevens</i>	
Health and Safety Practices Strategies Implementation in the Fourth Industrial Revolution.....	4043
<i>Gbenga Abina Oluwarotimi, Fatai Ogunbayo Babatunde, Aigbavboa Clinton</i>	
Barriers to Low Carbon Retrofitting of Higher Educational Building Projects.....	4051
<i>Ayobami Oluwaseun Idowu, Clinton Aigbavboa, Ayodeji Emmanuel Oke, Douglas Aghimien</i>	
Heat Transfer Characteristics of Al ₂ O ₃ Based Nano Refrigerants in the Evaporator and Condenser of Vapor Compression Refrigeration Systems.....	4055
<i>Mercy Ogbonnaya, Oluseyi O. Ajayi, Mufatau A. Waheed, Abimbola P. I. Popoola</i>	
Impact of Risk on Time Performance of Highway Projects in Nigeria	4062
<i>Victor I. Aligamhe, Muzani Mustapa, Chukwuemeka P. Ogbu</i>	
Encumbrances to Social Media Applications in the South African Construction Industry	4069
<i>Olusegun A. Oguntona, Usiphile Ndoda, Opeoluwa Akinradewo, Babatunde F. Ogunbayo, Clinton O. Aigbavboa</i>	
Review and Analysis of IoT-Based Control Systems in Supply Chain Distribution, Home Applications, Irrigation Monitoring, and Energy Generation: Challenges and Future Trends	4077
<i>Imhade P. Okokpujie, Kien-Olali A. Kinggs, Anthony O. Onokwai, Adedotun Adetunla, Christian O. Osueke</i>	
Benefits of Green Building Collaborative Networks Towards the Attainment of Sustainable Development Goals in South Africa	4101
<i>Olusegun A. Oguntona, Keamogetswe Maluleke, Clinton O. Aigbavboa, Opeoluwa Akinradewo</i>	
Charcoal Production in Maryland County, Liberia: Producers' Tree Species Preference.....	4108
<i>Adebayo Samuel Olabisi, Ayokunle O. Balogun, Bamidele Sunday Fakinle, Ejiroghene Onokpita, Ibikunle R. A, Anthony O. Onokwa</i>	
Comparative Analysis of the Strength and Safety Impacts on Industrial Conveyor Belt Maintenance Planning.....	4114
<i>Onyisi Ozuor, Desmond E. Ighravwe, Daniel O. Aikhuele, Ojo S. I. Fayomi</i>	
Preparation and Characterisation of Rigid Polyurethane Foam from Terminalia Catappa (Tropical Almond) Seed Oil-Based Polyol	4121
<i>Funmilola Y. Falope, Paul M. Osamudiamen, Oyinlola R. Obanla, Nathaniel Y. Illesami, Adegboyega P. Adeoye</i>	
Effect of Road Expansion on Residential Property Rental Value: Experience from Nigeria	4126
<i>J. O. Oyedeji, A. O. Olorunisola</i>	
Evaluation of Housing Needs and Residential Buildings' Design in Mushin Local Government Area, Lagos State	4136
<i>S. A. Kuti, A. S. Alabi, O. A. Alabi, T. E. Adebakin, O. O. Iyare</i>	

An Assessment of the Benchmarks for the Selection of Contractors for Road Construction Projects in Ogun and Lagos States	4142
<i>Morakinyo K. Onifade, Olufemi A. Oroye, Peters F. Sokenu</i>	
Contextual Use of a Smart Farm Irrigation System Using the Internet of Things (IoT)	4154
<i>Michael Abejide Adegoke, Abidemi Abogunrin, Temitope Elizabeth Ogunbiyi, Bidemi Tosin Ashade, Kayode Ogunsola, Oluwasefunmi 'tale Arogundade</i>	
Implementation of a Wireless Semi-Autonomous Campus Security System	4164
