

## **Research Articles in International Journals**

1. **Sharma Suresh Kumar** and Manglani Hemlata, “Technology Transfer: A Study of Export Marketing of Sanganer Printing Apparels” published in International Journal of Management, IT & Engineering, ISSN:2249-0558. 2012
2. Aparajita Dixit, **Suresh Kumar Sharma** and Durga Prasad Sharma. Impetus on Big Data to Boost Indian MSME Sector and Economy using Cloud Storage. *International Journal of Computer Applications* 174(21):17-23, February 2021
3. **Suresh Kumar Sharma**, Durga Prasad Sharma, Manoj Kumar Sharma, Kiran Gaur, Pratibha Manohar, "Trend Analysis of Temperature and Rainfall of Rajasthan, India", Journal of Probability and Statistics, vol. 2021, Article ID 6296709, 7 pages, 2021. <https://doi.org/10.1155/2021/6296709> (WoS - ESCI)
4. Seema, Sudesh Kumar, **Suresh Kumar Sharma**, Suhel Ahmad Khan and Pawan Singh, “Simulation-Based Performance Evaluation of VANET Routing Protocols under Indian Traffic Scenarios”, ICIC Express Letters – An International Journal of Research and Surveys (ISSN 1881-803X), 2021 (Scopus)
5. **Sharma, S. K.** Seema, Rao, R. S. Singh, P., & Khan, S. A (2022). Evaluation of VANETs Routing Protocols for Data-Based Smart Health Monitoring in Intelligent Transportation Systems. *International Journal of Mathematical, Engineering and Management Sciences*, 7(2), 211-230. <https://doi.org/10.33889/IJMMS.2022.7.2.014> (Scopus, WoS – ESCI)
6. Kumar, S., Rathore, N.K., Prajapati, M. and **Sharma, S.K.**, SF-GoeR: an emergency information dissemination routing in flying Ad-hoc network to support healthcare monitoring. *J Ambient Intell Human Comput* (2022). <https://doi.org/10.1007/s12652-022-04434-3> (Springer Nature – Scopus, SCIE, IF 3.662)
7. N. Prakash, Sangram Patil, Bhagatsing Jitkar and **Suresh Kumar Sharma**, “An innovation development to eliminate the red eye effects in visual image processing using color scheme deep learning model”, ICTACT Journal on Image and Video Processing, 2022, Volume: 13, Issue: 01, Aug 2022 (UGC-CARE)
8. Puja Gupta, Sudesh Kumar, Youddha Beer Singh, Pawan Singh, **Suresh Kumar Sharma**, Neeraj Kumar Rathore. The Impact of Artificial Intelligence on Renewable Energy Systems. NeuroQuantology | December 2022 | Volume 20 | Issue 16|Page 5012-5029 | doi: 10.48047/NQ.2022.20.16.NQ880509 (Scopus)
9. Bommy, M., Jhansi Rani, P., Abraham V, T. J., Chhabra, G., **Sharma, S. K.**, & Jayanthi Kannan, M. (2022). SURVEY ON CYBER SECURITY THROUGH WATERMARKING AND DEEP LEARNING TECHNIQUES. European Journal of Molecular & Clinical Medicine, 9(7), 8546–8555
10. Thippeswamy, G., Jayadurga, R., & **Sharma, S. K.** (2023). AI based Machine Learning Algorithm in VLSI Technology Application. *ICTACT Journal on Microelectronics*, 8(4), 1462-1465. doi:10.21917/ijme.2023.0252

