

JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES

Index of Volume 24 (2023)

Number 1, January

A. SIROHI AND P. S. JHA : Lasso estimation in parametric frailty model	1–8
D. SETH, P. AGARWAL, A. VASHISHT, D. BANSAL AND P. VERMA : A study on the role of millennials in changing workplace dynamics: How millennials can help businesses move ahead in the post COVID-19 world	9–23
A. K. SRIVASTAVA, H. GUPTA, H. S. SHYAM AND M. GUPTA : The linkage between inflation and economic growth : Evidence from India	25–40
N. ARORA, M. GUPTA, M. DHARWAL AND N. AGARWAL : Luxury adapts to artificial intelligence & digital transformation - A case study of Burberry	41–52
R. MANOCHA, M. DHARWAL AND M. J. ALAM : Impact 4.0 : Envisioning the future of fashion business	53–65
A. MISHRA, R. PRIYADARSHINI AND R. M. MEHRA : Optimized energy clustering routing Protocol-WL	67–80
D. DAS, A. GOGOI AND N. KUMAR : Impact of climate change on agriculture and adaptation: Farmers' experience in North-East India	81–95
K.K. DHAR, P. BHATTACHARYA, N. KUMAR AND A. MITRA : Abnormality detection in chest diseases using a convolutional neural network	97–111
R. P. CHATURVEDI AND U. GHOSE : An effective framework for detecting the object from the video sequences by utilizing deep learning with hybrid technology	113–126

M. M. BARAL, S. MUKHERJEE, R. NAGARIYA, S. K. PAL, V. CHITTIPAKA, R. ROY AND R. SHAIK : Plan of action required for the automobile sectors to deal with disruptions: A resources based and resource dependence view	127–141
B. MUKARIA AND M. GUPTA : Users' risk and problems in digital wallets in India	143–155
S. K. PAL, S. A. MAHMUD, M. M. GUPTA, H. P. SINGH AND R. S. SOLANKI : Estimation of finite population mean in sample surveys: A new estimator	157–169
S. TIWARI, P. AGARWAL AND R. SINGH : The impact of digital transformation on workforce engagement in Indian banking sector	171–178
D. DAS, N. KUMAR, M. AHMED AND D. SARMA : Learning through smartphone during pandemic in Assam, India : Evidence from panel data	179–194

Number 2, March

D. ZHU AND Z. LIANG : On the super (a, d) -H-antimagic total labelings of three graphs	195–205
J. R. TOUSI AND M. GHODS : Computing K Banhatti and K Hyper Banhatti indices of Titania nanotubes $TiO_2[m, n]$	207–216
D. S. REVANKAR, J. B. VEERAGOUDAR AND M. M. PATIL : On the degree sum energy of total transformation graphs of regular graphs	217–229
I. T. J. AHMED, S. M. JOGDAND AND R. A. MUNESHWAR : Some properties of bases intersection graph-I	231–241
S. M. STEFANOV : On the solution of quadratic programming problems	243–253
D. A. MUNOT AND K. P. GHADLE : An innovative way for solving transportation problem using modular arithmetic	255–270
S. N. THORAT, K. P. GHADLE, R. A. MUNESHWAR AND K. L. BONDAR : Geometric meaning and variation of parameter method of modified α -fractional derivative	271–283
M. NAZIM, M. ARIEF, C. W. MOHAMMAD AND M. SADIQ : Generating large dataset for software requirements prioritization and selection under fuzzy environment	285–299

