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8th International Conference on Smart Computing and Informatics : Submission (477) has been created.

1 message

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Fri, Mar 13, 2026 at 7:02 PM

Hello,

The following submission has been created.

Track Name: SCI2026

Paper ID: 477

Paper Title: Computer Vision-Based Detection and Classification of Land for Sale and Advertisement Signboards with Google Maps Visualization and UX/UI Evaluation

Abstract:

This research presents the design of a prototype web application to detect and classify land sale and advertising signs in photographs. The system supports spatial data management and tax calculation for local authorities. It uses the YOLOv11-Seg model for detection and segmentation, complemented by OCR for text extraction and classification. The system determines the location from image coordinates and displays it on Google Maps with an error margin of approximately 5–10 meters. Additionally, it automatically estimates sign size from images for tax purposes. Data was collected in Mae Ka Subdistrict, Mueang District, Phayao Province, in front of Phayao University, with a total of 787 images—481 of land sale signs and 306 of advertising signs. Evaluation by 46 users yielded high UX and UI scores of 4.34 and 4.19, respectively, along with a 4.24 alignment score, indicating the system's potential for real-world application.

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Secondary Subject Areas: Not Entered

Submission Files:

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Submission Questions Response: Not Entered

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