Research Publications in Journals for Assessment Year 2022-2023

S. NO	Dept.	Authors	Title of Published Article	Title of Journal	DOI	Indexing
1	CSE	Dharmender Saini, Narina Thakur, Preeti Nagrath, Rachna Jain, Dharmender Saini, Nitika Sharma, D. Jude Hemanth	Autonomous pedestrian detection for crowd surveillance using deep learning framework	Soft Computing, Springer	https://doi.org/10.1007/s00500-023-08289-4	WoS
2	CSE	Preeti Nagrath,Shatakshi Raman, Vedika Gupta, Preeti Nagrath, and KC Santosh	Hate and Aggression Analysis in NLP with Explainable AI, International Journal of Pattern Recognition and Artificial Intelligence	International Journal of Pattern Recognition and Artificial Intelligence	https://doi.org/10.1142/S0218001 422590364	WoS
3	CSE	Preeti Nagrath, Rachna Jain, Drishti Agarwal, Gopal Chaudhary, and Tianhong Huang	Toward design and implementation of self-balancing robot Using deep learning	Journal of Circuits, Systems and Computers, World Sceintific	https://doi.org/10.1142/S0218126 623502602	WoS
4	CSE	Preeti Nagrath,Pranav Pushkar, Christo Ananth, Preeti Nagrath, Jehad F. Al-Amri, Vividha, Anand Nayyar	Mutation prediction for coronaviruses using genome sequence and recurrent neural networks	Computers, Materials & Continua, Tech Science Press	https://doi.org/10.32604/cmc.2022 .026205	WoS
5	CSE	Deepika Kumar,Varun Srivastava, Deepika Kumar, Sudipta Roy	A median based quadrilateral local quantized ternary pattern technique for the classification of dermatoscopic images of skin cancer	Computers and Electrical Engineering, Elsevier	https://doi.org/10.1016/j.compelec eng.2022.108259	WoS
6	CSE	Deepika Kumar,Chetan Madan, Harshita Diddee, Deepika Kumar, Manta Mittal	CodeFed: Federated Speech Recognition for Low-Resource Code-Switching Detection	ACM Transactions on Asian and Low-Resource Language Information Processing, ACM digital library	https://doi.org/10.1145/3571732	WoS
7	CSE	Deepika Kumar,Vaibhav Gulati, Deepika Kumar, Daniela Elena Popescu, Jude D. Hemanth	Extractive Article Summarization Using Integrated TextRank and BM25+ Algorithm	Electronics . MDPI	https://doi.org/10.3390/electronic s12020372	WoS
8	CSE	Hemant B. Mahajan,Dr. Aparna Junnarkar,Mohit Tiwari;Tripti Tiwari;Dr. Makarand Upadhyaya	LCIPA: Lightweight clustering protocol for industry 4.0 enabled precision agriculture	Microprocessors and Microsystems, Science direct	https://doi.org/10.1016/j.micpro.2 022.104035	WoS

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9	CSE	D. Kamalakkannan, D. Menaga, S. Shobana, K. V. Daya Sagar, R. Rajagopal & Mohit Tiwari	A Detection of Intrusions Based on Deep Learning	Cybernetics and Systems , Taylor Francis	https://doi.org/10.1080/01969722.2023.2175134	WoS
10	CSE	Vishal Sharma	Systematic literature review on predictive maintenance of vehicles and diagnosis of vehicle's health using machine learning techniques	Computatotional Intelligence , Wiley	https://doi.org/10.111/coin.12553	WoS
11	CSE	Srishti Vashishtha, Vedika Gupta, Mamta Mittal	Sentiment analysis using fuzzy logic: A comprehensive literature review	WIREs, Data Mining and Knowledge discovery	https://doi.org/10.1002/widm.1509	WoS
12	CSE	Vedika Gupta, Harshit Gaur, Srishti Vashishtha, Uttima Das, Vivek Kumar Singh, D. Jude Hemanth	A fuzzy rule-based system with decision tree for breast cancer detection	IET Image Processing	https://doi.org/10.1049/ipr2.12774	WoS
13	ECE	Damyanti Singh, Neeta Pandey, **Kirti Gupta**	Process Variant Schmitt Trigger Non- volatile 13T1M SRAM cell	Microelectronics Journal, Elsevier	https://doi.org/10.1016/j.mejo.2023.105773	WoS
14	ECE	Damyanti Singh, Neeta Pandey, **Kirti Gupta**	Schmitt Trigger 12T1M Non-volatile SRAM Cell with Improved Process Variation Tolerance	AEU - International Journal of Electronics and Communications, Elsevier	https://doi.org/10.1016/j.aeue.2023.154573	WoS
15	ECE	Surjeet Balhara, Nishu Gupta, Ahmed Alkhayyat, Isha Bharti, Rami Q. Malik, Sarmad Nozad Mahmood, Firas Abedi	A survey on deep reinforcement learning architectures, applications and emerging trends	IET Communications, Wiley	DOI: 10.1049/cmu2.12447	WoS
16	ECE	**Monica Bhutani** , Brejesh Lall , Monika Agrawal	Optical Wireless Communications: Research Challenges for MAC Layer	IEEE Access	10.1109/ACCESS.2022.3225913	WoS
17	ECE	**Priyanka Gupta**, Surbhi, Yashika Aggarwal, Utkarsh Singh, and Shruti Arya	A New Adaptive Biased Voltage Differencing Transconductance Amplifier	Journal of Circuit, Systems and Computers, World Scientific	10.1142/S0218126624500233	WoS
18	ECE	Rishit Jain, Revant Singh Rai, Sajal Jain, Ruchir Ahluwalia and **Jyoti Gupta**	Real time sentiment analysis of natural language using multimedia input	Multimedia Tools and Applications, Springer	10.1007/s11042-023-15213-3	WoS

