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# **An easy-to-use evaluation framework for benchmarking entity recognition and disambiguation systems**

**Key words:** Entity recognition and disambiguation (ERD); Evaluation framework; Information extraction

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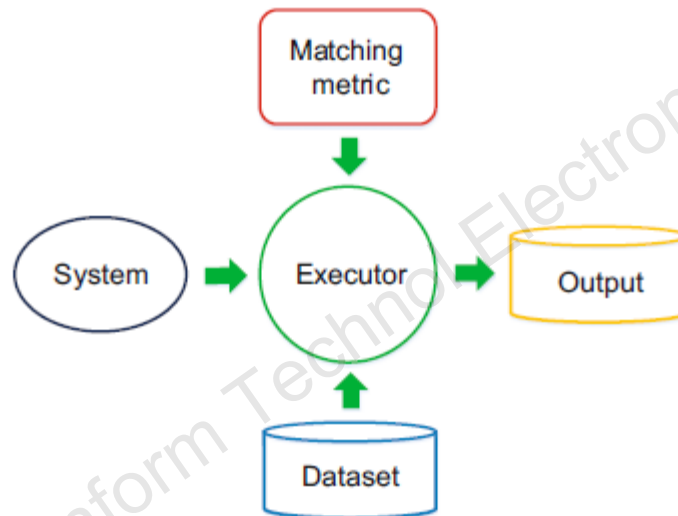
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# Introduction

- There is some confusion over the performances of current ERD systems.
- This situation gives rise to the development of a framework to unify and facilitate the evaluation process.
- We introduce an evaluation framework for benchmarking ERD systems, which has already integrated several popular publicly available ERD systems, datasets, and evaluation metrics.

# Proposed framework

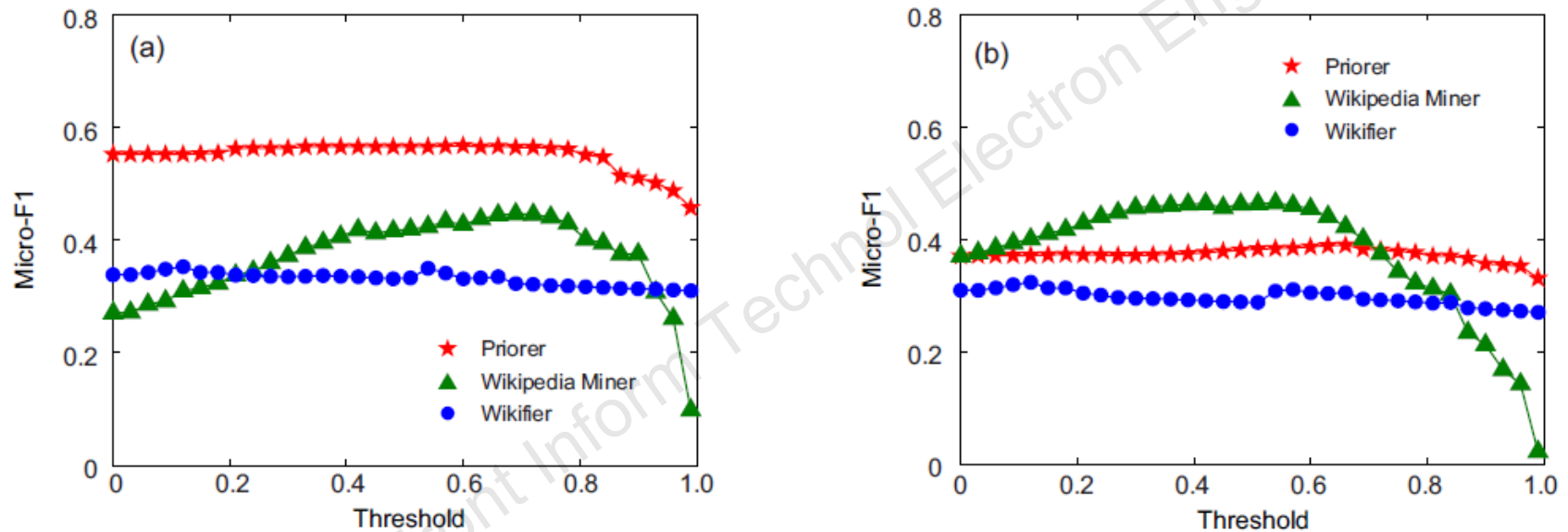


**Fig. 1** Architecture of EUEF, which is modular in design and well extensible

# Integrated systems and datasets

- Systems
  - Wikipeida Miner
  - Illinois Wikifier
  - Priorer
- Datasets
  - AIDA
  - MSNBC
  - ACE

# Measurement results



**Fig. 2** Results on three ERD systems' performance in two datasets with different iterative thresholds: (a) MSNBC; (b) AQUAINT

# Conclusions

- In this paper, we propose a framework EUEF, which aims at facilitating the evaluation process and giving fair comparison and detailed analysis of various ERD systems.
- With fair and exhaustive comparisons based on EUEF, it is more convenient to discover the advantages and disadvantages of various ERD systems.