ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਬਠਿੰਡਾ MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY

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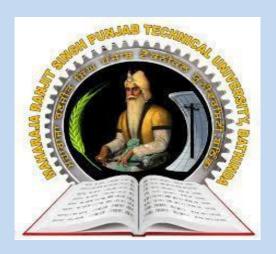
ANNUAL REPORT 2023 & 2024 RESEARCH PUBLICATIONS



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ANNUAL REPORT- RESEARCH PUBLICATIONS



2023 & 2024

INTERNAL QUALITY ASSURANCE CELL MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY BATHINDA 151001

ANNUAL REPORT- RESEARCH PUBLICATIONS [2023 & 2024]

Prepared by:

- Prof. (Dr.) Ashish Baldi, Director, IQAC
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ANNUAL REPORT- RESEARCH PUBLICATIONS 2023 & 2024

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of public ation	ISSN number
Understanding the Rich Traditional Craftsmanship of Punjab through the Architectural Works of Bhai Ram Singh	Ripu Daman Singh, Nisar Khan, Hina Zia	GZS School of Architecture and Planning	Journal of the Indian Institute of Architects	2023	0019-4913
Uncovering the Impacts of Land Use Change: A Case Study of Open/Green Areas Converted to Commercial Areas in Bathinda City, Punjab	Meenu Chaudhary, Dr. Bhupinder Pal Singh Dhot	GZS School of Architecture and Planning	Journal of Institute of Town Planning,Indi a	2024	0537-9679
Traditional and Modern Marble Stone Sculptures of Rajasthan: A Comparative Study	Dr. Ratan Kanwar	GZS School of Architecture and Planning	Research Review International Journal of Multidisciplin ary	2024	2455-3085
From Raw Earth To Timeless Art; The Evolution of Stone In Sculpture- A Review	Dr. Ratan Kanwar	GZS School of Architecture and Planning	International Journal of Creative Research Thoughts	2024	2320-2882
The Evolution of Indian Sculptural Traditions: Interweaving Art, Culture, and Contemporary Practices	Dr. Ratan Kanwar	GZS School of Architecture and Planning	International Journal For Multidisciplin ary Research	2024	2582-2160
Influence of pozzolanic addition on strength and microstructure of metakaolin-based concrete	Dr. Manjeet Bansal, Dr. Bal Krishan	Department of Civil Engineering	PLoS ONE	2024	1932-6203
A Comparative Study on Voltammetric Behavior of Dopamine at Glassy Carbon	Anjali, KK Thakur, Kirandeep Kaur, Sudhanshu P. Singh	Department of Chemistry	Russian Journal of General Chemistry	2024	1070-3632