Sr No	Dept	Authors	Title	Journal	DOI/Link	Indexing
19	ECE	**Annu Dabas**, Maneesha Gupta, Richa Yadav, **Shweta Kumari**	Design and Analysis of High-Performance Double Recycling Folded Cascode Operational Transconductance Amplifier. *Iranian Journal of Science and Technology; Transaction in Electronics Engineering* May 2023	Iranian Journal of Science and Technology, Transaction in Electronics Engineering, Springer	https://doi.org/10.1007/s40998-023-00604-x	WoS
20	ECE	Annu Dabas, Shweta Kumari, Maneesha Gupta, Richa Yadav	Design and analysis of DTMOS based RFC with controlled positive feedback OTA using HSCCM and adaptive biasing technique, Integration, Vol-90, page-90-103 May 2023	Integration (the VLSI Journal), Elsevier	https://doi.org/10.1016/j.vlsi.2023.01.012	WoS
21	ECE	**Annu Dabas**, Richa Yadav, Maneesha Gupta	Improved performance recycling folded cascode OTA using multipath positive feedback and pseudo differential pair for biasing, Sadhana, 47, 162, Aug 2022	Indian Academy Of Sciences	https://doi.org/10.1007/s12046-022-01907-1	WoS
22	ECE	Ms.Shikha, Dr. Kirti Gupta	Memristor-Based Architectures for PFSCL Circuit Realizations	Circuit, Systems and Signal Processing, Springer	https://doi.org/10.1007/s00034-023-02346-x	WoS
23	ECE	Rubeena Vohra, KC Tiwari	Land cover classification using multi-fusion based dense transpose convolution in fully convolutional network with feature alignment for remote sensing images.	Earth Science Informatics, Springer	Earth Science Informatics	WoS
24	ECE	**Rubeena Vohra**, KC Tiwari	Analysis of land use and land cover changes and their impact on temperature using landsat satellite imageeries	Environment, Development and Sustainbility, Springer	DOI:10.1007/s106668-022-02416-1	WoS
25	ECE	**Sourabh rana**, Dr. priyanka jain	Design of low profile high gain wideband circlarly polarized low RCS single layer metasurface antenna charactersitics mode anlysis	International Journal of Microwave and Wireless Technologies, Cambrige University	DOI: https://doi.org/10.1017/S1759078723000144	WoS
26	ECE	**Yogita Arora**, Bhawna Aggarwal, Jasdeep kaur	Analysis of Self-Bias Current Reference with BJT and its Application in Flipped Voltage Follower	Iranian Journal of Science and Technology, Transaction in Electrical Engineering, Springer	https://doi.org/10.1007/	WoS
27	ECE	**Avinash** & Nisha Gupta	"Screen-Printed Wideband Absorber for the and Ku Bands"	IEEE Transactions on Electromagnetic Compatibility,	10.1109/TEMC.2022.3180745	WoS
28	ECE	**Avinash** & Nisha Gupta	Low-Cost Electromagnetic Absorbers for Shield Packaging	IEEE Transactions on Components, Packaging and Manufacturing Technology	10.1109/TCPMT.2023.3265706	WoS
29	ECE	**Rajiv Kumar Nehra**, N.S Raghava	Compact Dual-Band Zig Zag Shaped ImplantableAntenna for Biomedical Devices	Indian Journal of Pure & Applied Physics	10.56042/ijpap	WoS
30	ECE	**Rajiv Kumar Nehra**, N.S Raghava	Improved performance of highly compact CP implantable antenna using slots	International Journal of Electronics, Springer	https://...2023.217809	WoS

No.	Department	Author	Title	DOI/ISSN	Indexing
31	Applied Sciences	Dr.Sushil Kuamr	The Third Hermitian-Toeplitz and Hankel Determinants for Parabolic Starlike Functions	DOI:10.4134/BKMS.b210368	WoS
32	Applied Sciences	Dr.Sushil Kuamr	Hermitia-Toeplitz and Hankel Determinants for Starlike Functions Associated with a Rational Function	ISSN 1880-5221	WoS
33	Applied Sciences	Dr. Amit Sharma	Additive engineering with sodium azide material for efficient carbon-based perovskite solar cells	DOI:10.1039/d3nj00837a	WoS
34	Applied Sciences	Dr. Amit Sharma	Cetrimonium bromide and potassium thiocyanate assisted post-vapor treatment approach to enhance power conversion efficiency and stability of FAPbI3 perovskite solar cells	DOI:10.1039/d2ra07349h	WoS
35	Applied Sciences	Dr. Amit Sharma	Efficient and stable perovskite solar cells by interface engineering at the interface of electron transport layer/perovskite	DOI:10.1016/j.optmat.2022.11284 6	WoS
36	Applied Sciences	Dr.Amit Sharma	Performance and Stability enhancement of mixed dimensional bilayer inverted perovskite (BA2PbI4/MAPbI3) solar cell using drift-diffusion model	DOI:10.1016/j.scp.2022.100807	WoS
37	Applied Sciences	Dr.Nitu Sehrawat	Organytellurium(IV) complexes incorporating Schiff base ligand derived from 2-hydroxy-1-naphthaldehyde: Preparation, Spectroscopic investigations, antimicrobial, antioxidant, DFT, MESP, NBO, molecular docking and ADMET evaluation	http://doi.org/10.10.16/j.molstruc. 2023135590	WoS
38	Applied Sciences	Dr.Charu Arora	Mathematical Modelling to Predict the Effect of Vaccination on Delay and Rise of COVID-19 Cases Management, Mathematics Journal, 11 (4)	https://doi.org/10.3390/math1104 0821	WoS
39	Applied Sciences	Dr.Charu Arora	Optimal Control Strategies to cope with Unemployment during the Covid-19 Pandemic.	https://doi.org/10.1007/s40995-023-01469-9	WoS
40	Applied Sciences	Dr.Sumit Chawla	Modelling and Simulation of Crankcase Cover Manufacturing in the Automobile Industry	DOI: 10.5004/sir.v82i06.1816	WoS
41	Applied Sciences	Dr.Pidugu Trisandhya	Evaluating the Effect of Measurement Error Under Randomized Response Techniques of the Sensitive Variable in Successive Sampling		WoS

