

## PROFILE

1. Full Name : Sujai Das
2. Educational Qualification : M.Sc.(CS), BHU
3. Designation : Scientist(SG)
4. ARS Discipline : Computer Application in Agriculture
5. Date of joining in ICAR : 03.09.1996
6. Date of Joining in ICAR-NINFET : 20.12.1997
7. Working experiences (in years)
  - a. Research : 24
  - b. Teaching : Nil
  - c. Industry : 2
8. Area of work (Five areas only)
  - a. Artificial Intelligence/Machine Learning Application
  - b. Internet of Things (IoT) Application
  - c. Mobile Computing Application
  - d. Image/Video Processing Application
  - e. Instrumentation/automation application
9. Contact details
  - a. Mobile No : 9836918496
  - b. Email (Including ICAR email) : [sujai\\_das@yahoo.com](mailto:sujai_das@yahoo.com), [sujai.das@icar.gov.in](mailto:sujai.das@icar.gov.in)
10. Number of project completed (As PI)
  - a. 6
11. Professional Achievements (Awards / Best Papers/Appreciation)
  - a. 4
12. List of publication (Numbers only)
  - a. Research papers in National journal (NAAS rated) : 5
  - b. Research papers in International journal (NAAS rated) : 2
  - c. Popular articles : 20
  - d. Book Chapter : 10
  - e. Books Edited : Nil
  - f. Seminar Papers : 10
  - g. Bulletin : 2
13. Seminar presentation (numbers only)
  - a. Invited papers : 2



b. Research papers : 12

14. Patents Applied (Numbers only) : 1

15. Patents Granted (Details) : Nil

16. Technology Commercialised (five with details) : two

17. List the five major achievements in the career

- a. IoT based smart irrigation system
- b. Mobile App for natural fibre
- c. Image processing based jute yarn diameter analysis
- d. Image processing based jute fabric defect measurement at fabric inspection table
- e. Development of jute portal and DSS for jute & allied fibre
- f. Development germplasm information system

18. List the last 10 years publications in the whole career (Details)

- Das, S. (2021). Development of Android mobile App for jute & allied fibre, Indian Journal of Natural Fibres, 6 (2): 15-24.
- Das, S. and Nath, K.G., (2021). Production of raw jute fibre and distribution of industry in India, Indian Journal of Natural Fibres, 7 (2): 37-48.
- Das, S., Nayak, L.K., Ammayapan, L. and Kundu, S., (2021). Role of Social Media in Agriculture Extension, Indian Journal of Natural Fibres, 8 (1): 7-20.
- Das, S, Bhowmick, M, and Kundu, T.K, An overview of analysis of jute yarn diameter irregularity using computer vision and Artificial neural network , Indian Journal of Natural Fibres, 6 (1): -65.
- Das S, Shambhu, VB and Saha B, 2017. Case Study: Development of Mobile Operating System, International Journal of Computer Science and Information Technology Research, 6 (1): 46-49.
- Das S, Bhowmick M and Kundu TK, 2017. Jute yarn diameter irregularity analysis based on deep learning”, International Journal of Engineering Research and Reviews, 6 (1): 19-24.
- Das, Sujai, Sengupta, Surajit, Shambhu, V.B., Ray, D.P., “Defect detection of jute fabrics using image processing”, Economics Affairs, 61(2), pp: 273-280.
- Das, S., Ammayappan, L., Nayak, L.K., Sen, Utpal, “Decision support for jute diversified product.”, International research journal of Engineering and Technology (IRJET), vol. 2, issue : 09, pp: 615-619.
- Das, Sujai, V.B. Sambhu, L.K. Nayak, “Development of decision support system for jute grading”, International Journal of Emerging Technology and Advanced Engineering IJETAE, Vol: 3, Issue : 8, pp : 754-758.
- Das, S., V. B. Sambhu, L. Ammyappan and L.K. Nayak, “Development of Institutional Repository”, Indian Journal of Agricultural Library and Information services , Vol : 29(1), pp: 8-20.
- Das, S. and L.K. Nayak, “Agriculture knowledge sharing cloud computing”, Indian Journal of Agricultural Library and Information services , Vol : 28(2), pp: 1-7.
- Das, S., Nag, D. and Nayak, L.K. Jute Portal: An Innovative approach for Knowledge Management, International Journal of Information & Computing Sciences, Vol. 15 (1), pp: 25-28.
- Das, S. and Nayak, L.K. Decision support system for plant variety selection, International Journal of Information & Computing Sciences, Vol. 15 (2), pp: 38-39.
- Das, S. and Nayak, L.K., Expert System for Agriculture Extension, Indian Journal of Automation and Artificial Intelligence, Vol. 1(2), pp:62-64.
- L.K., Nayak, D. Nag, S. Das, Deb Prasad Ray and Lakshmanan Ammayappan, (2011). “Utilization of sisal fibre(Agave Sisalana L.)-A review”, Agriculture Review, Vol. 32(2):150-152.

- L.K., Nayak, A.K. Roy and S. Das (2011) “Some characteristics of jute caddies with reference to briquetting and gasification”, Journal of Indian Chemical society, Vol 88, PP 599-601.
- Das, Sujai and Laxmikanta Nayak (2011), “Development of information system for jute”, International Journal of Information and computing science, Vol 14(2):49-52.
- Nayak, L.K., and Das, S., Effect of degree of milling on proximate composition of hybrid rice, Journal of the Indian society of coastal agricultural research, Vol.30 (1): 77-78.
- L.K., Nayak, A.K. Roy and S. Das (2011) “Some characteristics of jute caddies with reference to briquetting and gasification”, Journal of Indian Chemical society, Vol 88, PP 599-601.
- L.K., Nayak, D. Nag, S. Das, Deb Prasad Ray and Lakshmanan Ammayappan, (2011). “Utilization of sisal fibre (Agave Sisalana L.)-A review”, Agriculture Review, Vol. 32(2):150-152.
- L. Ammayappan, L.K. Nayak, D.P. Ray, S. Das, A.K. Roy (2013) “Functional finishing of jute textiles – A overview in India “ , Journal of natural fibres, 10 : 4, 390-413.
- L.K. Nayak, R.D. Sharma, S. Das “Effect of degree of milling on approximate composition of hybrid rice (Hindi)”, Bhartiya Krishi Anusandhan patrika, vol 28(2), pp: 71-73 (2013).

19. Training program attended (Numbers only) : 10

20. Training program organized (Numbers only) : 4

21. Professional Affiliations (Details)

- a. Member of The Indian Natural Fibre Society (TINFS)
- b. Member of Indian Science Congress Association (ISCA)
- c. Member of Forum of scientists, engineers & technologists (FOSET)
- d.** Member of Computer Society of India