<i>Abayomi A. Oke, Olu V. Matthews</i>	
Design and Construction of a Compact Water Treatment Plant Using Bio-Sand Filter as the Filtration System	4168
<i>Adewoye Olanipekun, Jesuloluwa Olatunji, Daniel Idusuyi, Ebenezer Akande, Abdulganiyu Raji, Ayoleyi Solomon</i>	
Industry 5.0 and Production Planning and Control in Manufacturing Industries	4174
<i>Ademola Henry Oladeinde, Oluwasenu O. Ojo</i>	
Advances of Nanocrystalline Coating for Optoelectrical and Multifaceted System	4181
<i>A. D Adeleye, Ojo S. I. Fayomi, D. Mashao, Joshua O. Atiba</i>	
Exploratory Data Analytics of Ota Transmission Sub-Station Electricity Load Patterns: Insights for Forecasting and Policy Direction	4192
<i>Rafiu O. Oyebisi, Olamide O. Olusanya</i>	
Agro-Waste Nanofiller as a Reinforcer for Service Life Improvement of Coated Sample.....	4198
<i>Peter O. Opadoyin, Ojo S. I. Fayomi, Joshua O. Atiba</i>	
Analysis of Supply Chain Management Internal Process Criteria for Fast Moving Consumer Goods	4202
<i>Ernest E Nwachukwu, Desmond E Ighravwe, Sunday T Ajayi, Abraham O Amole, Enediabasi A Etangetuk, Daniel O Aikhuele, Micheal O Ogundijo</i>	
Focus on Aluminium Metal Matrix Composites for Manufacturing Application.....	4208
<i>A. O. Akinyemi, O. S. I. Fayomi</i>	
Analysis of the Maintenance and Reliability System in the Production Plant: A Case Study of the Polyvinyl Chloride (Pvc) Pipe Extruder	4213
<i>Chinedu A. K. Ezugwu, Adelana A. Adepoju, Morakinyo K. Onifade, Ojo S. I. Fayomi, Christian O. Osueke, Kayode E. Ojo, Oluwaseyi E. Adeyemi, Reuben S. Diarah</i>	
Short Overview of Energy Potential Trials and Triumphs of Institution	4222
<i>Adedapo S. Okunade, Benjamin E. Anyaegbuna, Ojo S. Fayomi, Anthony O. Onokwai</i>	
Review of Biomass as a Renewable Energy for Sustainable Environment	4227
<i>O. E. Olayokun, B. E. Anyaegbuna, A. O. Onokwai, D. I. Faola, I. O. Muslim, A. O. Eruobodo, A. O. Adiatu</i>	
Modeling and Optimization of Buck-Boost Converter Using Perturbation and Observation Technique	4234
<i>Abraham Amole, Titilayo Sodipo, Adebimpe Adeyeye, Joshua Nobei, Nosagiagbon Imarhiagbe</i>	
A Review of Risk Assessment Driven Approach for Power Transformer Replacement that Considers Temperature, Apparent Age and Projected Capacity	4244
<i>P. O. Olabisi, O. I. Onabajo</i>	

A Review of the Coordination of Over-Current Relay Protection in Sub-Transmission Stations Using Computational Optimization Techniques.....	4253
<i>Patrick O. Olabisi, Babajide J. Ayegbokiki</i>	
Assessment of the Viability of Renewable Energy Sources as a Secondary Power Source in Hybrid Communities	4263
<i>Anthony Uchenna Anieze, Sunday Ojo Fayomi, Desmond Eseoghene Ighravwe</i>	
Wireless Network in Nigeria: Development, Growth, Challenges and Prospects	4268
<i>Omotoso O, Igbinsosa G. O</i>	
Review on Pumped Storage Hydropower Plant for Energy Generation for Agricultural Use.....	4278
<i>Iyun E. Yahya, Abraham O. Amole, Adebimpe O. Adeyeye</i>	