No.	Department	Author	Title	Journal	ISSN/DOI	Indexing
42	Applied Sciences	Dr.Shushil Kumar	Bound on Hankel determinants H(2)4 (f) and H(3)4 (f) for Lemniscate starlike functions	Honam Math. J.	45 (2023), No. 1, pp. 92-108	WoS
43	Applied Sciences	Dr.Lalit Batra	Multi-response optimization of FSW process parameters of dissimilar aluminum alloys of AA2014 and AA6061 by response surface methodology (RSM)	International Journal on Interactive Design and Manufacturing (IJIDeM)	Print ISSN 1955-2513	WoS
44	EEE	Dr.Kusum Tharani, Dr.Sandeep Banerjee	Investigation on Modelling and Control of Induction Machine	Journal of Climate Change	10.3233/JCC230007	WoS
45	EEE	Dr.Abhishek Gandhar	Internet of Things Based Pest and Growth Management System Using Natural Pesticides & Fertilizers For Small Scale Organic Farming	Journal of Pharmaceutical Negative Results	https://doi.org/10.47750/pnr.2022.13.S09.1017	WoS
46	EEE	Dr.Abhishek Gandhar	Herpetology A Stacked Circularized Microstrip Antenna with Semi-Circle Slot for ISM (Industrial, scientific and Medical) Band	BioGecko, A Journal for New Zealand	Vol 12, Issue 03, PP:5841-5844, ISSN NO: 2230-5807	WoS
47	EEE	Mrs.Shashi Gandhar	A Comparative Approach On Enhancing Lifetime Of Wireless Sensor Networks.	Journal of Pharmaceutical Negative Results	https://www.pnrjournal.com/index.php/home/article/view/4684	WoS
48	EEE	Dr.Sandeep Banerjee	Affordable Water Quality Monitoring System Using IOT RC Boat	Journal of Instrumentation and Innovation Sciences	https://matjournals.co.in/index.php/JIIS/article/view/843	WoS
49	ICE	Dr. Saket Gupta	Review of sub-synchronous interaction in wind integrated power systems: classification, challenges, and mitigation techniques	Protection and Control of Modern Power Systems, Springer	https://doi.org/10.1186/s41601-023-00291-0	WoS
50	ICE	Dr. Saket Gupta	Mathematical Modelling to Predict the Effect of Vaccination on Delay and Rise of COVID-19 Cases Management	Mathematics, MDPI	https://doi.org/10.3390/math11040821	WoS
51	IT	Arun Kumar Dubey	Ensemble Deep Learning Derived from Transfer Learning for Classification of COVID-19 Patients on Hybrid Deep-Learning-Based Lung Segmentation: A Data Augmentation and Balancing Framework	Diagnostics,MDPI	https://doi.org/10.3390/diagnostics 13111954	WoS
52	IT	Poras Khetarpal	Power Quality Disturbances Detection and Classification Based on Deep Convolution Auto- Encoder Networks	IEEE ACCESS	IEEE ACCESS	WoS
53	IT	Poras Khetarpal	Mathematical Modelling to Predict the Effect of Vaccination on Delay and Rise of COVID-19 Cases Management	Mathematics,MDPI	Mathematics,MDPI	WoS

