Integrating Argumentation Features for Enhanced Propaganda Detection in Arabic Narratives on the Israeli War on Gaza

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Abstract

Propaganda significantly shapes public opinion, especially in conflict-driven contexts like the Israeli-Palestinian conflict. This study explores the integration of argumentation features, such as claims, premises, and major claims, into machine learning models to enhance the detection of propaganda techniques in Arabic media. By leveraging datasets annotated with fine-grained propaganda techniques and employing crosslingual and multilingual NLP methods, along with GPT-4-based annotations, we demonstrate consistent performance improvements. A qualitative analysis of Arabic media narratives on the Israeli war on Gaza further reveals the model's capability to identify diverse rhetorical strategies, offering insights into the dynamics of propaganda. These findings emphasize the potential of combining NLP with argumentation features to foster transparency and informed discourse in politically charged settings.

1 Introduction

Propaganda is a form of communication aimed at influencing attitudes and behaviors by presenting one-sided or misleading information. It often relies on emotional appeals rather than rational argumentation to manipulate public perception and advance specific agendas or ideologies.

In the digital era, the rise of social media has amplified the spread of propaganda, enabling its rapid dissemination to global audiences with little oversight. This has heightened its potential impact, as seen in events like the 2016 U.S. Presidential Election (Ali and ul abdin, 2021) and during the COVID-19 pandemic (Broniatowski et al., 2020), where social media platforms were used to polarize opinions and undermine trust in democratic institutions.

The detection of propaganda is especially critical in conflict-driven contexts, such as the narratives surrounding the Israeli war on Gaza. These narratives often employ polarizing rhetoric, emotionally charged language, and manipulative techniques to shape public opinion and justify political or military actions. Arabic media, both traditional and digital, plays a central role in constructing these narratives, given the geopolitical significance of the Arabicspeaking world. In such contexts, propaganda can be a powerful tool for inciting violence, manipulating perceptions, and influencing international discourse. However, detecting propaganda in Arabic poses unique challenges due to the language's rich morphology, diverse dialects, and limited annotated datasets.

Natural Language Processing (NLP) offers a promising avenue for automating propaganda detection by analyzing linguistic patterns and rhetorical cues. While significant progress has been made in high-resource languages like English, relatively little research has focused on Arabic. This disparity highlights the need for approaches tailored to Arabic's linguistic and cultural characteristics.

A promising direction for enhancing propaganda detection is the integration of argumentation features, such as claims and premises. Propaganda and argumentation often share a structural foundation: both involve presenting claims supported by reasoning. However, propaganda diverges by infusing these structures with emotionally charged content designed to manipulate public sentiment (Nettel and Roque, 2012). By identifying argumentation components within texts, it becomes possible to analyze how propaganda leverages these structures to influence audiences, distinguishing between logical persuasion and manipulative communication.

In this work, we aim to improve Arabic propaganda detection by integrating argumentation features into NLP models. We then apply the enhanced models to analyze narratives from Arabic media covering the Israeli war on Gaza. The code used in this study is available at our GitHub repository.¹

¹https://github.com/saranabhani/prop-arg

2 Related Work

2.1 Propaganda Detection in Arabic Texts

A shared task on Propaganda Detection in Arabic was organized at the WANLP 2022 workshop (Alam et al., 2022) to address the notable absence of research on Arabic language propaganda detection. In this shared task, one submission (Hussein et al., 2022) applied basic preprocessing steps like normalization and transformed the data into the BIO format to represent data spans within tweets accurately. They adopted a transfer learning approach by employing the Marefa-NER model, a pre-trained template designed for Named Entity Recognition (NER), demonstrating the model's adaptability to this propaganda detection task.

Building on the momentum of the WANLP 2022 shared task on Propaganda Detection in Arabic (Alam et al., 2022), the organizers introduced the ArAIEval shared task² (Hasanain et al., 2023) focusing on two critical areas: persuasion technique and disinformation detection in tweets and news articles. The top submission (Lamsiyah et al., 2023) achieved first place with a streamlined approach centered around a BERT-based Arabic pre-trained language model encoder coupled with a singular, efficiently structured classifier. In their exploration of input text encoding, the team assessed the performance of three BERT-based Arabic pre-trained language models: ARBERTv2 (Abdul-Mageed et al., 2021), MARBERTv2 (Abdul-Mageed et al., 2021), and AraBERT-large (Antoun et al., 2020). The AraBERT encoder was selected, and the model was trained using an asymmetric multi-label loss.