An In-Depth Review of Biomass for Sustainable Energy Generation in Nigeria's Context.....	4291
<i>David I. Faola, Anthony O. Onokwai, Benjamin E. Anyaegbuna, Innocent C. Osuizugbo, Imhade P. Okokpujie, Ejiroghene Onokpite</i>	
A Review on Development and Synthesis of Carbon Rich Filler on Dross Alloy for Building Ceiling	4301
<i>Gideon I. Samuel, Benjamin E. Anyaegbuna, Ojo S. Fayomi, Anthony O. Onokwai</i>	
Integrating Maintenance Practices with Industry 4.0 in Manufacturing System	4307
<i>Effiong U. Kufre, Anthony O. Onokwai, Morakinyo K. Onifade</i>	
Comprehensive Review on Modelling and Optimization of Budget Allocation for Procurement of Alternative Gas Sources in Power Plant Industry.....	4312
<i>Ojo Oluwaseun Oluwagbemiga, Adedeji Bamidele, Akinnuli Basil Olufemi</i>	
Computational Logic for Proffering Solutions to Multi-Criteria Surrogate Problem in Manufacturing Equipment Procurement Under Limited Available Budget.....	4323
<i>Oluwaseun Ojo, Oloye Olatunji, Timothy Ojo, Basil Akinnuli, Suru Gbenu</i>	
A Review of Transmission Line Fault Distance and Direction Estimation Using Various Techniques	4336
<i>S. Abiodun Hussein, Titilayo. A. Kuku</i>	
Assessing Methodological Validity and Variable Considerations for Forecasting Renewable Energy Load Requirements: A Review	4344
<i>Ademola P. Olagunju, Olamide O. Olusanya, Taiwo Olaleye</i>	
Comparison of Multinomial Naive Bayes (MNB), Gaussian Naive Bayes (GNB) and Random Forest (RF) Algorithm in Malaria Disease Diagnosis	4353
<i>Temitope Olufunmi Atoyebi, Rashidah Funke Olanrewaju, N. V. Blamah, Emmanuel. C. Uwazie</i>	
A Comparative Analysis of Selected Machine Learning Classifiers for Early Detection of Breast Cancer.....	4359
<i>Okebule Toyin, Oluwaseyi A. Adeyemo, Abiodun Oguntimilehin, Stephen E. Obamiyi, Bukola Badeji-Ajisafe, Abiola O. B, Opani M. Aweh, Sanya O. A, Christianah O. Akinduyite</i>	
Cybersecurity and Cybercrimes in Nigeria: An Overview of Challenges and Prospects	4367
<i>Yakubu Aliyu Ibrahim, Adelaiye Oluwasegun Ishaya, Musa Yusuf, Ipole Nancy, Hassan Anah Bijik, Sunday Folusho Aiyedogbon</i>	
Detection of Image-Based Plant Leaf Diseases Using Convolutional Neural Networks	4374
<i>Morolake Oladayo Lawrence, Peter Ogedebe</i>	

Facial Emotion Recognition Using Convolutional Neural Network in a Learning Environment	4380
<i>Olanike Christianah Akinduyite, Bukola Badeji-Ajisafe, Abiodun Oguntimilehin, Stephen . E. Obamiyi, Abimbola Omotola Ajibade, Adesina Obafemi Fikayomi</i>	
Cardiovascular Disease Prediction Using Machine Learning Techniques: A Review	4388
<i>Raphael Ozighor Enihe, Rajesh Prasad, Francisca Nonyelum Ogwueleka, Muhammad Sanusi</i>	
An Efficient Key Establishment and Distribution Scheme for Wireless Body Area Networks	4394
<i>Yusuf Taofeek, Waziri Onomza Victor, Morufu Olalere, Muhammad Bashir Abdullahi</i>	
