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2nd Networking International Conference on Emerging Trends in Expert Applications & Security 2026 : Submission (399) has been created.

1 message

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Thu, Apr 30, 2026 at 7:41 AM

Hello,

The following submission has been created.

Track Name: NICETEASEUROPE2026

Paper ID: 399

Paper Title: Association Rule Mining for Discovering Relationships among Thai Tax Deduction Claims Using the Apriori Algorithm

Abstract:

This research proposes a conceptual framework and a web application prototype for discovering relationships among Thai tax deduction claims using the Apriori algorithm. The study focuses on transforming tax deduction items into transaction-based data for association rule mining. The Apriori algorithm was applied to identify co-occurrence patterns among deduction items and generate association rules using Support and Confidence values. The prototype allows users to enter tax deduction items, add or remove inputs, and view related deduction items through a clear UX/UI design. The system presents discovered relationships, along with Support, Confidence, and item group information, to help users interpret tax deduction patterns more easily. The prototype was evaluated by 38 computer science students from the School of Information and Communication Technology at the University of Phayao. The evaluation results showed high user satisfaction, with an overall mean score of 4.15 and a standard deviation of 0.92. These findings indicate that the proposed approach can help users understand relationships among Thai tax deduction items and serve as a foundation for further development of data-driven tax deduction analysis tools.

Created on: Thu, 30 Apr 2026 00:41:19 GMT

Last Modified: Thu, 30 Apr 2026 00:41:19 GMT

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Primary Subject Area: Emerging Trends in Expert Applications and App Development

Secondary Subject Areas: Not Entered

Submission Files:

[NICE-TEAS_2026_07_PID_xxx@nice-teas.com](#) (003) - Submission File [2026-04-30] - no author.pdf (410 Kb, Thu, 30 Apr 2026 00:38:36 GMT)

Submission Questions Response:

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Association Rule Mining for Discovering Relationships among Thai Tax Deduction Claims Using the Apriori Algorithm

4. .

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