11. Aparajita Dixit, Durga Prasad Sharma and **Suresh Kumar Sharma** (2023). Technological Support Framework for Indian Small and Medium Scale Enterprises Over Clouds. *Journal of Data Acquisition and Processing*, 38(1), 1117-1135. DOI: 10.5281/zenodo.7710520 (**Scopus**)
12. **Suresh Kumar Sharma**, Durga Prasad Sharma and Kiran Gaur (2023). Crop Yield Predictions and Recommendations using Random Forest Regression in 3A Agroclimatic Zone, Rajasthan, Shu Ju Cai Ji Yu Chu Li/*Journal of Data Acquisition and Processing*, 38(2), 1635-1651. (**Scopus**)
13. **Sharma S. K**, Sharma D. P, Gaur K. Machine Learning Techniques for Crop Yield Forecasting in Semi-Arid (3A) Zone, Rajasthan (India). *Curr Agri Res* 2023; 11(3). (**UGC-CARE**)
14. Ghosaliya B.K., Mittal G.K., Shivran A.C., **Sharma S.K.**, Saxena S.N., Jain S.K. (2024). Water Stress Induced Changes in Seed quality of Fenugreek (*Trigonella foenum- graecum L.*) Genotypes . *Legume Research*. 47(1): 20-26. doi: 10.18805/LR-4493. **NAAS 6.80**
15. Chakraborty, U., Thilagavathy, D., **Sharma, S. K.**, & Singh, A. K. (2024). Hybrid Deep Learning with Alexnet Feature Extraction and Unet Classification for Early Detection in Leaf Diseases. *ICTACT Journal on Soft Computing*, Volume: 14, Issue: 3, Pages: 3255 - 3262, <https://doi.org/10.21917/ijsc.2024.0457>, Jan 2024 (**UGC-CARE**)
16. Aparajita Dixit, **Suresh Kumar Sharma**, Mamta Dhaka and Nisha Jain. Image and Video Retrieval and Authentication Using AI-Driven Techniques for Secure Media Management, *ICTACT Journal on Image and Video Processing*, Volume: 15 , Issue: 2 , Pages: 3417 – 3424, Nov 2024 (**UGC-CARE**)

#### **Papers in International Conference Proceedings**

17. Pratibha Manohar, Ajay Sharma and **Suresh Kumar Sharma** (2020), "On Fractional Free Electron Laser Equation in Single Mode Case with Generalized Mittag-Leffler Type Function and Caputo Fractional Derivative", *ICRTM-2020 Proceedings of International Conference on Research Trends in Mathematics – 2020*, 247-252.
18. A. Dixit, D. P. Sharma, **S. Kumar Sharma** and M. Dhaka, "A brief review of Data Analytics approach for Small and Medium Scale Enterprises over Clouds," *2021 International Conference on Computational Performance Evaluation (ComPE)*, 2021, pp. 878-885, doi: 10.1109/ComPE5109.2021.9752320. (**Scopus, WoS**)
19. M. Dhaka, D. P. Sharma, **S. Kumar Sharma** and A. Dixit, "An Analysis of Electronic Health Record System in Healthcare Services in Cloud: A Review Perspective," *2021 International Conference on Computational Performance Evaluation (ComPE)*, 2021, pp. 886-892, doi: 10.1109/ComPE5109.2021.9751995. (**Scopus, WoS**)
20. **S. K. Sharma**, D. Prasad Sharma, M. K. Sharma, K. Gaur and P. Manohar, "Analysis of Temperature and Rainfall Trends for Jaipur district of Rajasthan, India," *2021 International Conference on Computational Performance Evaluation (ComPE)*, 2021, pp. 059-066, doi: 10.1109/ComPE5109.2021.9752376. (**Scopus, WoS**)
21. **S. K. Sharma**, D. P. Sharma and J. K. Verma, "Study on Machine-Learning Algorithms in Crop Yield Predictions specific to Indian Agricultural Contexts," *2021 International*

Conference on Computational Performance Evaluation (ComPE), 2021, pp. 155-166, doi: 10.1109/ComPE53109.2021.9752260. **(Scopus, WoS)**

22. P. Nagarjuna, A. S. Pandian, **S. K. Sharma**, T. Ramesh, M. A. Sohail and M. D. Babu, "Integrating Cloud And Edge Computing For Scalable Iot Applications," *2024 2nd International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)*, Faridabad, India, 2024, pp. 214-219, doi: 10.1109/ICAICCIT64383.2024.10912122. **(Scopus)**

### **Papers Presented in International Conference**

1. "Statistical Analysis of Temperature and Rainfall Trends for Jaipur district of Rajasthan, India", Multidisciplinary International Conference, 2021, S.S. Jain Subodh Girls College, Jaipur
2. "Analysis of Temperature and Rainfall Trends for Jaipur district of Rajasthan, India," 2021 International Conference on Computational Performance Evaluation (ComPE), 2021
3. "Study on Machine-Learning Algorithms in Crop Yield Predictions specific to Indian Agricultural Contexts," 2021 International Conference on Computational Performance Evaluation (ComPE), 2021
4. "Predictions of Indian Agricultural Crop Yield: A Machine-Learning Algorithms Insight, ICETIT-2022, IGNTU, Amarkantak, MP, India
5. "Weather Variability based Crop Recommendation Model using Machine Learning in 3A Agroclimatic Zone in Rajasthan, India, ICMCITC-2023, MAISM, Jaipur, 10-11 March, 2023.
6. "Trusted Third Party Security Model for Ensuring Security of Cloud Storage using Cryptography", ICMCITC-2023, MAISM, Jaipur, 10-11 March, 2023.
7. "From fields to Data: Bridging the gap in Ag. with Computing" in 2<sup>nd</sup> ICMCITC-2024 on 05.03.2024, MAISM, Jaipur
8. Sharma, S.K.; Gaur, K.; Manohar, P.; Sharma, M.K.; Dixit, A. and Karmakar, S. (2024). AI in Agricultural Science: Paving the Way for Sustainable Food and Nutritional Security in India. Published in proceeding of National Conference on "Sustainable Food Security: Cultivating the Future through Organic and Natural Farming" held during 8-9 April, 2024 organized by Maharishi Arvind University, Jaipur.

