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Acceptance of Your Paper ID 3180 for the ECTI DAMT and NCON 2025 International Conference

1 message

ECTI DAMT and NCON 2025 <ectidamtandncon2025@easychair.org>

Thu, Dec 19, 2024 at 9:53 PM

To: Pratya Nuankaew <pratya.nu@up.ac.th>

Dear Pratya Nuankaew,

The decision for the paper ID 3180 entitled Harnessing AI for Agriculture: Applying Deep Learning Approaches to Detect and Classify Native Thai Vegetables in Specific Areas of Thailand is "Accept with Major Revision" for the ECTI DAMT and NCON 2025 and review results are shown below. Please revise and update your manuscript to the system by 30 December 2025, then the review processes will start again.

Please use the conference format on Microsoft Word (A4), available at <https://www.icdamt.org/submission/>.

If you have any inquiries, please feel free to contact us.

Best Regards,
ECTI DAMT and NCON 2025 Committee

SUBMISSION: 3180

TITLE: Harnessing AI for Agriculture: Applying Deep Learning Approaches to Detect and Classify Native Thai Vegetables in Specific Areas of Thailand

----- REVIEW 1 -----

SUBMISSION: 3180

TITLE: Harnessing AI for Agriculture: Applying Deep Learning Approaches to Detect and Classify Native Thai Vegetables in Specific Areas of Thailand

AUTHORS: Wongpanya S. Nuankaew, Kittiphob Saibunyang, Rattanawan Hongmo, Thapanapong Sararat and Pratya Nuankaew

----- Overall evaluation -----

SCORE: 1 (minor revision)

----- TEXT:

The manuscript titled "Harnessing AI for Agriculture: Applying Deep Learning Approaches to Detect and Classify Native Thai Vegetables in Specific Areas of Thailand" presents a research topic with potential to contribute significantly to agricultural technology and pitch recognition skill development.

The study focuses on utilizing deep learning techniques to identify native Thai vegetables from Northern Thailand. A dataset comprising 2,400 images of ten vegetable species was collected from Phayao Province. Among six tested convolutional neural network (CNN) models, MobileNetV1 achieved the highest accuracy (98.50%), making it suitable for mobile applications due to its computational efficiency. The researchers also developed a mobile application prototype to identify vegetables, highlight their benefits, and share traditional recipes. This initiative supports biodiversity, sustainable farming, healthier diets, and local economic growth.

To ensure the manuscript meets publication standards for The 10th International Conference on Digital Arts, Media and Technology (DAMT) and The 8th ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (NCON), I recommend the following modifications:

Specific Edits:

Abstract Section:

Revise the abstract to follow a structured format: introduction, objectives, research design, methods, results, and conclusion. This will provide clarity and improve readability.

Introduction:

The statement "CNNs are specifically proficient in recognizing complicated patterns and features from image information, providing higher levels of accuracy than traditional identification methods" requires references to traditional identification methods to support the claim.

Materials and Methods:**Figure 2 - Dataset Images:**

Present the original, unadjusted images in Figure 2 to provide a more authentic representation of the dataset.

Model and Device Specifications:

Include detailed specifications of the mobile devices used to analyze the models. Additionally, provide the specifications of the computer systems utilized for training, validation, and testing accuracy.

Epoch Selection:

Explain why the training process was limited to 60 epochs. Provide references or justification for this choice.

Discussion Section:

Incorporate comparisons with related previous works to contextualize the study's findings and highlight its contributions to the existing body of knowledge.

----- REVIEW 2 -----

SUBMISSION: 3180

TITLE: Harnessing AI for Agriculture: Applying Deep Learning Approaches to Detect and Classify Native Thai Vegetables in Specific Areas of Thailand

AUTHORS: Wongpanya S. Nuankaew, Kittiphob Saibunyang, Rattanawan Hongmo, Thapanapong Sararat and Praty Nuankaew

----- Overall evaluation -----

SCORE: 0 (major revision)

----- TEXT:

Please provide more details about dataset preparation.

1. Number of raw images.
2. Number of augmentation images.
3. How many augmented images per an original image.
4. Are you sure that the validation dataset and test dataset do not include augmented images.
5. How did you take a photo of each type of vegetable (The dataset is completely independent from each other ?)
6. The training images use only the leaf part so for the application you should add some guidance for users to take a photo.