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54	IT	Mahesh Kumar & Devender Kumar	An Efficient Gravitational Search Decision Forest Approach for Fingerprint Recognition	The Kuwait Journal of Science	https://doi.org/10.48129/kjs.20635	WoS
55	IT	Mahesh Kumar & Devender Kumar	A hybrid approach of gravitational search algorithm and ant miner plus for Fingerprint recognition	International Journal of Modern Physics , World Scientific	10.1142/S0129183123500444	WoS
56	IT	Sanjay Saxena a 1, Biswajit Jena b 1, Bibhabasu Mohapatra a, Neha Gupta c, Manudeep Kalra d, Mario Scartozzi e, Luca Saba e, Jasjit S. Suri	Fused deep learning paradigm for the prediction of o6-methylguanine-DNA methyltransferase genotype in glioblastoma patients: A neuro-oncological investigation	Computers in Biology and Medicine	https://doi.org/10.1016/j.compbiomed.2022.106492	WoS
57	IT	Gopal S. Tandel 1ORCID,Ashish Tiwari 2,Omprakash G. Kakde 3ORCID,Neha Gupta 4,Luca Saba 5 andJasjit S. Suri 6	Role of Ensemble Deep Learning for Brain Tumor Classification in Multiple Magnetic Resonance Imaging Sequence Data	Diagnostics,MDPI	https://doi.org/10.3390/diagnostics13030481	WoS
58	IT	Biswajit Jena 1ORCID,Sanjay Saxena 1ORCID,Gopal Krishna Nayak 1,Antonella Balestrieri 2,Neha Gupta 3,Narinder N. Khanna 4,John R. Laird 5,Manudeep K. Kalra 6,Mostafa M. Fouda 7ORCID,Luca Saba 2 andJasjit S. Suri 8	Brain Tumor Characterization Using Radiogenomics in Artificial Intelligence Framework	Cancers, MDPI	https://www.mdpi.com/2072-6694/14/16/4052	WoS
59	IT	Neha Gupta	Machine Learning in Healthcare Cybersecurity: Role of Human Activity Recognition and Impact of 6G in Smart Healthcare	Tylor and Francis	https://doi.org/10.1201/9781003320332	WoS
60	IT	Poras Khetarpal	Power quality disturbance classification taking into consideration the loss of data during pre-processing of disturbance signal	IEEE ACCESS	http://dx.doi.org/10.1016/j.epsr.20 23.109302	WoS
61	IT	Poras Khetarpal	Classification of Power Quality Disturbances Using Semi-supervised Deep Belief Networks	Journal of Electrical Engineering & Technology, Springer	http://dx.doi.org/PRENQDIPA42835-023-01433-4	WoS
62	IT	Payal Malik, Ankit Vidyarthi	A Computational Deep Fuzzy Network-Based Neuroimaging Analysis for Brain Hemorrhage Classification	IEEE J Biomed Health Inform	10.1109/JBHU.2023370492	WoS

No.	Dept	Author(s)	Title	Journal	DOI/Link	Indexing
63	IT	Payal Malik, Ankit Vidyarthi	A deep learning assisted image-guided framework for differentiation among tumors and hemorrhages in head imaging	Computers and Electrical Engineering	https://doi.org/10.1016/j.compeleceng.2022.108330	WoS
64	IT	Dr. Prakhar Priya darshi	A Stacked Circularized Microstrip Antenna with Semi Circle Slot for ISM	A journal for New Zealand Herpetology	ISSN : 2230-5807	WoS
65	CSE	Jolly Parikh	Enhanced Deep Learning Network for Emotion Recognition from GIF'	International decision Technologies 17(2023)	https://content.iospress.com/articles/intelligent-decision-technologies/idt220158 DOI: 10.3233/IDT-220158	SCOPUS
66	CSE	Deepika Kumar	A hierarchical clustering approach for identification of colorectal cancer molecular subtypes from gene expression data	Journal of intelligent medicine	https://doi.org/10.1016/j.imed.2023.04.002	SCOPUS
67	CSE	Nitasha Rathore	6G Network Anomaly Detection in Task Offloading and Scheduling in Multi-Robotic Path Planning Communication Based Ids Network Using Quantum Machine Learning and Liquid Neural Network	Harbin Engineering Journal	https://harbinengineeringjournal.com/index.php/journal/article/view/670	SCOPUS
68	CSE	Aarti	SECURITY ISSUES AND OPTIMAL APPROACHES FOR MOBILE AD HOC	JOURNAL OF AERONAUTICAL MATERIALS	https://www.hkclxb.cn/article/view/2023/144.html	SCOPUS
69	ECE	Ashutosh Dubey, Chirag Keshri, Divya Arora, Poornima Suryvanshi, **Monica Bhutani**	Optimization of Traffic Lights Using OpenCV technology	Research and Applications emerging technology	https://doi.org/10.5281/zenodo.7546260	SCOPUS
70	ECE	Mohit Tiwari , Shashi Gandhar , **S B Kumar** ,ArvindRehalia ,Sunil Gupta	A Comparative Approach On Enhancing Lifetime Of Wireless Sensor Networks,	Journal of Pharmaceutical Negative Results, PP 1291-1299,Vol:13.Issue:07	https://doi.org/10.47750/pnr.2022.13.S07.189	SCOPUS
71	ECE	Anil Kumar Bhardwaj, Amit Kant Pandit, Arvind Rehalia, Vikram Singh and **Ruchi Sharma**	A review on nanomaterials for drug delivery systems and application of carbon based nanomaterials	ES Material and manufacturing	10.30919/esmm5f824	SCOPUS
72	ECE	Chauhan A, Chopra D, Tayal L, Singal U, **Gupta K**, Gupta M	Design of an Efficient Memristor-based Dynamic Exclusive-OR gate	International journal of computer and communication technology	DOI:10.47893/IJCCT.2022.1428	SCOPUS
73	ECE	Aahn Deshpande, Shubham Kumar, Kalash Butola, Harshit Pandey, **Jyoti Gupta**	Automated Eye Diseases Recognition Web-Application Using Convolutional Neural Networks	Advancement in image processing and pattern recognition	https://doi.org/10.5281/zenodo.7845022	SCOPUS

