

1st African Conference on Precision Agriculture



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1st African Conference on Precision Agriculture

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PRECISION AGRICULTURE *in ACTION* for AFRICA

LOCAL PRESENTATIONS/POSTERS & ON DEMAND CONTENT

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paafrica.org | #AfCPA2020



LOCAL PRESENTATIONS/POSTERS & ON DEMAND CONTENT

Welcome to the **1st African Conference on Precision Agriculture (AfCPA)**. Below are lists of oral and poster presentations originating from your conference site. The list of on demand presentations were selected to be recorded in advance. A selection of these recordings are listed on your local conference agenda, but all on demand video content is available to conference registrants from the website.

CAIRO ORAL PRESENTATIONS

Smart agriculture as a tool to adapt to climate change. / **Ayman F. Abouhadeed**

Precision farming technology to increase soil and crop productivity in Egypt using remote sensing and GIS. / **Abdelaziz Belal**

Decision support system for precision agriculture management case study: El Salihiya – East Nile delta, Egypt. / **Elsayed S. Mohamed**

Proximal sensors for precision agriculture. / **Said Nawar**

Impact of sensor-based precision nitrogen management on wheat yield and nitrogen use efficiency. / **Abdou Soaud**

Using site-specific management zones for potato crop management, East Nile delta, Egypt. / **Mohamed E. Jalhoum**

Irrigation water management for potato crop under pivot irrigation system using remote sensing techniques. / **Mohammed El-Shirbeny**

Spatial interpolation for mapping hydraulic soil properties in GIS. environment / **Mohamed A. Abdelrahman**

ON DEMAND CONTENT - RECORDED

Implementation of Proximal Soil Sensing, Data Fusion and Machine Learning to Improve Phosphorus Management at a Field Scale / **Abdelkrim Lachgar**

Nutrient management tailored to smallholder agriculture enhances productivity and sustainability / Pauline Chivenge / **Pauline Chivenge**

A precision irrigation app for smart water management by farmers / **Aziz Abouabdillah**

Monitoring irrigation water use at large scale irrigated areas using remote sensing in water scarce environment / **Mohamed Hakim Kharrou**

Mechanisation of smallholders in Zambia by agrodealer development / **Sven Peets**

A review on Sensor based robotics agriculture: Improving traditional Agriculture Practices / **Sachin C Karad**

LiDAR-based soybean crop segmentation for autonomous navigation / **Vitor A Higuti**

Estimating soil organic carbon from cell phone images / **Asim Biswas**

Cashew Trees Detection and Yield Analysis using UAV-based Map / **Thierry Roger Bayala**

Estimating greensnap yield damage with canopy reflectance: a case study / **Gabriel Dias Paiao**

Market Acceptance and Willingness to Pay for Drone Technology in the Application of Pesticide for the Control of Fall Armyworm / **Selorm Omega**

Spectral assessment of chickpea morpho-physiological traits from space, air and ground / **Ittai Herrmann**

Development of Canopy Mapping System of Asian pears (*Pyrus pyrifolia* Naka) Using Terrestrial Laser Scanning / **Jaehwan Lee**

Development of Lodging Direction Determination System Using Image Processing / **Yuta Arai**

Monitoring Corn (*Zea mays*) Yield using Sentinel-2 and Machine Learning for Precision Agriculture Applications / **Ahmed Kayad**

Excellence in Agronomy 2030: A new CGIAR-wide initiative to deliver agronomy solutions at scale / **Bernard Vanlauwe**