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A rough set approach for approximating differential dependencies

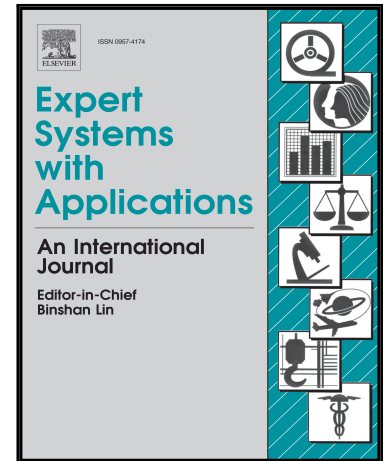
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Highlights

- A differential-relation-based rough set model on relational databases is proposed.
- Using this model, the measures for differential dependencies (DDs) are expressed.
- An efficient method to compute the approximate error measure of g_3 for DDs is developed.
- The rough sets on the differential decision systems (DDSs) are introduced.
- A bridge between DDs in databases and attribute dependencies in DDSs is formed.

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