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74	ECE	Achyut Krishna, Parag Kumar, Yash Varshney, Piyush Anand and **Saji M Antony**	Li-Fi Based Short Range Text Messenger, Journal of Optoelectronics and Communication, vol. 5, Issue 2 ,July 2023	Journal of optoelectronics and communications	https://doi.org/10.5281/zenodo.81 98606	SCOPUS
75	Applied Sciences	Dr.Shushil Kumar	Coefficient inequalities for a subfamily of Sakaguchi functions	Asian-Eur. J. Math.	10.1142/S1793557123500845	SCOPUS
76	Applied Sciences	Dr.Shushil Kumar	Starlike functions associated with tanh z and Bernardi integral operator,	American Institute of Mathematical Sciences	doi/10.3934/mfc.2022032	SCOPUS
77	Applied Sciences	Dr.Shushil Kumar	Normalized analytic functions with fixed second coefficient	The Journal of Analysis	10.1007/s41478-022-00544-5	SCOPUS
78	Applied Sciences	Dr.Shushil Kumar	Sharp estimates on Hermitian–Toeplitz Determinant for Sakaguchi classes, Commun	Korean Mathematical Society	doi=10.4134/CKMS.c210332	SCOPUS
79	Applied Sciences	Dr.Shushil Kumar	Coefficient functionals and radius problems of certain starlike functions	Asian-European Journal of Mathematics	10.1142/S1793557122500899	SCOPUS
80	Applied Sciences	Dr.Kaushal Sharma	Developing English Communication Skills in a Different Cultural Context	International Journal of Interdisciplinary Organizational Studies	http://dx.doi.org/10.18662/rrem/20 15.0701.12	SCOPUS
81	Applied Sciences	Dr.Kaushal Sharma	A Detailed Examination of How ICTcan helpin meeting Standards in ELTL	International Journal of Interdisciplinary Organizational Studies	ISSN:2324-7657	SCOPUS
82	Applied Sciences	Dr.Vandita Sharma	A study on common grammetical error on spoken english at undergraduate level in India	IJFANS International Journal of Food and Nutritional Sciences	DOI: 10.48047/IJFANS/S1/118	SCOPUS
83	Applied Sciences	Dr.Saurabh Kumar Agrawal	On the Synchronization of a novel fractional order chaotic system using nonlinear control method	Discontinuity, Nonlinearity, and Complexity	DOI: 10.5890/DNC.2023.09.014	SCOPUS
84	Applied Sciences	Dr.Mohit Dayal	Block-Hash Signature (BHS) for Transaction Validation in Smart Contracts for Security and Privacy using Blockchain	JournalOf Mobile Multimedia	https://doi.org/10.13052/jmm1550-4646.1941	SCOPUS
85	Applied Sciences	Dr.Saurabh Kumar Agrawal	Synchronization betweenFractional Order Logistic model and Financial Model in supply chain Context	Discontinuity, Nonlinearity, and Complexity	ISSN:2164-6376 (print) ISSN:2164-6414 (online)	SCOPUS
86	EEE	Dr.NeerajKumar	Insincere Questions Classification using CNN with increased Vocabulary Coverage of GloVe Embedding	Journal of The Institution of Engineers (India): Series B	10.1007/s40031-023-00883	SCOPUS
87	EEE	Dr.Bharat Singh	Dual Axis Solar Tracking System using LDR with Inverter	International Journal of All Research Education and Scientific Methods (IJARESM)		SCOPUS

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88	IT	Surinder Kaur, Javalkar Dinesh Kumar, Gopal Chaudhary & Manju Khari	Breast Cancer Detection Using Deep Learning and Feature Decision Level Fusion	Fusion: Practice and Applications (FPA) 105,	https://doi.org/10.54216/FPA.080	SCOPUS
89	IT	Tavleen K. Nagi, Abhishek Tomar, Deepanshi Jain & Surinder Kaur	Identification of Cardiovascular Disease Patients	Fusion: Practice and Applications (FPA) 101,	https://doi.org/10.54216/FPA.100	SCOPUS
90	IT	Ajay Dureja, Aman Dureja, Suman & Payal Pahwa	Real-time load balancing and dynamic profile management in mobile data networks	International Journal of Vehicle Information and Communication Systems	accepted	SCOPUS
91	IT	Vaishali Sharma, Nitesh Nagpal, Ankit Shandilya, Aman Dureja and Ajay Dureja	A Practical Approach to detect Indoor and Outdoor Scene Recognition" in International Conference on Information Management & Machine Intelligence	ACM Digital Library	https://doi.org/10.1145/3590837.3590923	SCOPUS
92	IT	Arun Kumar Dubey,Gautam Gupta, Prachi Aggarwal, Achin Jain, Puneet Singh Lamba, Gopal Chaudhary	Crime Anomaly Detection using CNN and Ensemble Model	Fusion: Practice and Applications (FPA) 107	https://doi.org/10.54216/FPA.110	SCOPUS
93	IT	Abhishek Gandhar, Mohit Tiwari, Tripti Tiwari, Sunil Gupta, Arvind Rehalia	Internet of Things Based Pest and Growth Management System Using Natural Pesticides & Fertilizers For Small Scale Organic Farming	NeuroQuantology	DOI: 10.14704/NQ.2022.20.15.NQ8858 1	SCOPUS
94	IT	Mohit Tiwari, ShashiGandhar, S B Kumar, Arvind Rehalia, Sunil Gupta	A Comparative Approach On Enhancing Lifetime Of Wireless Sensor Networks	Journal of Pharmaceutical Negative Results	DOI: 10.47750/pnr.2022.13.S07.189	SCOPUS
95	IT	Anil Kumar Bhardwaj, Amit Kant Pandit, Arvind Rehalia, Vikram Singh, and Ruchi Sharma	A review on nanomaterials for drug delivery systems and application of carbon based nanomaterials	ES Materials & Manufacturing	doi : 10.30919/esmm51824	SCOPUS
96	IT	V. Jain, Ap. Jain, V. Garg, Achin Jain, M. Demirci, M.C. Taplamacioglu	SIAMESE NEURAL NETWORKS FOR PANDEMIC DETECTION USING CHEST RADIOGRAPHS	International Journal on "Technical and Physical Problems of Engineering" (IJTPE)	ISSN 2077-3528	SCOPUS
97	IT	V. Jain, Y. Jain, H. Dhingra, Achin Jain. M. Demirci, M.C. Taplamacioglu	DYNAMIC VISUALIZATION OF AN IMAGE FOR INTERACTIVE ACTIONS	International Journal on "Technical and Physical Problems of Engineering" (IJTPE)	ISSN 2077-3528	SCOPUS

