INTERNATIONAL WORKSHOP ON

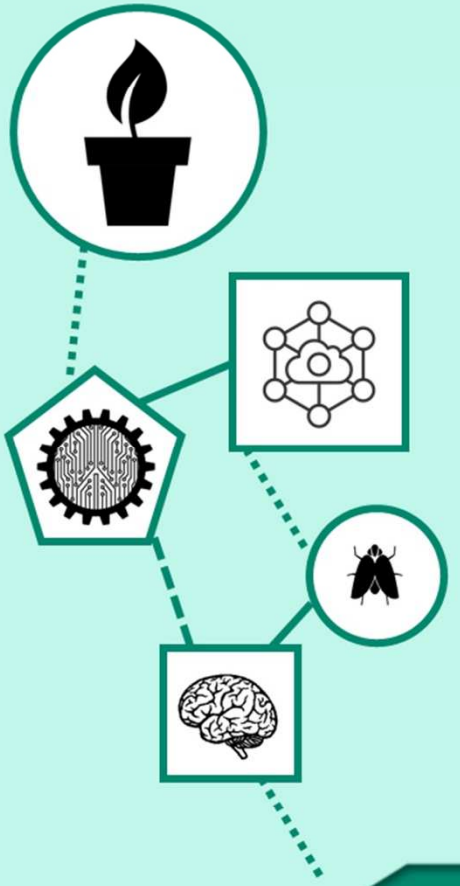
APPLIED COMPUTING IN AGRICULTURE

March 4-5, 2022 via Zoom and FB live

Register now
(Day 1 and Day 2 lecture+hands-on tutorial only)
https://bit.ly/33CXcTQ

Day 2 hackathon pre-registration
https://bit.ly/3GqXY53

For more information
https://sites.google.com/view/agriapp2022



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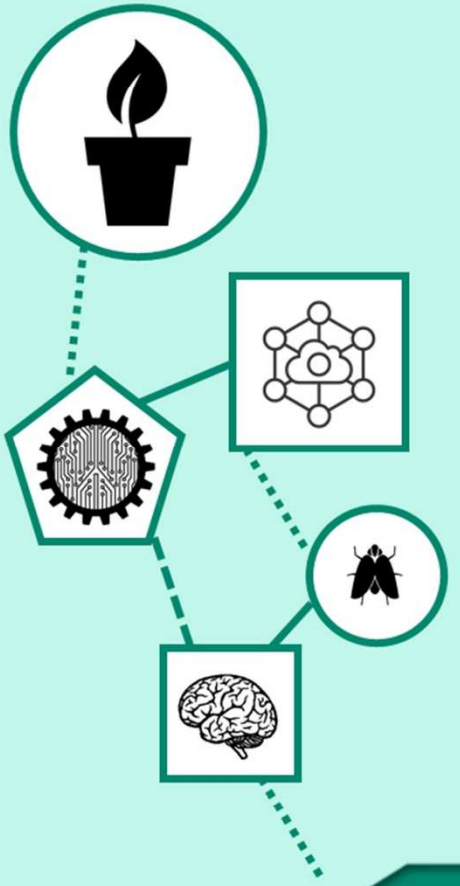
MARCH 4, 2022 **DAY 1**

(8:00 – 18:00 PHT, UTC+8)

Talks about how artificial intelligence (AI), automation, data science, and related concepts are applied in agriculture

Themes:

a. Smart Agricultural Technology in the Philippines
b. Internet of Things in Agriculture
c. Robotics and Automation in Agriculture
d. Artificial Intelligence in Agriculture