Customer Segmentation Through RFM Analysis and K-Means Clustering: Leveraging Data-Driven Insights for Effective Marketing Strategy	4400
<i>Oluwatobi Noah Akande, Hakeem Babalola Akande, Emmanuel Oluwatobi Asani, Bestman Tobeckukwu Dautare</i>	
Analysis of Nigeria’s COVID-19 Data Using Time Series and Maching Learning Models: Imperatives for Actions into Possible Future Pandemic	4408
<i>Nkechi G. Okoacha, Patrick Osatohanmwem</i>	
Enhancing Cybersecurity in Nigeria: A Proposed Risk Management Framework for Universities	4412
<i>Suleiman Farouk, Chandrashekhar Uppin, Gilbert George</i>	
IoT’s Impact on Nigeria’s Construction Industry: Unveiling Benefits in the Era of the 4th Industrial Revolution(4IR).....	4420
<i>Suleiman Farouk, Chandrashekhar Uppin, Gilbert George</i>	
Location-Based Tourism Recommender System Using Swarm Intelligence	4427
<i>Adeyemo Oluwaseyi A, Bakare Kaosara O, Oguntimilehin A., Opani M. Awch, Toyin Okebule</i>	
An Intelligent Model for Cardiovascular Disease Diagnosis Using Machine Learning.....	4434
<i>Stephen E. Obamiyi, Bukola Badeji-Ajisafe, Abiodun Oguntimilehin, Toyin Okebule, Gbemisola O. Babalola, Christianah O. Akinduyite</i>	
A Machine Learning Driven Malaria Fever Medical Consultation Chatbot.....	4441
<i>Abiodun Oguntimilehin, Gbemisola O. Babalola, Christianah O. Akinduyite, Stephen E. Obamiyi, Toyin Okebule, Funmilayo H. Oyelami, Oluwatoyin B. Abiola, Bukola Badeji-Ajisafe, Efaibinokpabi Abang</i>	
Comparative Analysis of Machine Learning Models on Employees’ Attrition Prediction	4447
<i>Christianah O. Akinduyite, Abiodun Oguntimilehin, Bukola Badeji-Ajisafe, Stephen E. Obamiyi, Toyin Okebule, Kehinde A. Olatunji, Oluwaseyi A. Adeyemo, Gbemisola O. Babalola, Sarima L. Collins</i>	
SMat-Bot: An Interactive Chatbot for Facilitating Students’ Comprehension of Mathematics.....	4454
<i>Olutabo T. Berida, Abiodun Oguntimilehin, Bukola Badeji-Ajisafe, Adebisola M. Tope-Oke, Gbemisola O. Babalola, Christianah O. Akinduyite, Toyin Okebule, Stephen E. Obamiyi, Oluwafemi A. Sanya</i>	
Multilayer Perceptron Based Mobile Application for Diagnosing Typhoid Fever	4462
<i>Stephen E. Obamiyi, Abiodun Oguntimilehin, Kolapo A. Ganiyu, Olutabo T. Berida, Gbemisola O. Babalola, Christianah O. Akinduyite, Bukola Badeji-Ajisafe, Toyin Okebule, Oluwafemi A. Sanya</i>	
Improved Intelligence Gathering for Satellite Images of Varying Resolutions Using Deep Learning Techniques.....	4468
<i>Ngozi Ukamaka Okonkwo, Francisca Nonyelum Ogwueleka, Prasad Rajesh, Muhammed Sanusi</i>	

An Intelligent Model for Effective Lassa Fever Prediction Based on Convolutional Neural Network	4474
<i>Adetokunbo Macgregor John-Otumu, Aliga Paul Aliga, Chukwuemeka Etus, Obi Chukwuemeka Nwokonkwo, Emmanuel Osaze Oshoiribhor, Victor Onyekachi Aniugo</i>	
Advancing COVID-19 Prediction with Deep Learning Models: A Review	4479
<i>Adetokunbo Macgregor John-Otumu, Charles Ikerionwu, Oluwaseun Oladeji Olaniyi, Oyewole Dokun, Udoka Felista Eze, Obi Chukwuemeka Nwokonkwo</i>	
