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Development of a New Metric to Identify Rare Patterns in Association Analysis: The Case of Analyzing Diabetes Complications

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**Highlights**

- This research aims to address the *rare item detection* problem in association rule mining
- A new assessment metric, called `adjusted_support`, is proposed for rare items detection
- A large size dataset with the data of about 600,000 patients is used to test the proposed metric
- `Adjusted_support` is applied to discover rare association rules for diabetes complications
- Comorbidity index of diabetic patients in various demographic groups is analyzed

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