Paper Summary

<!--META START-->

Title: Metrics for What, Metrics for Whom: Assessing Actionability of Bias Evaluation Metrics in NLP

Authors: Pieter Delobelle, Giuseppe Attanasio, Debora Nozza, Su Lin Blodgett, Zeerak Talat

DOI: 10.18653/v1/2024.emnlp-main.1315

Year: 2024

Publication Type: Journal/Conference Proceedings (EMNLP 2024)

Discipline/Domain: Natural Language Processing, AI Ethics

Subdomain/Topic: Bias evaluation metrics, actionability assessment

Eligibility: Eligible

Overall Relevance Score: 95

Operationalization Score: 90

Contains Definition of Actionability: Yes

Contains Systematic Features/Dimensions: Yes

Contains Explainability: Partial

Contains Interpretability: Yes

Contains Framework/Model: Yes (desiderata-based framework)

Operationalization Present: Yes

Primary Methodology: Review and Conceptual Framework + Qualitative Analysis

Study Context: NLP bias measures

Geographic/Institutional Context: International (Authors from KU Leuven, Instituto de Telecomunicações

Target Users/Stakeholders: NLP researchers, metric developers, practitioners, policymakers, regulators

Primary Contribution Type: Conceptual framework + systematic literature review

CL: Yes

CR: Yes

FE: Yes

TI: Partial

EX: Partial

GA: Yes

Reason if Not Eligible: N/A

<!--META_END-->

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- **DOI:** 10.18653/v1/2024.emnlp-main.1315
- **Year:** 2024
- **Publication Type:** Conference Proceedings (EMNLP 2024)
- **Discipline/Domain:** Natural Language Processing, Responsible Al
- **Subdomain/Topic:** Bias evaluation metrics, actionability, metric design
- **Contextual Background:** The paper situates itself in the context of growing use of bias measures in NI
- **Geographic/Institutional Context:** Belgium, Portugal, Italy, Canada, UAE
- **Target Users/Stakeholders:** NLP researchers, fairness auditors, AI developers, policymakers, regulate
- **Primary Methodology:** Conceptual framework + systematic literature review (146 papers)
- **Primary Contribution Type:** Definition and framework for "actionability" of bias measures + review-bas ## General Summary of the Paper

The authors define *actionability* in bias measures as the degree to which a measure's results enable in ## Eligibility

Eligible for inclusion: **Yes**

How Actionability is Understood

Actionability is "the degree to which a measure's results enable decision-making or intervention" — result

- > "Actionability refers to the degree to which a measure's results enable decision-making or intervention.
- > "...results from actionable bias measures should facilitate informed actions with respect to the