Number 3, April

S. KALRA, C. H. S. KUMAR, Y. SHARMA AND G. S. CHAUHAN : FakeExpose: Uncovering the falsity of news by targeting the multimodality via transfer learning	301–314
V. SAPKAL, P. GUPTA AND A. B. KHAN : Deep learning based phishing website identification system using CNN-LSTM classifier	315–330
S. SHARMA AND B. SHARMA : Optimized data analysis through hybrid approach over trusted security environment	331–340
A. V. CHITRE, K. WANJALE, A. DESHMUKH, S. P. KOSBATWAR, A. INGLE AND S. HUNDEKARI : Artificial intelligence-based classification performance evaluation in monophonic and polyphonic indian classical instruments recognition with hybrid domain features amalgamation	341–353
P. R. NAIDU, A. SHARMA, S. P. DIWAN, V. D. GOWDA, P. M. PANDYA AND A. K. GUPTA : Development of object identification model with deep reinforcement learning algorithm	355–367
P. MUDGIL, P. GUPTA, I. MATHUR AND N. JOSHI : An ontological architecture for context data retrieval and ranking using SVM and DNN	369–382
P. DADHEECH, V. KALMANI, S. R. DOGIWAL, V. K. SHARMA, A. KUMAR AND S. K. PANDEY : Breast cancer prediction using supervised machine learning techniques	383–392
R. K. SHARMA AND M. JAILIA : Machine learning and IoT-based garbage detection system for smart cities	393–406
K. R. CHOWDHARY, R. PUROHIT AND S. D. PUROHIT : Source-to-source translation for code-optimization	407–416
A. KUMARI, R. GOYAL AND S. KUMAR : Analytical study of behavioral dimensions of retail investors towards investment decision making & performance in stock market	417–425
P. KATYARE, S. S. JOSHI AND S. RAJAPURKAR : Real time data modeling for forecasting fuel consumption of construction equipment using integral approach of IoT and ML techniques	427–437

A. SASI AND T. SUBRAMANIAN : Forecasting stochastic consumer portability visitation pattern in fair price shops of India	439–454
N. B. MADHAVI, S. DOHARE, G. N. R. PRASAD, D. V. BABU AND A. R. M. AL-ANSARI : Enhancing the accuracy of breast cancer detection and determination of risk factor by using the backpropagation network theory and SVM: Machine learning	455–465
A. GAUTAM AND R. GOYAL : Mathematical data analytic model for investment patterns assessment in stocks of selected sectors	467–474
G. T. NHINDA AND F. B. SHAVA : Co-CEP: A co-designed community engagement protocol as a catalyst for cybersecurity research in Africa: The case of northern Namibia	475–492
A. KUMARI, R. GOYAL AND S. KUMAR : Mathematical model for analysis of the relationship between personality traits and psychological biases of individual investors	493–503
G. S. KANTH, S. MACHERLA, B. LAXMIKANTHA, K. SAMATHA, K. R. KUMAR AND B. LAL : Generality imaging for optimized face classification using deep learning techniques	505–513
S. KALRA, Y. BANSAL, Y. SHARMA AND G. S. CHAUHAN : FakeSpotter: A blockchain-based trustworthy idea for fake news detection in social media	515–527
D. PANDEY, M. JAIN AND K. PANDEY : An approach for predicting the price of a stock using deep neural network	529–539
L. K. BHURANDA, M. RIZWANULLAH, A. K. SHARMA, K. GAUTAM AND Y. CHAWLA : Stochastic optimization of multi-capacitated vehicle routing problem with pickup and delivery using saving matrix algorithm	541–552
D. PANDEY, K. PANDEY AND B. KANWER : A prediction model for poly-cystic ovary syndrome problem using computational intelligence	553–563
P. AJITHA, T. TAMILVIZHI, K. N. SOWJANYA, R. SURENDRAN AND B. BALA : Consumer product prediction using machine learning	565–574

G. P. SHUKLA, N. BALWANI AND S. KUMAR : Predicting stock prices with LSTM: A hybrid machine learning model for financial forecasting	575–584
G. P. SHUKLA : An empirical study for customer orientation and its impact on hotel industry	585–595
P. PANDAY : Digital marketing in India: Navigating the future with effective strategies and performance metrics	597–606