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MARCH 5, 2022 **DAY 2**

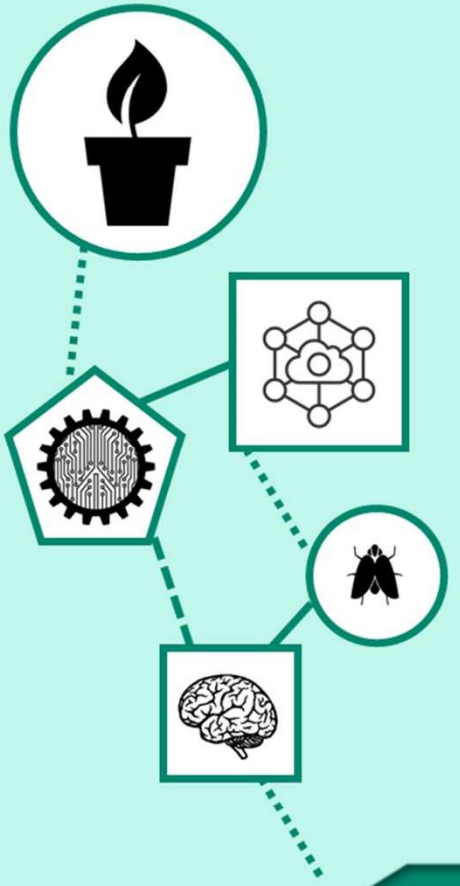
(9:00 – 18:00 PHT, UTC+8)

Lecture, hands-on tutorial, and hackathon (with certificate and prize)

Parallel tracks:

a. Deep learning in Agriculture
b. Internet of Things in Agriculture

*Hackathon participation requires pre-registration



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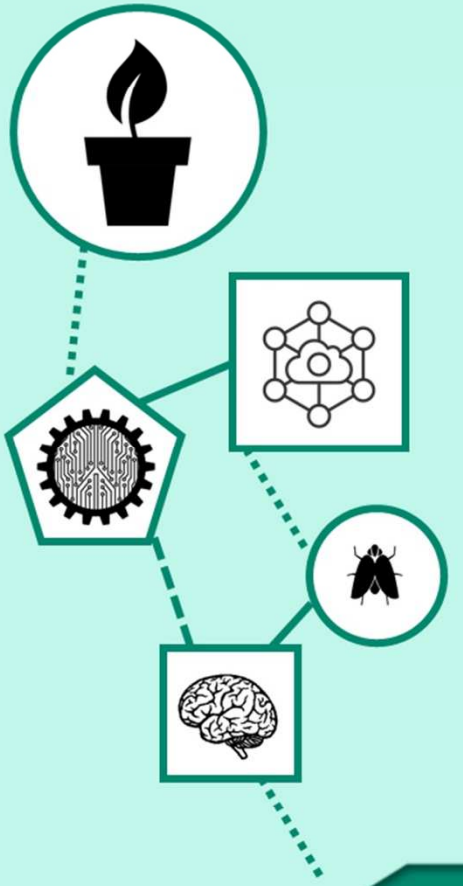
TARGET AUDIENCE

Guests with the following fields of interest:

Agriculture
Agronomy
Agricultural engineering
Computer science
Computer engineering
Electronics engineering
Mechanical engineering
Plant pathology
Veterinary science
...and all other allied fields



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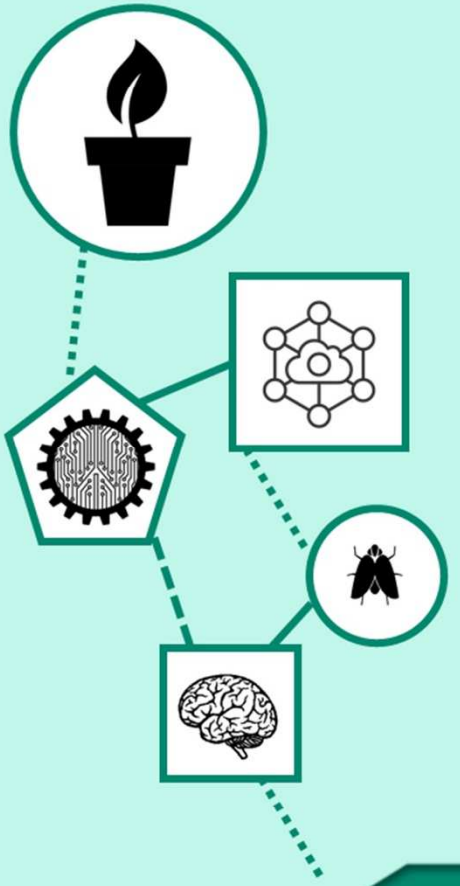
Day 1 Session 1 (March 4, 9:00-10:30 UTC+8):
Smart Agricultural Technology in the Philippines