Comparative Study of Machine Learning Models for Predicting COVID-19	4484
<i>Folasade Mercy Okikiola, Abiodun Muyideen Mustapha, Olasunkanmi Esther Oladiboye, Olaitan Lateef Lawal</i>	
Comparison of Random Forest, K-Nearest Neighbor, and Support Vector Machine Classifiers for Intrusion Detection System	4491
<i>Emmanuel Chinanu Uwazie, Afolayan A. Obiniyi, Morufu Olalere, Perpetua N. Achi</i>	
Sustainable Development Goal-17 and Nigeria Data Protection Regulation Adoption Among Organizations in Nigeria.....	4497
<i>Sumayya Babangida-Sabo, Samuel C. Avemaria Utulu, Abel Ajibesin</i>	
Ens5B-UNet for Improved Microaneurysms Segmentation in Retinal Images.....	4503
<i>Tiwalade Modupe Usman, Yakub Kayode Saheed, Adeyemi Abel Ajibesin, Augustine Shey Nsang</i>	
Integration of Load Balancing in SDN Based 5G Core Network.....	4509
<i>Hakeem Babalola Akande, Oluwatobi Noah Akande, Shakirat Aderonke Salihu</i>	
An Innovative Image Encryption Algorithm Rooted in the Concept of Latin Square Matrix Algorithm	4514
<i>Oluwatobi Noah Akande, Egenti Grace Ebere, Charles Isah Saidu, Peter Ogedebe</i>	
Machine Learning Algorithm for Predicting Mood Disturbances	4521
<i>Bukola Badeji-Ajisafe, Stephen Eyitayo Obamiyi, Abiodun Oguntimilehin, Okeibunor Kingsley, Abimbola Omotola Ajibade, Ajibade Idowu Victor</i>	
Factors Affecting Immunity Level to Hepatitis B Vaccine in Some Parts of Nigeria.....	4526
<i>Waseve Vandu-Kwabe, Maryam Aminu, Helen I. Inabo</i>	
Shea Butter (<i>Vitellaria Paradoxa</i> G.) Production in Nigeria: Constraints and Prospects a Multifaceted Industry in the 21st Century	4532
<i>Adebayo Adedeji, Ibikunle Olalekan Ogundari, Adebukola Adenike Adedeji, Frank Abimbola Ogundolie, Babatunde Sunday Ogunsina, Obayemi Oluwadamilare Emmanuel</i>	
Inhibition of TNF- α Expressions by <i>Triticum Aestivum</i> (wheat Grains) in Acetic Acid-Induced Ulcerative Colitis Using Male Wistar Rats.....	4538
<i>Grace I Adebayo-Gege, Deborah Oboma, Omayone Tosan, Ngabea Audu Muritala, Frank Abimbola Ogundolie, Toyin Dorcas Alabi, Aasia Muhammed Jamiu</i>	
Isolation, Characterization and Molecular Identification of Hydrocarbon-Degrading, Biosurfactant Producing Bacteria from Automobile Workshops in Abuja.....	4544
<i>Fatimah Ahmed-Umar, Khadija Mohammed, Olushola Tinuoye, Aasia Muhammed Jamiu</i>	
Nutritional Values and Effects of Selected Solvents on the Phytochemical Properties of <i>Moringa Oleifera</i> Leaves Obtained from Sokoto, Nigeria	4549
<i>Aasia Muhammed Jamiu, Ahmad Salma Gumi, Dorcas Toyin Alabi, Fatimah Ahmed-Umar, Nabila Muhammed Habib, Grace I Adebayo-Gege, Adegunloye Deke Victoria, Ojikh Obianuju, Muftaudeen Taoheed Kolawole, Ogundolie Frank Abimbola</i>	

Nanotechnology in Wastewater and Sewage Management	4556
<i>Frank Abimbola Ogundolie, Salamatu Abubakar</i>	
Insilico Prediction of Antibiotics Resistance in Staphylococcus Aureus from Whole-Genome Sequence of Selected African Countries.....	4562