Number 4, May

A. BOUSSAAD, K. MELKEMI, F. MELGANI AND Z. MOKHTARI : Non-stationary wavelet for ECG signal classification	607–623
T. MALATHI AND P. SENTHILKUMAR : An approach to fuzzy transportation problem using Triakontakaidigon fuzzy number with alpha cut ranking technique	625–635
W. CHEN, X. WU, Z. Y. CHEN, Y. MENG, R. Y. WANG AND T. CHEN : Credit strategy of micro, small, and medium enterprises with known reputation risk: Evidence from a comprehensive evaluation model	637–652
A. D. NAGARGOJE, V. C. BORKAR AND R. A. MUNESHWAR : Analytical solutions and numerical simulation of COVID-19 fractional order mathematical model by Caputo and conformable fractional differential transform method	653–673
M. JHAMB AND M. KUMAR : Optimized vedic multiplier using low power 13T hybrid full adder	675–687
A. İPEK : On eigenvalue, singular value and norm of symmetric matrices	689–696
R. MADAN, S. PATHAK, R. A. MUNESHWAR AND K. L. BONDAR : Some results on the open subset intersection graph of a product topological space	697–707
S. SACHAR AND A. KUMAR : Deep learning for automatic identification of plants through leaf	709–716
S. SACHAR AND A. KUMAR : DCGAN-based deep learning approach for medicinal leaf identification	717–723
S. BHAWIYA ROOPAA, N. KOGILA, C. SRINIVASAN AND P. BALASUBRAMANIAN : A perspective analysis on human resources and suggestive measures to improve their workforce in Indian context	725–732

- H. S. S. AL RUBAYE, A. S. MOHAMMAD, A. KHAN, M. F. ALAM AND M. K. AFZAL : Managing newness of SME startups for increasing customer satisfaction and loyalty 733–744
- H. KOYUNCU : Constrained optimization of engineering design problems: Analyses with Gauss map-based chaotic particle swarm optimization 745–770
- A. HUSAIN AND V. P. VISHVAKARMA : Optimized deterministic multikernel extreme learning machine for classification of COVID-19 chest Xray images 771–793
- M. CHHIKARA AND S. K. MALIK : A recommendation system for online social semantic network using knowledge based, content based and collaborative filtering 795–806

Number 5, July

- R. GANGARDE, A. SHARMA, P. PATEL, G. KAUR, A. RAJGURU, D. THACKER AND M. ANGELO : KILO - Fitness application with posture estimation 807–813
- M. A. MOHAMMED, K. Q. HUSSEIN AND M. D. AL-HASSANI : Efficient and accurate reader, meaning, and recommendation systems for blind persons 815–822
- J. R. TOUSI AND M. GHODS : Calculation of Gourava topological indices in $HAC_5C_6C_7[p, q]$ nanotubes 823–834
- S. RAZAGHI AND S. SAHEBI : Calculating different indices of Idempotent graph of ring $\mathbb{Z}_n$ 835–843
- J. R. TOUSI AND M. GHODS : Calculation of Revan topological indices in $TiO_2[m, n]$ nanotubes 845–854
- S. ALIKHANI AND M. SAFAZADEH : Fair dominating sets of paths 855–864
- S. BODIWALA AND N. NANAVATI : CDIPEM: Cardiovascular disease incidence probability estimation CNN model 865–894
- W. JANTANAN, N. RAIKHAM, P. SINGAVANANDA, A. IAMPAN AND R. CHINRAM : On completely regular 2-duo ordered semihypergroups 895–908
- S. M. STEFANOV : Continuous linear knapsack problems revisited 909–922

C. J. NWEKE, A. U. UDOM, G. C. MBAEYI AND U. E. MICHAEL : Convergence results for stochastic split feasibility problem using Perturbed Mann iterative scheme in Hilbert space	923–936
E. N. IPUMBU AND D. B. GEMECHU : A multinomial logistic regression analysis of factors associated with COVID-19 vaccine hesitancy among Namibian higher education students	937–956
P. D. KHANDARE, S. M. JOGDAND AND R. A. MUNESHWAR : Energy and Wiener index of divisor graph of commutative ring	957–974
I. M. KARTHIKEYAN : Understanding the need for utilizing entrepreneurial opportunities and untapped potentialities in the tourism sector in Tamil Nadu	975–982
P. PRABU, M. ALSULAMI, D. ALSADIE, A. K. J. SAUDAGAR, M. ALKHATHAMI AND R. C. POONIA : Utilizing behavioral deep learning models to monitor and alert physicians regarding trauma cases	983–995
A. KUMAR, N. GUPTA, R. MISRA, S. SHARMA, D. CHAUDHARY AND G. SHARMA : Deep learning based highway vehicles detection and counting system using computer vision	997–1008

