

## **Process Mining for SME Automation (2021)**

**Abstract:** This paper (2021) investigates process mining for sme automation in the context of BIS. We propose a workflow combining event logs, conformance checking, automation ROI. Method: Causal inference with propensity matching. Dataset: Public benchmark dataset (n=50,000) plus internal holdout set. Metrics: NPV, PPV, sensitivity, specificity.

**Methods & Data:** Causal inference with propensity matching. Public benchmark dataset (n=50,000) plus internal holdout set.

**Results:** Results are strong but depend on aggressive preprocessing and exclusion criteria.

**Limitations:** Small sample size for minority classes; confidence intervals are wide.