### **Popular Articles in Magazines**

1. Pratibha Manohar, **Suresh Kumar Sharma**, "Kheti Ka Ganit", Jobner Krishi, December, 2016, Pg1.
2. Kiran Gaur, **Suresh Kumar Sharma**, Pratibha Manohar and Manoj Kumar Sharma, "Parishudh Krishi: Krishi ka ek Ubharta Swaroop" Krishi Bharti, November 2020, Pg 12-13.
3. Pratibha Manohar, Kiran Gaur, **Suresh Kumar Sharma** and Manoj Kumar Sharma, "Krishi ke sudurSavedan ka Mehatwa" Scientific Kheti, December, 2020, Pg 28-29
4. Kiran Gaur, Pratibha Manohar, Manoj Kumar Sharma and **Suresh Kumar Sharma**, Krishi udhmiata: Atmanirbhar bharat ke aur ek kadam", Jobner Krishi, January, 2021, Pg 5

5. **Suresh Kumar Sharma**, Pratibha Manohar, Kiran Gaur and Manoj Kumar Sharma, “*Parishudhata Krushi ke liye IOT Sensor*”, Jobner Krishi, April, 2021, Pg 4-5.
6. **Suresh Kumar Sharma**, Pratibha Manohar, Kiran Gaur, Manoj Kumar Sharma, G.K. Mittal, “*Kheti ka Bhavishya Parishudhata Krishi*”, Krishi Bharti, Sep-21, Pg 24
7. Pawan Choudhary, Vinod Kudi, **Suresh Kumar Sharma**, Pankaj Kumar Kaswan, “*Adunick Krishi me Internet of Things ka Mahatwa*”, Madhya Bharat Krishi Bharti, Gwalior, January 2022
8. Kiran Gaur, **Suresh Kumar Sharma**, Pratibha Manohar, Manoj Kumar Sharma and Girish Kumar Mittal “*Krishi shetra mein nayi kranti: Big Data*” Jobner Krishi, October 2022, Pg 2-3.
9. Pratibha Manohar, Kiran Gaur, **Suresh Kumar Sharma**, Manoj Kumar Sharma and Girish Kumar Mittal “*Agribot-Krishi Chat-bot*”, Jobner Krishi, Feb 2023, Pg 4-5.
10. **Suresh Kumar Sharma**, Kiran Gaur, Pratibha Manohar, Manoj Kumar Sharma, G.K. Mittal, “राजस्थान में मशीन लर्निंग का उपयोग कर फसल उपज में वृद्धि”, Jobner Krishi, April 2023, Pg 2-3.
11. Pratibha Manohar, Kiran Gaur, **Suresh Kumar Sharma**, Manoj Kumar Sharma and Girish Kumar Mittal “*कृषि में डिजिटल छवि प्रसंस्करण*”, Jobner Krishi, August 2023, Pg 6-7.
12. Pratibha Manohar, Kiran Gaur, **Suresh Kumar Sharma**, Manoj Kumar Sharma and Girish Kumar Mittal “*सूचना प्रौद्योगिकी की कृषि में भूमिका*”, Jobner Krishi, October 2023, Pg 2-3.
13. Pratibha Manohar, Kiran Gaur, **Suresh Kumar Sharma**, Manoj Kumar Sharma and Girish Kumar Mittal “*सुदूर सवेदन आधारित फसल स्वस्था मूल्यांकन: चुनोतियाँ व अवसर*”, Jobner Krishi, January 2024, Pg 7-8.