Number 6, September

V. WASSON AND B. KAUR : Image quality assessment: Intelligent feature selection using soft computing techniques	1009–1022
Y. N. AHMED, S. P. MOHIDEEN AND M. PASHA : Task scheduling in cloud-fog computing using discrete binary particle swarm meta-heuristic with modified sigmoid function	1023–1033
A. MANGAL, H. GARG AND C. BHATNAGAR : Modified ResNet50 model and semantic segmentation based image co-saliency detection	1035–1042
O. PRAKASH, A. KUMAR AND S. K. BHARTI : Computer virus propagation models: A mathematical review	1043–1055

P. RAWAT, M. BAJAJ, S. VATS AND V. SHARMA : A comprehensive study based on MFCC and spectrogram for audio classification	1057–1074
M. BAJAJ, P. RAWAT, S. VATS, V. SHARMA, S. MEHTA AND B. B. SAGAR : Enhancing patient outcomes through machine learning: A study of lung cancer prediction	1075–1086
G. KHOLIYA, V. SHARMA, S. VATS AND V. GARG : A heuristic based linear time $O(N)$ novel solution to N-Queen problem	1087–1096
A. SINGH, N. PRAKASH AND A. JAIN : A comparative study of metaheuristic-based machine learning classifiers using non-parametric tests for the detection of COPD severity grade	1097–1114
F. AHMAD, A. AHMAD AND V. K. VERMA : Facial emotion recognition using neural networks	1115–1126
A. SHARMA, C. SHARMA, V. SHARMA AND S. VATS : Automatic feature selection using gray-level co-occurrence matrix and detection of mustard plant disease using feed forward neural networks	1127–1138
N. VISHNOI AND R. K. DWIVEDI : An effective adjustment approach of event reliability (EAAER) with mobile sink using shortest path routing for WSN	1139–1149
M. V. GUPTA, R. K. DWIVEDI AND A. KUMAR : Impact analysis of convolutional neural network in classification of satellite imagery	1151–1166
Y. N. AHMED, S. P. MOHIDEEN AND M. PASHA : Enhancing Quality of Service (QoS) and minimizing application placement delay in cloud-fog nodes through meta-heuristic algorithms	1167–1177
N. GUPTA, P. K. JUNEJA, S. SHARMA AND U. GARG : A proposed customized architecture for 5G-IoT based smart healthcare system: 5G-IoT-SHS	1179–1194
Z. MALIK, N. AHMAD AND W. AHMED : Exploring the role of microfinance in encouraging entrepreneurship using unsupervised learning	1195–1202
M. MALIK, A. JOSHI AND G. SAKYA : DC-LEACH: A unique cluster head selection algorithm with improved QoS in real time applications for WSN	1203–1214
G. SAKYA, M. MALIK AND D. SHARMA : An exploration of integration of IoT and 5G networks and a fuzzy approach for clustering to enhance the lifetime of such networks	1215–1227

M. MALIK, A. JOSHI AND G. SAKYA : Application of nature inspired optimization algorithm on hierarchal LEACH protocol for improved performance	1229–1240
R. PALIWAL, S. SRIVASTAVA AND R. BUDDHIRAJA : Band pass filter size reduction by implementing substrate integrated waveguide technique	1241–1250
G. SHOBHA, R. AGARWAL, V. KANSAL AND S. TANWAR : A methodology for model clone detection using statistics of design metrics	1251–1262

Number 7, October

Z. Q. HUANG, C. H. DENG, F. Y. SHANG AND F. ZHANG : Smart structural control and analysis of edge computing power in AI aquaculture	1263–1286
A. HALLAL, M. BELLOUFI AND B. SELLAMI : Using a new hybrid conjugate gradient method with descent property	1287–1302
T. TURACI AND R. DURGUT : On eccentricity-based topological indices of line and para-line graphs of some convex polytopes	1303–1326
P. KUMAR, S. K. SHARMA AND K. U. KADAM : Prolong the lifetime of sensor monitoring system using schedule matrix while employing digital signatures	1327–1346
D. KUMAR, S. K. PACHIGOLLA, S. S. MANHAS AND K. RAWAT : PUF-based user access control scheme for IoT environment	1347–1364
M. R. Z. EL DEEN AND N. A. OMAR : Similar d - even vertex odd mean labeling of diverse graphs	1365–1396
A. GAUTAM AND R. GOYAL : Descriptive statistical analysis of various relationships between Indian stock market and macroeconomic variables: An Indian perspective	1397–1405
Y. T. KUNG, N. C. WEI, M. T. H. TRAN, T. J. LIAO, S. F. LIU AND Y. T. TSENG : Investigation of ERP application based on technology acceptance model in Vietnam	1407–1427
C. Y. LIN, Y. T. TSENG, N. C. WEI, H. C. HSU AND W. T. HUANG : Discussion of the economic benefits of biogas slurry irrigation by analytic hierarchy process (AHP)	1429–1441