9:00 – 9:30
Status of Agriculture and Smart Farming in the Philippines
Reynaldo Ebora
DOST-PCAARRD, Philippines

9:30 – 10:00
Smart Farming and its Role in Decision-making: A Glimpse of Smart Agriculture in the Philippines
Emmie Marie Rosales
De La Salle Araneta University, Philippines

10:00 – 10:30
Proving the Potential of Smart Agriculture using Cost-effective AIoT Systems
Dan Jeric Arcega Rustia
De La Salle University - Manila, Philippines



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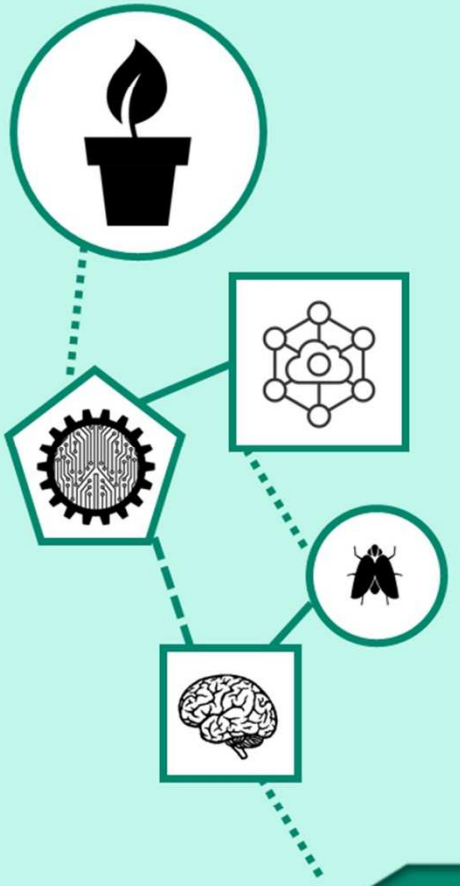
Day 1 Session 2 (March 4, 10:45-11:15 UTC+8):

Internet of Things, Connectivity, and Big Data in Agriculture

10:45 – 11:15
Embedded Systems and Internet of Things for Smart Farming
Jocelyn Villaverde
Mapua University, Philippines

11:15 – 11:45
Harnessing Deep Learning Networks on IoT Devices for Weed Identification
Dharmendra Saraswat
Purdue University, USA

11:45 – 12:15
Plant Phenotyping Technology to Enhance Next Smart Agriculture
Takashi Okayasu
Kyushu University, Japan



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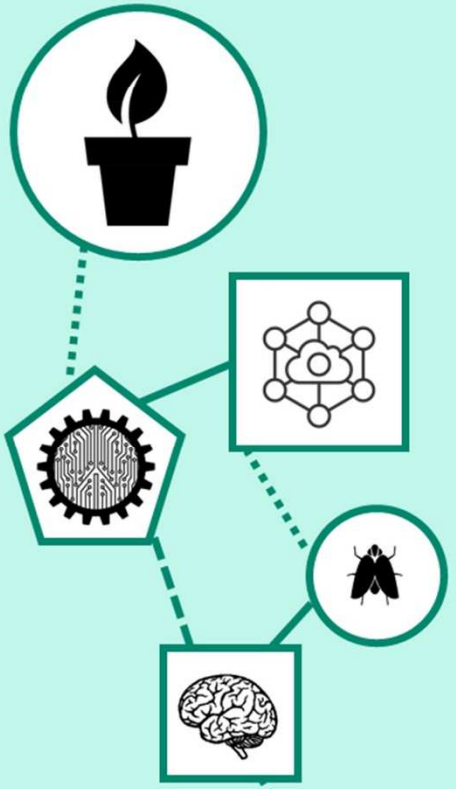
Day 1 Session 3 (March 4, 13:30-15:00 UTC+8):
Robotics and Automation in Agriculture

