SEMINAR DAY

DATA, MODELING, AND PREDICTION FOR AGRICULTURE IN A CHANGING CLIMATE

THURSDAY | JANUARY 14, 2027 | COHEN AUDITORIUM, VOLCANI INSTITUTE, RISHON LEZION, ISRAEL

PROGRAM

08:30–09:15 | Registration and Welcome

09:15–09:30 | Opening Remarks

SESSION 1 | Weather, Climate Modeling and Forecasting | 09:30–11:10

Session Chair: Dr. Ehud Strobach

09:30–09:50 | High-Resolution Meteorological Models Across Different Forecasting Timescales at the Israel Meteorological Service | Dr. Amir Givati

09:50–10:10 | Assessment of precipitation and temperatures over Israel at the end of the 21st century using statistical downscaling of CMIP5/CMIP6 models | Prof. Dorita Rostkier-Edelstein

10:10–10:30 | Understanding Seasonal Forecast Skill in the Eastern Mediterranean: Precipitation, Circulation, and Teleconnections | Gayathridevi Salila

10:30–10:50 | Harnessing IoT Data for Weather Monitoring in Agriculture | Dr. Noam David

10:50–11:10 | A Prototype High-Resolution Data-Assimilation System for Israel | Dr. Ehud Strobach

11:10–11:30 | Coffee break

SESSION 2 | Remote Sensing, Crop Monitoring and Modeling | 11:30–13:10

Session Chair: Dr. Offer Rozenstein

11:30–11:50 | Data Assimilation in Crop Growth Models: Opportunities and Challenges | Prof. Raphael Linker

11:50–12:10 | Scaling laws as a basis for predicting crop growth under changing climate | Dr. Guy Golan

12:10–12:30 | Impact of Spectrally Splitting Agrivoltaic Collectors on Crop Yield | Dr. Helena Vitoshkin

12:30–12:50 | Climate Change and Wheat Cultivation: Research and Modeling Tools for Growers and Breeders | Dr. David Bonfil

12:50–13:10 | Near-Real-Time Crop Mapping in Israel | Dr. Offer Rozenstein

REGISTRATION

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Participation is free of charge, advance registration is required.
Register here:
https://bit.ly/4zBADZM
The seminar will be held in English.

Program continued on next page

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PROGRAM | CONTINUED

13:10–14:00 | Lunch break

SESSION 3 part I | Predictive Modeling and Decision Support in Agriculture | 13:55–16:10

Session Chair: Dr. Lior Blank

14:00–14:20 | Model-Based Optimization in Agriculture: Integrating Climate Forecasts and Managing Uncertainty Through Stochastic Approaches | Dr. Alaa Jamal

14:20–14:40 | Dryland Irrigation and Farm Profitability Under Dual-Source Water Supply: A Case Study of the Arad Valley Agriculture Farm | Udi Ben Ari

14:40–15:00 | Daily Heat Load and Its Impact on Production and Reproductive Performance in Israeli Dairy Herds | Dr. Yaniv Lavon

15:00–15:15 | Coffee Break

SESSION 3 part II

15:15–15:35 | Predicting Plant Pest and Disease Distribution Under Changing Climate Scenarios | Dr. Lior Blank

15:35–15:55 | Modeling weed dynamics and management across climatic gradients: a data-driven approach to decision support | Dr. Roni Gafni

15:55–16:15 | Spectral estimation of selected phytochemical and nutrient contents in rosemary | Prof. Ittai Herrmann

16:15–16:25 | Closing remarks

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