- N. WATTANASIRIPONG, N. W. SANGWARANATEE AND C. LEENAWONG : Tourist tram routing problem in Lamphun City, Thailand 1443–1458
- S. SHARMA AND B. SHARMA : Recognize corrupted data packeted while transferring data through ensemble machine learning techniques 1459–1469

Number 8, November

- S. K. SINGH, D. L. KAUR, N. K. BHASIN AND D. KUMAR : Determinants of the customer participation in financial services delivery through technology 1471–1485
- S. SAXENA AND S. VIJ : Factors influencing producers decision to adopt organic food production in Uttarakhand, India : An analysis 1487–1500
- S. K. SINGH, N. K. BHASIN AND D. KUMAR : Unleashing the fintech revolution : Transformative impacts of technology on financial services in the National Capital Region (NCR) 1501–1514
- S. SAXENA AND S. VIJ : Using theory of planned behavior (TPB) examining consumer intention and behavior towards organic food consumption in Uttarakhand, India 1515–1528
- S. SHIRINA, R. BALI, Y. SHARMA, P. SINGH AND S. KADYAN : Exploring the connection among employee performance, employee retention, and employee engagement within higher education institutions (HEIs) 1529–1542
- R. BHATIA, N. K. BHASIN, S. KADYAN AND P. SINGH : Environmental, social, governance (ESG) & sustainable finance : Emergence of new era of investing 1543–1562
- N. ROHILLA, G. VIJH, I. GANGULY, S. K. NAYYAR AND S. BATHLA : The impact of technological innovation on employee performance in Indian IT industry : An empirical study in NCR 1563–1576
- A. SAO, A. GOSWAMI, A. VERMA, R. K. KATARIA AND R. P. SHAHI : Challenges in the adoption of building information technology (BIM) technology in Indian construction industry (ICI) 1577–1593

S. KADYAN, Y. SHARMA, K. AGARWAL, R. GUJRATI AND M. K. KOUL : Linking workplace incivility with employee turnover intention & job satisfaction : The mediating role of self-efficacy of employees in telecom sector in NCR	1595–1611
A. BHARDWAJ, A. NARULA AND A. SHARMA : Analysing consumer online purchase intention in domestic appliance sector : A technology acceptance model approach - An empirical study	1613–1625
S. SINGH, R. AGGARWAL, R. BALI, G. BAPAT AND S. MOHITE : Transformative impact : Online learning evolution in higher education Post-Covid-19 pandemic	1627–1647
A. SAO, A. KUMAR, N. BHASIN, SAVITA AND M. SHARMA : Evolution of online herd behavior of investors in Indian stock market	1649–1664
K. R GOWDA, A. A. KUMAR, V. R. SRINIDHI, R. GUJRATI, H. UYGUN AND U. GULATI : A study on impact of service quality on customer satisfaction with low-cost carriers in India	1665–1684
S. AHUJA AND R. K. TAILOR : Application of robotic process automation in customer satisfaction at toll plazas	1685–1694
K. R. GOWDA, S. BOPANNA, M. ARORA, R. GUJRATI AND H. UYGUN : Brand awareness and its influence on repeat customers in the airline industry	1695–1714
A. Y. MIR, M. ARORA, R. GUJRATI, A. K. JAIN, H. UYGUN AND I. DIXIT : An empirical study on correlation of the factors of the perception : Service delivery & patient satisfaction about service quality in selected public & private hospitals of the Raipur city	1715–1728
R. SHARMA, M. MATHUR, T. KHANNA AND S. MEHMI : Assessing the pertinence of the meta-verse and augmented reality : A bibliometric study and its research implications	1729–1740
M. PURKAYASTHA AND C. S. MAZUMDAR : Influence of customer physical resource on customer loyalty : A mediation study	1741–1763
Index of Volume 44 (2023)	1765–1775