

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.

TUNIS ORAL PRESENTATIONS

CropSAT – opportunities for applications in precision agriculture in Africa / **Omran Alshihabi**

Soil organic carbon mapping in Tunisia: comparison of different interpolation methods / **Meriem Barbouchi**

Determinants of the adoption of an intelligent monitoring system and effects on farms performance in Tunisia / **Jamel Ben Nasr**

Analysis, design and development of a web and mobile application for fertilizer olive orchards recommendations / **Ajmi Larbi**

Crop water requirements, biomass and grain yields estimation for Sulla (Hedysarum coronarium L.) using cropwat in semi-arid regions of Tunisia. / **Rim Hajri**

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**

TUNIS POSTERS

Some essential nutrients, active limestone and pH status of Tunisian soils. / **Amira Hachana**

Small Machinery for Sustainable Intensification of Crop-Livestock System under Biomass Shortage / **Udo Rudiger**