### **Poster Presentations**

1. **Suresh Kumar Sharma**, Pratibha Manohar, Kiran Gaur and Manoj Kumar Sharma. Trusted Third Party Security Model for Ensuring Security of Cloud Storage using Cryptography. National Conference cum Rajasthan Science Congress : 15-17 December, 2022

### **Abstract Published**

1. Kiran Gaur, **Suresh Kumar Sharma**, Manoj Kumar Sharma, Pratibha Manohar: Prediction of Sorghum Yield using Machine Learning in Jaipur, Rajasthan, International Conference on the role of Advanced Statistical Tools for Sustainable Development organized by Department of Statistics, University of Rajasthan during 23-25 September 2022, pg 28
2. Manoj Kumar Sharma, Kiran Gaur, Raja Ram Yadav, **Suresh Kumar Sharma**, Pratibha Manohar: A model-based approach for Pre-harvest forecast of Barley yield on weather variables of Jaipur District, International Conference on the role of Advanced Statistical Tools for Sustainable Development organized by Department of Statistics, University of Rajasthan during 23-25 September 2022, pg 20-21

3. Manoj Kumar Sharma, Kiran Gaur, Pratibha Manohar, **Suresh Kumar Sharma** & Nutan Sharma (2022), An analysis of trend and growth patterns of pulse production in Rajasthan, published in Souvenir & Abstract (pp.111) of the National Conference cum 9<sup>th</sup> Rajasthan Science Congress on “Harnessing Frontier Science and Technologies for Food, Nutrition, Health and Environmental Security” held during Dec. 15-17, 2022 at SKNAU, Jobner.
4. Pratibha Manohar, Ajay Sharma, Kiran Gaur, **Suresh Kumar Sharma** & Manoj Kumar Sharma, (2022), Fractional Lomax Probability Density Function Generated from Fractional Differential Equation with Caputo Derivative, published in Souvenir & Abstract (pp.111) of the National Conference cum 9<sup>th</sup> Rajasthan Science Congress on “Harnessing Frontier Science and Technologies for Food, Nutrition, Health and Environmental Security” held during Dec. 15-17, 2022 at SKNAU, Jobner.
5. Kiran Gaur, Pratibha Manohar, **Suresh Kumar Sharma** & Manoj Kumar Sharma, (2022), Regional variation of hypertension in India: An NHFS-5 Insight, published in Souvenir & Abstract (pp.169) of the National Conference cum 9<sup>th</sup> Rajasthan Science Congress on “Harnessing Frontier Science and Technologies for Food, Nutrition, Health and Environmental Security” held during Dec. 15-17, 2022 at SKNAU, Jobner.
6. **Suresh Kumar Sharma**, Pratibha Manohar, Kiran Gaur & Manoj Kumar Sharma, (2022), Trusted third party security Model for ensuring security of cloud strong using cryptography, published in Souvenir & Abstract (pp.175) of the National Conference cum 9<sup>th</sup> Rajasthan Science Congress on “Harnessing Frontier Science and Technologies for Food, Nutrition, Health and Environmental Security” held during Dec. 15-17, 2022 at SKNAU, Jobner.
7. **Suresh Kumar Sharma**, Pratibha Manohar, Kiran Gaur and Manoj Kumar Sharma, “Trusted Third Party Security Model for Ensuring Security of Cloud Storage using Cryptography”, ICMCITC-2023, MAISM, Jaipur, 10-11 March, 2023.
8. **Suresh Kumar Sharma**, “Weather Variability based Crop Recommendation Model using Machine Learning in 3A Agroclimatic Zone in Rajasthan, India, ICMCITC-2023, MAISM, Jaipur, 10-11 March, 2023.

### **Intellectual Property Generation**

(Patents, Copyrights, Designs, PPV registered only)

1. **Design Patent - BATTERY-POWERED WALK-BEHIND HORIZONTAL AND VERTICAL BOOM SPRAYER**
2. **Design Patent - REAL TIME VARIABLE RATE SPRAYER FOR ORCHARD CROPS**

### **Book Chapter**

1. Application of Statistical Designs to Layout Experiments of Underutilized Vegetables Crops, Dr. Kiran Gaur, Assoc. Prof. (Statistics) & Dr. Suresh Kumar Sharma, Asstt. Prof. (Computer), SKNAU, Jobner, published in Training Compendium ICAR Short Course Modernization Techniques in Underutilized Vegetable Crops under Arid and Semi-Arid Conditions

2. Sharma, S.K.; Gaur, K.; Manohar, P.; Sharma, M.K.; Dixit, A. and Karmakar, S. (2024). AI in Agricultural Science: Paving the Way for Sustainable Food and Nutritional Security in India. Published in proceeding of National Conference on “Sustainable Food Security: Cultivating the Future through Organic and Natural Farming” held during 8-9 April 2024 organized by Maharishi Arvind University, Jaipur.