<i>Titilayo M. Olotu, Salma Gumi Ahmad, Frank Abimbola Ogundolie, Aasia Muhammed Jamiu</i>	
Prevalence of Multidrug-Resistant and Entero-Invasive E. Coli Isolates in Ready-To-Eat Roasted Beef Sold on the Streets of Ibadan Metropolis	4566
<i>Adeniyi Success Ohunayo, Olorunfemi Raphael Molehin, Amos Tomiwa Afolabi, Oluwasegun Sadiq Dauda, Frank Abimbola Ogundolie, Oluwamuyiwa Samuel Alabi</i>	
Non-Proportional Hazard Model Without Frailty and with Frailty Distribution Under Mixtures of Baseline Distribution	4572
<i>Eunice Job, Alfred Abiodun</i>	
How Are Nigerian Universities Combating Climate Change? Insights from Some Institutions	4578
<i>Edidiong Samuel Akpabio, Folakemi Ohunakin, Kehinde Funlayo Akeju, Celestine Okwudili Abasili, Ifeanyi Emmanuel Uzochukwu, Charles Korede Ayo</i>	
Significance of Cattaneo-Christov Theories on the Hybrid Nanofluids (FE3O4-AU/Engine Oil) on the Simultaneous Motion of Casson-Walters-B in the Presence of a Swimming Gyrotactic Microorganisms.....	4583
<i>Lukman O. Ahmed, Bidemi O. Falodun, Nuhu Yunusa</i>	
Starch-Based Composites: An Eco-Friendly Alternative for Food Packaging	4596
<i>Funmilayo Deborah Adewumi, Divine Favour Ogoni, Frank Abimbola Ogundolie, Oluwafemi Ogunmodede, Omolara Peters, Olajumoke Idowu</i>	
Adapting and Domiciling Moodle Lms for Improving Learning Outcome in Digital Electronics at Colleges of Education in North-East Nigeria	4602
<i>Nasiru Aminu</i>	
Comparison of Convolutional Neural Networks, Long Short-Term Memory Networks, and Recurrent Neural Networks for Intrusion Detection System.....	4608
<i>Emmanuel Chinanu Uwazie, Iyere Samuel Iheonkhan, Wasiu Ademola Adenekan, Oghenevovwero Zion Apene</i>	
A Comprehensive Early Detection of Seasonal Plant Diseases Using a Convolutional Neural Network (CNN).....	4615
<i>Aisha Shema, Chandrashekhar Uppin, Gilbert George</i>	
Stack Ensemble Model for Detection of Phishing Website	4623
<i>Hussaini Abdullahi Wabi, Joseph A. Ojeniyi, Ismaila Idris, Sikiru Olanrewaju Subairu</i>	
An Artificial Intelligence-Based Ensemble Technique for Intrusion Detection and Prevention in IoT Systems.....	4629
<i>Paul Olujide Adebayo, Monday Jubrin Abdulahi, Oladayo Morolake Lawrence, Yakubu Aliyu Ibrahim, Silas Ageebee Faki, Bijik Anah Hassan</i>	
Cloud Detection in Satellite Imagery Using Deep Convolutional Neural Networks (CNN).....	4635
<i>Okonkwo Ngozi Ukamaka, Raphael Ozighor Enihe, Abdullahi Monday Jubril</i>	
Comparative Analysis of SVM Kernels for DDOS Attack Detection in SDN	4641
<i>Aishatu Abdullahi Wabi, Ismaila Idris, Amit Mishra, Olayemi Mikail Olaniyi, Joseph A. Ojeniyi, Olawale Surajudeen Adebayo</i>	

Study of Alumina Particles as a Sustainable Reinforcement Material for Aluminium Composite
Manufacturing 4647
*Imhade P. Okokpujie, Olamide F. Olotu, Saheed Akande, Roselyn E. Subair, Anthony O.
Onokwai, Temitayo M. Azeez*

Author Index