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Electrode and					
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(2020–2024)				_	
Rational	Swati, Asif Raza, Shefali	Department of	ChemMedCh	2024	1860-7187
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immobilized	A.;Rani A.;Arora M.;Babu J.N.	Chemistry	Nanoparticle	2021	13/2 0/011
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Water	Jonty Kathuria, Jasleen Kaur, J.	Department of	Results in	2023	2211-7156
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Worddeepnet:	Harmandeep Kaur, Shelly Bansal,	Department of	Multimedia	2023	1380-7501
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Sentiment	Simran Sidhu, Surinder S. Khurana,	Department of	Multimedia	2023	1380-7501
analysis of	Munish Kumar, Parvinder Singh,	Computational	Tools and		
Hindi	Sukhvinder S. Bamber	Sciences	Applications		
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A	SK Mohiuddin, Samir Malakar,	Department of	Multimedia	2023	1380-7501
comprehensive	Munish Kumar, Ram Sarkar	Computational	Tools and		
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of-the-art					
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An efficient	Mohinder Kumar, M.K. Jindal,	Department of	Soft	2023	1432-7643
technique for	Munish Kumar	Computational	computing		
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CAPTCHA.					
DeepSpacy-	Navdeep Singh, Munish Kumar,	Department of	Evolving	2023	1868-6478
NER: an	Bavalpreet Singh, Jaskaran Singh	Computational	Systems		
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Punjabi language.					
Performance evaluation of different features and classifiers for Gurumukhi newspaper text recognition.	Rupinder Pal Kaur, Munish Kumar, Kushal Jindal	Department of Computational Sciences	Journal of Ambient Intelligence and Humanized Computing	2023	1868-5137
Bagging: An Ensemble Approach for Recognition of Handwritten Place Names in Gurumukhi Script.	Harmandeep Kaur, Munish Kumar, Aastha Gupta, Monika Sachdeva, Ajay Mittal, Krishan Kumar	Department of Computational Sciences	ACM Transactions on Asian and Low- Resource Language Information Processing	2023	2375-4699
Cattle identification system: a comparative analysis of SIFT, SURF and ORB feature descriptors.	Amanpreet Kaur, Munish Kumar, Kushal Jindal	Department of Computational Sciences	Multimedia Tools and Applications	2023	1380-7501
Gender prediction system through behavioral biometric handwriting: a comprehensive review.	Monika Sethi, M.K. Jindal, Munish Kumar	Department of Computational Sciences	Soft computing	2023	1432-7643
	Syad Tufael Nabi, Paramjeet Singh, Munish Kumar	Department of Computational Sciences	Evolving Systems	2023	1868-6478
On the performance analysis of various features and classifiers for handwritten Devanagari word recognition.	Sukhjinder Singh, Munish Kumar, Naresh Kumar Garg	Department of Computational Sciences	Neural Computing and Applications	2023	0941-0643
Transfer learning for image classification using VGG19: Caltech-101 image data set.	Monika Bansal, Munish Kumar, Monika Sachdeva, Ajay Mittal	Department of Computational Sciences	Journal of Ambient Intelligence and Humanized Computing	2023	1868-5137

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A comprehensive survey on machine translation for English, Hindi and Sanskrit languages.	Sitender Malik, Seema Bawa, Munish Kumar, Sangeeta Phogat	Department of Computational Sciences	Journal of Ambient Intelligence and Humanized Computing	2023	1868-5137
An empirical study to design an effective agile knowledge management framework.	Amitoj Singh, Vinay Kukreja, Munish Kumar	Department of Computational Sciences	Multimedia Tools and Applications	2023	1380-7501
Image forgery techniques: a review.	Gurpreet Kaur, Navdeep Singh, Munish Kumar	Department of Computational Sciences	Artificial Intelligence Review	2023	0269-2821
Signature identification and verification techniques: state-of-the art work.	Harmandeep Kaur, Munish Kumar	Department of Computational Sciences	Journal of Ambient Intelligence and Humanized Computing	2023	1868-5137
An Efficient Speech Enhancement Approach for Punjabi Language Using Acoustic and Tonal Features.	Jaspreet Kaur Sandhu, Amitoj Singh, Munish Kumar	Department of Computational Sciences	NeuroQuantol ogy	2023	1303-5150
Semantic segmentation of palpebral conjunctiva using predefined deep neural architectures for anemia detection.	Sabrina Dhalla, Junaid Maqbool, Tanvir Singh Mann, Aastha Gupta, Ajay Mittal, Preeti Aggarwal, Krishan Saluja, Munish Kumar, Shiv Sajan Saini	Department of Computational Sciences	Procedia Computer Science	2023	1877-0509
Self- supervised learning: A succinct review.	Veenu Rani, Munish Kumar, Syad Tufael Nabi, Ajay Mittal, Krishan Kumar Saluja	Department of Computational Sciences	Archives of Computationa I Methods in Engineering	2023	1134-3060
Augmented reality: A comprehensive review.	Shaveta Dargan Nagpal, Shally Bansal, Munish Kumar, Ajay Mittal, Krishan Kumar Saluja	Department of Computational Sciences	Archives of Computationa I Methods in Engineering	2023	1134-3060
Unveiling digital image forgeries using Markov based quaternions in frequency domain and fusion of	Savita Walia, Krishan Kumar, Munish Kumar	Department of Computational Sciences	Multimedia Tools and Applications	2023	1380-7501