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98	IT	Achin jain,Puneet Singh	Multimodel Driver Drowsiness Detection From Video Frames	Journal of Mobile Multimedia	DOI: https://doi.org/10.13052/jmm1550-4646.19210	SCOPUS
99	IT	Sarita yadav	Performance analysis of a dual-hop parallel relayed mixed FSO-UWOC system	journal of OPTICAL COMMUNICATION	https://doi.org/10.1515/joc-2023-0054	SCOPUS
100	IT	Dr. Amarjit R Deshmukh, Dr. Arvind Rehalia	CASE STUDY - DISTANCE EDUCATION AND ICT	Journal of the astatic society of mumbai	ISSN-0972-0066	UGC CARE 1
101	IT	Dr. Amarjit R Deshmukh, Dr. Arvind Rehalia	ICT AND DISTANCE EDUCATIONS - LITERATURE REVIEW	Madhya-Bharati Humanities and social science	ISSN-0972-0066	UGC CARE 1
102	CSE	Amrita,Ms Rachna Narula, Mr Vijay	Kidney Failure prediction at an early stage using machine learning: A comparative study	International Journal of Scientific development and research	ISSN-2455-2631, Volume 7 issue 12	UGC CARE-1
103	CSE	Amrita,Ms Rachna Narula, Mr Vijay	HAND SIGN (ISL) RECOGNITION MODEL FOR ALPHABETS USING CNN MODEL	International Journal for Research Trends and Innovation	ISSN: 2456-3315, Volume 7, Issue 12	UGC CARE-1
104	CSE	Amrita	Analysis of new differential evolution variants to solve multi-modal problems	IAES IAES International Journal of Artificial Intelligence (IJ-AI)	ISSN/e-ISSN 2089-4872/2252-8938	UGC CARE-1
105	CSE	Rachna Narula,Mr Vijay	An Empirical Study on Speech Recognition Using Machine Learning	Journal Of Electronics Information Technology Science And Management	ISSN NO : 0258-7982, VOLUME 13, ISSUE 1, 2023	UGC CARE
106	CSE	Aarti	EXPLORING THE PREDICTIVE POWER OF FINANCIAL DATA	INTERNATIONAL JOURNAL OF ENGINEERING APPLIED SCIENCES AND TECHNOLOGY(UGC CARE-1)	https://www.ijeast.com/papers/86-95,%20Tesma0712,IJEAST.pdf	UGC CARE
107	ECE	**S.B Kumar**, Prakhar Priyadarshini, Abhishek Gandhar	A stack circularised microstrip antenna with semi circle slot for ISM (industrial,scientific,and medical) Band	BioGecko, A Journal for New Zealand Herpetology		UGC CARE
108	ECE	Dr.Ruchi Sharma, Dr Gaurav	Carbon Nanotubes as Interconnects: A Short Review on Modelling and Optimization, 3rd Intl Conference on Information Technology InCITe 2023,2-3 Mar 2023	3rd Intl Conference on Information Technology InCITe 2023		UGC CARE
109	ECE	Aditi Sharma,Sanskar Singhal,Akshit Mehta,B N Reddy,**Gaurav Mitra**	Detection of Earthquake and Tsunami Through GSM Network	Journal of emerging technology and innovative research		UGC CARE
110	ECE	Harsh Jain, Kartik Kumar, Parth Khandelwal, Raghav Agarwal, **Mihika Mahendra**	Design of Low-Power High-Performance Operational Transconductance Amplifier	Journal of emerging technology and innovative research		UGC CARE

No.	Dept.	Author(s)	Title	Journal/Conference	DOI/ISSN/Link	Type
111	Applied Sciences	Dr Kaushal sharma,Dr. Vandita Sharma, Dr Lalit, Dr Jyoti	Edger Allen Poe: An Unsung Poet		(ISSN:2319-7137)	UGC CARE
112	ICE	Dr. Aarti, Dr Manish Talwar	Peformance of Solar Photovoltaic system under partial shading conditions using an improved cuckoo search algorithm	CPIE 2023		Other
113	ICE	Dr. Aarti, Dr Manish Talwar	IOT based smart plant monitoring system	CPIE 2023		Other
114	ICE	Dr. Sangeeta Gupta, Dr. Saket Gupta, Ms.Ritambhra Katoch	Impact of the Integration of Renewable Energy Source on Optimal PowerFlow	ICAMET 2023		Other
115	ECE	Dr. Shweta Kumari	Low voltage high transconductance voltage differencing transconductance amplifier and its application in Biquad Order filter,	Thirteen International Joint Conference on Advance in Engineering and technology, AET 2022,		Other
116	ECE	Dr.Shweta Kumari	A class AB Current Controlled Second Generation Voltage Conveyor Using self Cascode Current Mirror,	Thirteen International Joint Conference on Advance in Engineering and technology, AET 2022		Other
117	ECE	Dr.Shweta Kumari	Design and Analysis of High Bandwidth RGC Transimpedance Amplifier Using Differential Tunable Active Inductor, Thirteen International Joint Conference on Advance in Engineering and technology, AET 2022, 28 Dec2022	Thirteen International Joint Conference on Advance in Engineering and technology, AET 2022		Other
118	CSE	Mohit Tiwari	Detection of Malicious Cloud Bandwidth Consumption in Cloud Computing Using Machine Learning Techniques	Pubmed,ACM	https://doi.org/10.1155/2022/4003403	Refreed Journal
119	EEE	Dr.Sandeep Sharma	Renewable Foresight: A Cloud based AI-Driven Software Solution for Renewable Power Estimation	International Journal of All Research Education and Scientific Methods (IJARESM),	http://www.ijaresm.com/uploaded_files/document_file/Ayushmaan_Chauhan_(1)02GO.pdf	Refreed Journal
120	ICE	Dr. Aarti	A Review of the Thermoelectric Generation for Technological up-gradation for Enhancement of Acceptability as Alternate energy source	GRADIVA REVIEW JOURNAL	DOI:10.37897.GRJ.2022.V818.22.50185	Refreed Journal

