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8th International Conference on Smart Computing and Informatics : Submission (731) has been created.

1 message

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Tue, Mar 31, 2026 at 9:37 PM

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The following submission has been created.

Track Name: SCI2026

Paper ID: 731

Paper Title: Prototype System for Educational Management and Early Warning in Educational Emergencies in Rural Communities of Thailand

Abstract:

This study aimed to develop and evaluate a prototype system to manage education and provide early warnings during emergencies in rural Thai communities, with a focus on Phayao Municipality. The system was designed to integrate data from various sources, including sensor data, central disaster reports, user-uploaded incident images, and geographic data, to support risk monitoring, impact assessment, and emergency planning for schools. Using a prototype-based approach, the research covered system requirements analysis, architecture design, UX/UI development for both mobile and web platforms, and functional and usability testing. Results demonstrated that the prototype could collect and process multi-source data, display incident locations on maps, determine risk zones within 1, 3, 5, and 10 kilometers, and offer recommendations via dashboards and alerts. The mobile app allowed quick incident reporting and alerts, while the web app facilitated spatial analysis and decision-making support. User feedback showed high satisfaction, indicating that the prototype was useful, easy to understand, and suitable for supporting emergency management at the local level. These findings confirm the viability of integrating educational management, early warning, and spatial decision support into a single operational system.

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Authors:- pratya.nu@up.ac.th (Primary)

Secondary Subject Areas: Not Entered

Submission Files:[SCI_2026_PID_000@sciconf.co](#) - 1stDraft [2026-03-31] - no author.pdf (489 Kb, Tue, 31 Mar 2026 14:37:19 GMT)

Submission Questions Response: Not Entered

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