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Recognition of offline handwritten Urdu characters using RNN and LSTM models.	Muzafar Mehraj Misgar, Faisel Mushtaq, Surinder Singh Khurana, Munish Kumar	Department of Computational Sciences	Multimedia Tools and Applications	2023	1380-7501
Feature extraction and classification techniques for handwritten Devanagari text recognition: a survey.	Sukhjinder Singh, Naresh Kumar Garg, Munish Kumar	Department of Computational Sciences	Multimedia Tools and Applications	2023	1380-7501
Gender Classification System Based on the Behavioral Biometric Modality: Application of Handwritten Text	Shaveta Dargan, Munish Kumar	Department of Computational Sciences	ACM Transactions on Asian and Low- Resource Language Information Processing	2024	2375-4699
Handwriting- based gender classification using machine learning techniques	Shaveta Dargan, Munish Kumar, Ajay Mittal, Krishan Kumar Saluja	Department of Computational Sciences	Multimedia Tools and Applications	2024	1380-7501
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Detection of content-based cybercrime in Roman Kashmiri using ensemble learning	Umar Farooq, Surinder Kumar Khurana, Parvinder Singh, Munish Kumar	Department of Computational Sciences	Multimedia Tools and Applications	2024	1380-7501
Federated learning: a comprehensive review of recent advances and applications	Harmandeep Kaur, Veenu Rani, Munish Kumar, Monika Sachdeva, Ajay Mittal, K. Kumar	Department of Computational Sciences	Multimedia Tools and Applications	2024	1380-7501

Facial emotion recognition: A comprehensive review	Manmeet Kaur, Munish Kumar	Department of Computational Sciences	Expert Systems	2024	e13352
Dynamic Prediction Model of Financial Asset Volatility Based on Bidirectional Recurrent Neural Networks	Ji Liu, Zheng Xu, Ying Yang, Kun Zhou, Munish Kumar	Department of Computational Sciences	Journal of Organizationa 1 and End User Computing (JOEUC)	2024	1546-2234
A convolution deep architecture for gender classification of urdu handwritten characters	Syed Tufael Nabi, Munish Kumar, Paramjeet Singh	Department of Computational Sciences	Multimedia Tools and Applications	2024	1380-7501
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Deep learning techniques for biometric security: A systematic review of presentation attack detection systems	Kashif Shaheed, Piotr Szczuko, Munish Kumar, Imran Qureshi, Qaisar Abbas, Ihsan Ullah	Department of Computational Sciences	Engineering Applications of Artificial Intelligence	2024	0952-1976
Sentiment analysis of Hindi language text: a critical review	Simran Sidhu, Surinder S. Khurana, Munish Kumar, Parvinder Singh, Sukhvinder S. Bamber	Department of Computational Sciences	Multimedia Tools and Applications	2024	1380-7501
VGG16: Offline handwritten devanagari word recognition using transfer learning	Sukhjinder Singh, Naresh Kumar Garg, Munish Kumar	Department of Computational Sciences	Multimedia Tools and Applications	2024	1380-7501

Age, gender and handedness prediction using handwritten text: A comprehensive survey	Chinu Singla, Raman Maini, Munish Kumar	Department of Computational Sciences	Engineering Applications of Artificial Intelligence	2024	0952-1976
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A Convolution Deep Architecture for Gender Classification of Urdu Handwritten Characters	Syed Tufael Nabi, Munish Kumar, Paramjeet Singh	Department of Computer Science Engineering	Multimedia Tools and Applications	2024	1573-7721
A novel low complexity retinex-based algorithm for enhancing low-light images	Prof.(Dr.) Savina Bansal, Prof.(Dr.) R K Bansal	Department of Electronics and Comm. Engineering	Multimedia Tools and Applications	2024	1573-7721
Optimizing Fog Computing Efficiency: Exploring the Role of Heterogeneity in Resource Allocation and Task Scheduling	Prof.(Dr.) Savina Bansal, Prof.(Dr.) R K Bansal, Er Nikita Sehgal	Department of Electronics and Comm. Engineering	International Journal of Computing and Digital Systems	2024	2210-142X
Investigating performance optimization through balanced task scheduling heuristics and DVFS in hybrid fogcloud	Prof.(Dr.) Savina Bansal	Department of Electronics and Comm. Engineering	TechRxiv	2023	CC BY- NC-SA 4.0

