1st African Conference on Precision Agriculture
8-10 December 2020

Ibadan, Nigeria

LOCAL PRESENTATIONS/POSTERS & ON DEMAND CONTENT

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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.

### LOCAL PRESENTATIONS/POSTERS & ON DEMAND CONTENT

**Mapping of soil nutrients variability in some plantation crops in Abeokuta, Ogun State Nigeria.** / **Ruth T Basil**

**Evaluation of on –farm oil palm yield parameters in Niger Delta region of Nigeria** / **Frank Ekhator**

**Fertilizer Micro-dosing on Growth and Vegetative Yield of Fluted Pumpkin (Telfairia occidentalis Hook. f)** / **Bamidele Amujoyegbe**

**Mapping of micronutrients status in soils under multivarietal Citrus sinensis production for precision agriculture** / **Bernard N Okafor**

**Spatial variability and mapping of selected soil quality indicators for precision farming at a smallholding level in Minna, Nigeria** / **Baba Abubakar Lawal**

**Methodology for Assessing Nutrient Status of Nigeria Croplands: AfSIS/ NisS Pilot Project - Pathway for Precision Agriculture Mapping** / **Vincent Aduramigba-Modupe**

**Predicting in-Season Sorghum yield potential using Remote Sensing Approach: a case study of Kano in Sudan Savanna agro-ecological zone, Nigeria** / **AbdulAzeez Tukur**

### IBADAN ORAL PRESENTATIONS

**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**

**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**

### IBADAN POSTERS

**Land degradation risk assessment at a site in Afijio local government area of Oyo State, Nigeria** / **Oluwabunmi A Denton**

**Digital mapping of exchangeable cations in soils of southwestern Nigerias** / **Oluwatosin E Awosiyi**

**Nutrient Quality Studies of Fluted Pumpkin (Telfairia Occidentalis Hook. F) Leaves as Influence by Fertilizer Micro-dosing and Times** / **Bamidele J Amujoyegbe**

**Scaling Precision Agriculture in West Africa Smallholder Irrigation and Water Management Systems** / **Adebayo O Oke**