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INTEGRATED PROCESSING OF COMPLEX EVENTS IN DATA-FLOW SYSTEMS EXEMPLIFIED BY DETECTING BANK CHECKS FRAUD

The paper analyzes the trend of events in data-flow systems through the example of detecting the fraud with uncovered checks. The analysis is based on the complex event processing (CEP) technology. The authors propose an algorithm based on BTree and Hash type indices for extracting a complete chain of events of any length. The comparison with the existing algorithm based on creating the trends of events in the form of graphs is made.

Keywords: data-flow systems, event processing, fraud detection.

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