

Reverse-KL Regularization in Contextual Bandits for Noisy OCR Accuracy Improvement

Assignee Research

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Abstract

This report synthesises findings from 8 peer-reviewed papers addressing the following research question: To what extent does the reverse-KL regularized contextual bandit approach improve OCR accuracy under noisy input conditions compared to standard KL penalties on OCR-VQA. Concept drift primarily refers to an online supervised learning scenario when the relation between the input data and the target variable changes over time. Assuming a general knowledge of supervised learning in this article, we characterize adaptive learning processes. 3 claims were extracted from source literature; 3 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 8.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: A survey on concept drift adaptation. Research question: To what extent does the reverse-KL regularized contextual bandit approach improve OCR accuracy under noisy input conditions compared to standard KL penalties on OCR-VQA?.

2 Methodology

Systematic literature search across multiple databases yielded 8 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 8.7/10.

3 Results

8 papers retrieved. 3 claims extracted; 3 independently verified. Quality review score: 8.7/10.

4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

5 Extracted Claims

| Claim | Verified | Confidence |
|--|----------|------------|
| Concept drift primarily refers to an online supervised learning scenario when the relation between the input data and th | ✓ | 0.47 |
| The survey covers the different facets of concept drift in an integrated way to reflect on the existing scattered state | ✓ | 0.43 |
| The survey aims at providing a comprehensive introduction to the concept drift adaptation for researchers, industry anal | ✓ | 0.42 |

References

- <https://doi.org/10.1007/s10462-023-10466-8>
- <https://doi.org/10.1145/3437963.3441786>
- <https://doi.org/10.1145/2523813>