



PReMI'23

10th International Conference on Pattern Recognition and Machine Intelligence
December 12-15, 2023



Organized by

Machine Intelligence Unit, Indian Statistical Institute (ISI), Kolkata, India

URL: <https://www.isical.ac.in/~premi23/>

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Special Session Title:

AI/ML in Agriculture

Objective: Artificial intelligence and machine learning (AI/ML) applications, efficient cost-effective sensors and high-performance computing technologies are transforming the traditional experience-based agriculture into a more efficient smart agriculture. The special session on **AI/ML in Agriculture** will highlight the fundamentals, accomplishments to date, novel methods, new achievements and challenges ahead in AI/ML algorithms, experimental technology, software, pipeline model, and intelligent applications in the field of agriculture. This session will provide a forum for researchers, academicians, professionals, biologists, scientists, engineers and students working in this discipline to connect, engage, and join in shaping the future of this exciting field. Original research and review articles are welcome.

Topics: Potential topics include but are not limited to the following:

- Internet of Things and its Application in Smart Agriculture
- Insect and Plant Disease Recognition and Prediction
- AI/ML in Crop Yield Prediction
- AI/ML Crop and Soil monitoring
- AI/ML Methods for Plant Species Classification
- Block-chain based Methods for Security in Agricultural
- Livestock health monitoring
- Deep Learning-based Methods for Plant Disease Recognition and Prediction
- New optimization methods for AI Algorithms in Agriculture
- Automatic weeding
- Intelligent spraying
- Robotics and Mechatronics in Agriculture
- Big Data Technology in Agriculture
- Food Material Supply-chain Security Tracing in Smart Agriculture
- Crop Security in Smart Agriculture

Submission Procedure: Submissions for the special issue must be made online through EquinOCS following the submission link below. Do select the category name as Special session in **AI/ML in Agriculture** while submitting the paper: <https://equinocs.springernature.com/service/PReMI2023>

Papers should have maximum eight A4 pages (including figures, tables, and complete authors' affiliations). For details, please see PReMI'23 website (submission). Papers exceeding eight pages will be subjected to over length page charges. Manuscripts, to be reviewed double-blind, must be prepared with LaTeX2e (use Springer class file lncs2e.zip) and must also adhere to Springer plagiarism policies. Follow the authors' instruction in <http://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines>.

Proceedings: All accepted papers, whose author(s) register, would be included in the conference proceedings to be published by Springer International Publishing in its prestigious LNCS series.

Location: The conference will be held at the Indian Statistical Institute, Kolkata. It is close to Netaji Subhas Chandra Bose International Airport, and three important railway termini, Howrah, Sealdah and Kolkata.

Fellowship: Financial support in the form of fellowship may be provided to some of the student authors.

Important Dates:

Paper submission: ~~April 30, 2023~~ May 10, 2023

Acceptance notification: June 30, 2023

Camera-ready submission: July 15, 2023

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Session Organizer:

Dr. Rosy Sarmah, Assoc. Prof., Dept. of CS & Engg., Tezpur University