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Enhancing	Dr Manoj Sharma	Department of	Multimedia	2024	1573-7721
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Valorization of	Sukhvinder Singh Purewal,	Department of	Journal of	2023	2193-4126
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A comparative	Sukhvinder Singh Purewal, Piyush	Department of	Biocatalysis	2023	1878-8181
-	Verma, Pinderpal Kaur, Kawaljit	Food Science and	and	2023	10/0-0101
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al,	Sandhu, Sukhvinder Singh Purewal,	Food Science and	Food	2023	2173-4120
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potential of rye (Secale cereale) starch: a report broadening its commercial uses Processing	Sukhvinder Singh Purewal, Kartik	Department of	Food	2023	2772-753X
mediated suppression of bitterness causing compounds in ready to serve kinnow beverage	Sharma, Pinderpal Kaur, Kawaljit Singh Sandhu, Rishav Kamboj	Food Science and Technology	Chemistry Advances		
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Analysis of objective criteria weighing techniques in different MCDM methods on technological competencies factor selection	Sharma, H., Singh, C.D., Singh, K.J.	Department of Food Science and Technology	International Journal of Process Management and Benchmarkin g	2023	1460-6739

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Review Friction Stir Welding of Aluminium Alloy AA2219 with Tensile Load and Lowest	Shrkiant, K.A., Singh, K.J.	Department of Food Science and Technology	Journal of Emerging Technologies and Innovative Research	2023	2349-5162
Hardness Distribution Profile Analysis Short Review on Friction Stir Welding and Machining Parameters	Shrkiant, K.A., Singh, K.J.	Department of Food Science and Technology	International Journal of Emerging Technologies and Innovative Research	2023	2349-5162
Friction Stir Welding of Aluminium Alloy AA2219 and Tensile Load Analysis	Shrkiant, K.A., Singh, K.J.	Department of Food Science and Technology	International Journal of Emerging Technologies and Innovative Research	2023	2349-5162
Infinite Dimensional Symmetry Group Reductions and Conservation Laws of Lin- Reissner-Tsien Equation	Jaskiran Kaur, Manjit Singh and Mukesh	Department of Mathematics	International Journal of Applied and Computationa 1 Mathematics	2023	2199-5796
L1- Convergence of Newly defined Trigonometric Sums Under some new class of Fourier Coefficients	Priyanka and Karanvir Singh	Department of Mathematics	Journal of Computationa 1 Analysis and Applications	2023	1572-9206
L1- Convergence of Cosine Series using Cesaro means of Integral and Non-Integral Orders	Priyanka and Karanvir Singh	Department of Mathematics	AIP Conference Proceedings	2023	1551-7616
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5,7-dihydroxy-3',4',5'- trimethoxyflav one mitigates lead induced neurotoxicity in rats via its chelating, antioxidant, anti- inflammatory and monoaminergi c properties	Varinder Singh, Richa Shri,Parul Sood, Manjinder Singh, Thakur Gurjeet Singh, Ravinder Singh, Amit Kumar, Sheikh F. Ahmad	Department of Pharmaceutical Sciences and Technology	Food and Chemical Toxicology	2024	1873-6351
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To study the PET/bamboo and PET/cotton blend yarn to made for the knitted fabric on comfort properties behavior: Part-I	Anupam Kumar, Ramratan, Jatinder Kumar	Department of Textile Engineering	Journal of the Textile Association	2023	0040-5000

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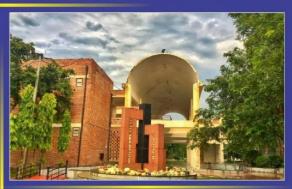
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