







## The 30<sup>th</sup> Evenari symposium:

## Digital agriculture for efficient resources utilization

June 19, 2019

## Sede Boger Campus

## GEORGE EVENS FAMILY AUDITORIUM

The Evenari symposium is an annual gathering of plant and agriculture scientists and enthusiasts in honor of the late Prof. Michael Even-Ari at Sede Boqer campus. This year's topic highlights basic and applied research on sensing, imaging and data analysis for optimal resources use in agriculture.

| 09:20-11:00 | Greetin             | ngs and Innovations in monitoring (Chairperson: Jhonathan Ephrath)   |
|-------------|---------------------|--|
| 09:20-09:40 |                     | Jhonathan Ephrath, Head, The French Associates Institute for Agriculture and Biotechnology of Drylands, , Ben-Gurion |
|             |                     | University of the Negev  |
|             |                     | Noam Weisbrod, Director, Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev          |
|             |                     | Yitzhak Gutterman, Ben-Gurion University of the Negev  |
| 09:40-10:05 |                     | Sabina Haber Imaging of root zone processes using MRI  |
| 10:05-10:30 |                     | Andreas Pohlmeier MRI as a noninvasive method to study solute distribution in soil                                   |
| 10:30-1     | .1:00               | Jiftah Ben-Asher Robot, camera of mobile phone and smart farming   |
| 11:00-11:20 | Coffee              | break  |
| 11:20-13:00 | Sensing             | g and data analysis (Chairperson: Yael Edan)   |
| 11:20-1     | .1:40               | Ofer Dahan New monitoring system for real time continuous measurement of nitrate                                     |
|             |                     | concentration in unsaturated soils   |
| 11:40-12:00 |                     | Shabtai Cohen Tree sap flow measurement, integration and insights  |
| 12:00-12:20 |                     | Jonathan Rosenblatt Multivariate Visual Analytics for Data Quality in Precision Agriculture and Livestock Farming    |
| 12:20-12:40 |                     | Alex Furman Geophysical monitoring of the root zone  |
| 12:40-1     | .3:00               | Gilad Ravid Applying machine learning on sensor data for irrigation recommendations                                  |
| 13:00-14:30 | Lunch a             | and Posters  |
| 14:30-16:10 | Imagin              | g in Agriculture (Chairperson: Naftali Lazarovitch)  |
| 14:30-1     | .4:50               | Yael Edan Robotics in the digital era  |
| 14:50-1     | .5:10               | Yafit Cohen Development of spatial decision support tools for pest control   |
| 15:10-1     | .5:30               | Ran Lati 3-D image-driven plant phenotyping models from the lab to the field   |
| 15:30-1     | .5:50               | Rafi Linker Vision-based estimation of yield in apple orchards: Lessons learned from developing various approaches   |
|             |                     | using datasets with contrasting properties   |
| 15:50-1     | 6:10                | Amir Lasry Continues phenotyping of root length using CNN  |
| 16:10       | :10 Closing remarks |  |