ADVANCED REVIEW

Sentiment analysis using fuzzy logic: A comprehensive literature review

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Abstract

Understanding and comprehending humans' views, beliefs, attitudes, or opinions toward a particular entity is sentiment analysis (SA). Advancements in e-commerce platforms has led to an abundance of the real-time and free forms of opinions floating on social media platforms. This real-world data are imprecise and vague hence fuzzy logic is required to deal with such subjective data. Since opinions can be fuzzy in nature and definitions of opinion words can be elucidated differently; fuzzy logic has witnessed itself as an effective method to capture the expression of opinions. The study presents an elaborate review of the around 170 published research works for SA using fuzzy logic. The primary emphasis is focused on text-based SA, audio-based SA, and fusion of text-audio features-based SA. This article discusses the various novel ways of classifying fuzzy logic-based SA research articles, which have not been accomplished by any other review article till date. The article puts forward the importance of SA tasks and identifies how fuzzy logic adds to this importance. Finally, the article outlines a taxonomy for sentiment classification based on the technique-supervised and unsupervised in the SA models and comprehensively reviews the SA approaches specific to their task. Prominently, this study highlights the suitability of fuzzy-based SA approaches into five different classes vis-a-vis (a) Sentiment Cognition from Words using fuzzy logic, (b) Sentiment Cognition from Phrases using fuzzy logic, (c) Fuzzy-rule based SA, (d) Neuro-fuzzy network-based SA, and (e) Fuzzy Emotion Recognition.

This article is categorized under:

  Algorithmic Development > Text Mining
  Fundamental Concepts of Data and Knowledge > Motivation and Emergence of Data Mining

1 | INTRODUCTION

The advancement and intervention of digital technologies in human life have made it difficult to imagine life without Internet. Also, the Internet today has extended its reach to far-flung areas with improved connectivity. Any person with

THE THIRD HERMITIAN-TOEPLITZ AND HANKEL DETERMINANTS FOR PARABOLIC STARLIKE FUNCTIONS

Rosihan M. Ali, Sushil Kumar, and Vaithiyanathan Ravichandran

In memoriam QMH Professor M. Ataharul Islam

ABSTRACT. A normalized analytic function f is parabolic starlike if $w(z) := zf'(z)/f(z)$ maps the unit disk into the parabolic region $\{w : \operatorname{Re} w > |w - 1|\}$. Sharp estimates on the third Hermitian-Toeplitz determinant are obtained for parabolic starlike functions. In addition, upper bounds on the third Hankel determinants are also determined.

1. Introduction and main theorems

Let $\mathcal{A}$ be the class consisting of normalized analytic functions $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ in the unit disk $\mathbb{D} := \{z \in \mathbb{C} : |z| < 1\}$. For two natural numbers q and n, the qth Hankel determinant $H_q(n)$ associated with f is defined by $H_q(n) := \det\{a_{n+i+j-2}\}_{i,j}^q$, $1 \le i, j \le q$, $a_1 = 1$. Thus

$$(1) \qquad H_q(n) := \begin{vmatrix} a_n & a_{n+1} & \cdots & a_{n+q-1} \\ a_{n+1} & a_{n+2} & \cdots & a_{n+q} \\ \vdots & \vdots & \vdots & \vdots \\ a_{n+q-1} & a_{n+q} & \cdots & a_{n+2(q-1)} \end{vmatrix}.$$

Another determinant associated with the function f is the qth Hermitian-Toeplitz determinant given by $T_q(n) := [a_{ij}]$, where $a_{ij} = a_{n+j-i}$ for $j \ge i$ and $a_{ij} = \overline{a_{ji}}$ for $j < i$. Thus

$$T_q(n) := \begin{vmatrix} a_n & a_{n+1} & \cdots & a_{n+q-1} \\ \overline{a}_{n+1} & a_n & \cdots & a_{n+q-2} \\ \vdots & \vdots & \vdots & \vdots \\ \overline{a}_{n+q-1} & \overline{a}_{n+q-2} & \cdots & a_n \end{vmatrix}.$$

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HERMITIAN-TOEPLITZ AND HANKEL DETERMINANTS FOR STARLIKE FUNCTIONS ASSOCIATED WITH A RATIONAL FUNCTION

H. M. SRIVASTAVA*, SUSHIL KUMAR, VIRENDRA KUMAR, AND NAK EUN CHO[†]

ABSTRACT. The main object of this article is to compute the best possible upper and the best possible lower estimates for the Hermitian-Toeplitz determinant of the third order for a class of starlike functions associated with a cardioid shaped region in the right half-plane. In addition, the upper bounds on the third and the fourth Hankel determinants are also determined. Relevant connections of the results, which are derived in this article, with those in earlier works, as well as some recent q-analytic developments on the subject and the recent attempts to analogous usages of the so-called (p, q)-calculus with a redundant parameter p are briefly pointed out.