13:30 – 14:00
AGROTIS the GPS Guided Hand Tractor Robot for Philippine Agricultural Applications
Anthony James Bautista
University of Santo Tomas, Philippines

14:00 – 14:30
A Collaborative Robot for Tea Harvesting
Ping-Lang Yen
National Taiwan University, Taiwan

14:30 – 15:00
Machine Vision-Guided Robotic Automation for Smart Manufacturing
Yang Tao
University of Maryland, USA



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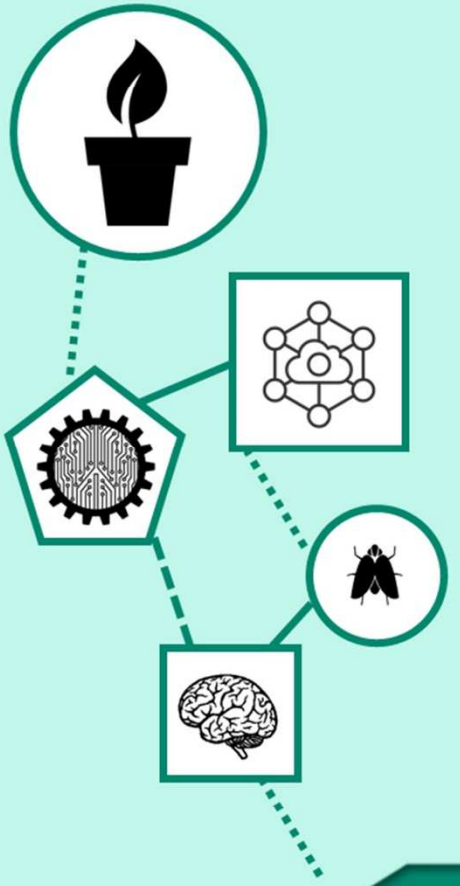
Day 1 Session 4 (March 4, 15:30-16:00 UTC+8):
Artificial Intelligence in Agriculture

15:30 – 16:00
ML-enabled Technologies and Opportunities in PH farming
Macario Cordel II
De La Salle University, Philippines

16:00 – 16:30
Identifying Tomato Leaf Diseases Using Convolutional Neural Networks and a Chatbot
Yan-Fu Kuo
National Taiwan University, Taiwan

16:30 – 17:00
Early Detection of Plant Disease Infection using Hyperspectral Data and Artificial Intelligence
Siti Khairunniza Bejo
Universiti Putra Malaysia, Malaysia



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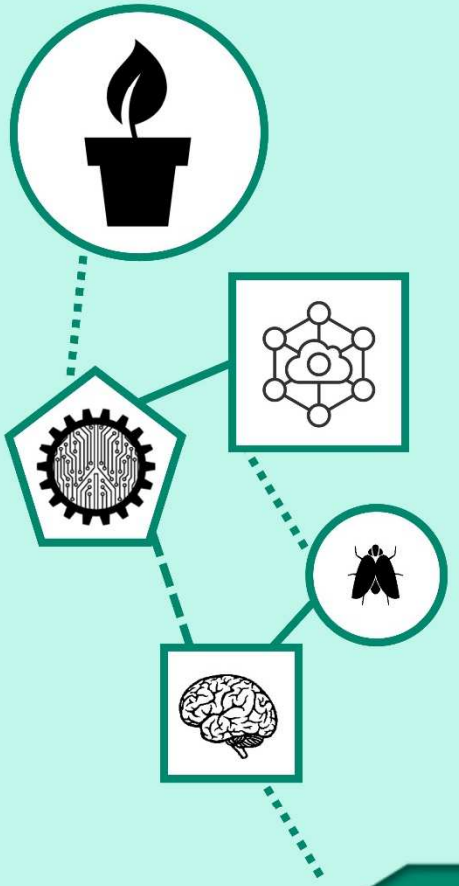

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