ICAR-IIRR organised DST-SERB sponsored high end workshop – KARYASHALA on "Multivariate Statistical Machine Learning Methods for Modelling Agricultural Data" from 24th July to 4th August 2023

ICAR- Indian Institute of Rice Research has organised two weeks High End Workshop on Multivariate Statistical Machine Learning Methods for Modelling Agricultural Data" from 24th July to 4th August 2023 (Under the KARYASHALA Scheme – a SERB Initiative). The High end workshop is funded by Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India.

The 'KARYASHALA' is aimed to improve research productivity of promising PG and PhD students from universities/colleges through high-end workshops on specific themes.

The Programme on Multivariate Statistical Machine Learning Methods for Modelling Agricultural Data provided opportunities to acquire the specialized research skills and provide hands-on experience to the selected 25 Students (5 PG and 20 Ph.D. Level) chosen from 440 applications belonging to 15 Disciplines primarily from the Universities, Colleges and Private Academic Institutions from 17 different States in India.
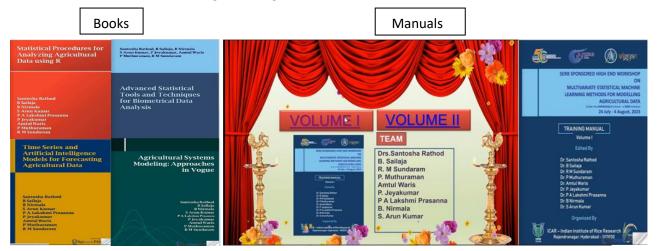

This training program was inaugurated by Dr. Seema Jaggi ADG HRD ICAR New Delhi and she highlighted the importance of statistical and machine learning techniques in agricultural research. She also briefed about the new agricultural education policy and how it is going to help the agricultural students. Dr RM Sundaram, Director, ICAR – IIRR in his remarks highlighted the importance of the training programme in the context of increasing role of data sciences and its advanced methodologies.

The content of this workshop has been divided into 6 modules namely, Software packages, Regression and Multivariate Analysis, Design of Experiments and Biometrical Data Analysis, Machine Learning Techniques, Time Series Data analysis and Other Useful Topics. There were about 50 theory and practical classes. Ample time has been provided for practical Classes. Two training manuals (volume 1

and 2) consisting of Course material including R and other software codes were given in terms and four books were released during the inaugural function.

Books

Manuals

Dr. Vinod Kumar Singh, Director, ICAR-CRIDA presided as chief guest for the valedictory of training held on August 4, 2023. He has enlightened students with the importance of machine learning application in agriculture and Agricultural systems modelling.

The organising team: Dr Santosha Rathod, Course Director; Drs. B. Sailaja, P. Muthuraman, Amtul Waris, Jey Kumar, Lakshmi Prasanna, B. Nirmala and S. Arun Kumar.