1. INTRODUCTION

The Taylor-Maclaurin coefficient estimates of normalized analytic and univalent functions in the open unit disk give many useful information regarding the geometric properties of the functions studied. In 1916, Bieberbach [4] determined the best possible estimate on the second Taylor-Maclaurin coefficient for normalized univalent functions, which led naturally to various growth, distortion and covering theorems.

Hankel and Toeplitz matrices and the associated determinants are important objects in several branches of mathematics, especially in operator theory, matrix measure, matrix polynomial, signal processing, time series analysis, integral equations as well as univalent function theory. Hankel determinants contain constant entries along the reverse diagonal and Toeplitz determinants contain constant entries along the diagonal.

Let $\mathcal{A}$ be the class of normalized analytic functions:

$$f(z) = z + \sum_{n=2}^{\infty} a_n z^n,$$

which are defined in the open unit disk given by

$$\mathbb{D} := \{ z : \in \mathbb{C} \quad \text{and} \quad |z| < 1 \}.$$

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Data analytics and machine learning

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Autonomous pedestrian detection for crowd surveillance using deep learning framework

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Autonomous pedestrian detection for crowd surveillance using deep learning framework

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197 Accesses | Metrics

Abstract

Pedestrian detection is crucial for crowd surveillance applications and cyber-physical systems that can deliver timely and sophisticated solutions, especially with applications like person identification, person count, and tracking as the number of people rises. Even though the number of cutting-edge neural network-based frameworks for object detection models and pedestrian detection in images has steadily increased, object detection and image classification have made progress in terms of accuracy levels greater than 99% and level of granularity. A powerful object detector, specifically designed for high-end surveillance applications, is needed to position the bounding box, label it and return its relative positions. The size of these bounding boxes can vary depending on the object and its interaction with the physical world. To overcome these limitations and requirements, an extensive evaluation of the state-of-the-art algorithms has been presented in this paper. The work presented in this paper performs object detections on the MOT20 dataset using various algorithms and testing on a custom

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Abstract

Data availability

References

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A Review of the Thermoelectric Generation for Technological up-gradation for Enhancement of Acceptability as Alternate energy source

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Abstract- Energy conservation and clean technology is the need of the hour to combat the problem of energy deficit, global warming. Rise in energy demands with depletion of resources, the utilization of clean natural primary energies are now focus areas gaining importance. Continuous advancement in thermoelectric technology has been reported as an alternative to energy sources. Thermoelectric module has the capacity to produce electric power if a temperature gradient is maintained across its terminals.

This paper presents a comprehensive review on thermoelectric technology, its advancements, means and ways for its utilization as Thermoelectric Generator (TEG) as an independent entity or hybridized with other sources where heat is a waste/unutilized bi-product. The review is partially focused for utilization of thermoelectric module as TEG for improving efficiency of system like waste heat recovery in automobiles and Thermal/Gas power plants, Methane based power plants, active heat sinking in electronics and photovoltaic etc.

1. INTRODUCTION

Technological development of thermoelectric phenomenon were initiated in 1821 through Seebeck effect which states that an electromotive force could be produced by heating a junction between two metals. If two metals a and b are joined together so as to make a junction and if this junction is heated and other junction is kept at some reference temperature then the open circuit voltage ΔV is developed at this reference junction i.e. cold junction.

Extension to Seebeck research, in 1834 Peltier, discovered that the passage of an electric current through a junction between two dissimilar conductors in a certain direction produces a cooling effect.

A correlation between the Seebeck and Peltier coefficients was experimentally proven by Thomson and is known as Thomson effect. This effect co-relates the heating or cooling in a single element when current passes through it in the presence of a temperature gradient.

Seebeck effect is based on thermal diffusion principle which causes flow of charge carriers along temperature gradient in conducting material and generates electrical potential in open circuit condition.

Peltier effect theory indicates flow of energy in different conductors and heat absorbed or evolved at metal junction. Thermoelectric effect states that thermal energy can be converted to electrical energy or vice versa in conducting or semiconductor material.

Rayleigh introduced application of thermoelectric technology in electricity generation in 1885, in continuation to this Atenkirch gave a more meaningful and result oriented theory of thermoelectric generation and refrigeration in 1911 [1]. The technology was developed slowly till 1930's. In the late 1930s interest in thermoelectricity accompanied the development of synthetic semiconductors that possessed Seebeck coefficients in excess of 100 μV/K and in 1947 Telkes constructed a generator that operated with an efficiency of about 5% [2]. In 1949 Ioffe developed a theory of semiconductor thermoelements and in 1954 Goldsmith and Douglas demonstrated the cooling from ordinary ambient temperatures down to below 0°C[1]. Revolutionary developments first occurred in the US space program, the thermoelectric generators have been used by National Aeronautics and Space Administration (NASA) of USA to provide electrical power for spacecraft since 1961[2]. Due to awareness of green house effect due to the depletion of the ozone layer, a general public interest in environmentally friendly energy sources is developed. Thermoelectric generation as a potential source received importance due to environmental friendly operation, and large-scale electrical power generation using waste heat later in late 80's. Thermoelectric technology finds its application in cooling electronic circuits [4].

2. THERMOELECTRIC DEVICES