Capitalizing on the progress achieved by the ArAIEval shared task, the 2024 edition (Hasanain et al., 2024) continued to advance the field of propaganda detection in Arabic text. Task 1 of the shared task focused on Unimodal Propaganda Detection, specifically targeting the identification of persuasive techniques within tweets and news articles written in Arabic. The dataset used for this task comprised tweets derived from Arabic news sources on Twitter, along with news paragraphs sourced from the AraFacts dataset (Sheikh Ali et al., 2021). The annotation process for this dataset involved labeling text snippets with a set of 23 persuasion techniques, building on the work of Piskorski et al. (2023). The top submission for this task came from Labib et al. (2024), which achieved the highest F1 score by integrating data augmentation techniques with model fine-tuning. Their approach involved leveraging a pre-trained Arabic-BERT model (Safaya et al., 2020), which was specifically fine-tuned on the task's annotated data. To address the challenge of class imbalance, the team employed data augmentation strategies such as synonym replacement, which enhanced the model's ability to generalize across different types of persuasive techniques. Another strong submission was from Riyadh and Nabhani (2024), who took advantage of a multilingual BERT model (mBERT) (Devlin et al., 2019) to capture the complexities of Arabic text. Their approach was distinctive in its focus on experimenting with different hidden layers of the model to determine the most effective layer for the task.

Overall, the recent advancements in propaganda detection in Arabic text have predominantly relied on fine-tuning transformer-based architectures and leveraging data augmentation techniques.

2.2 Contextual Features in Propaganda Detection

Relatively few studies have explored the integration of contextual features to enhance the performance of propaganda detection systems. A notable exceptions involve the addition of discourse features to token embeddings, which has shown potential for improving the accuracy of propaganda detection. This study by Chernyavskiy et al. (2024) explored the integration of discourse features into token embeddings to enhance the detection of propaganda in English and Russian. For this they used the dataset from SemEval-2023 (Piskorski et al., 2023). Their approach involved conducting a discourse analysis of the text to identify higher-level organizational structures utilizing the Two-Stage discourse parser (Wang et al., 2017). By embedding these discourse features directly into the token representations, the model gained a richer understanding of the text's structure, which proved beneficial in identifying propagandistic content.

This study highlights the significant impact of incorporating contextual features into token embeddings. This approach provides models with a deeper understanding of the context surrounding propaganda, beyond just the surface-level content of the text. While research in this area is still relatively sparse, the positive outcomes from these studies support the potential of our methodology in this work, suggesting that further exploration could lead to significant advancements in propaganda de-

²https://araieval.gitlab.io/

tection.

3 Data

3.1 Propaganda Detection Dataset

For the propaganda detection task, we utilized the dataset provided by the ArAIEval 2024 shared task on propaganda detection in Arabic text (Hasanain et al., 2024), specifically focusing on Task 1: Unimodal (Text) Propagandistic Technique Detection. This dataset encompasses two primary text genres: tweets and paragraphs extracted from Arabic news articles. Details regarding the data collection and annotation processes are thoroughly documented in the shared task paper (Hasanain et al., 2024). The dataset is publicly accessible via the ArAIEval GitLab repository.³

The dataset is pre-split into training, validation, and test sets, which were directly utilized in this work without modification. Each entry in the dataset contains a unique identifier, the raw text (either a tweet or a news paragraph), and annotations describing the propaganda techniques identified within specific spans of text. Each annotation includes the technique name, the exact text span where the technique occurs, and the character positions marking the start and end of the span. Text spans can be associated with multiple propaganda techniques, and overlapping spans are common.

The dataset includes 23 fine-grained propaganda techniques, derived from the taxonomy proposed by Piskorski et al. (2023). Detailed explanations of each technique, as defined in Piskorski et al. (2023), can be found in Appendix A.

The dataset's structure allows for a comprehensive analysis of propaganda in Arabic texts, accommodating both sequence labeling (to identify specific spans of propaganda) and multilabel classification (to categorize the techniques used).

Table 1 presents detailed statistics, including the sizes of the training, validation, and test sets and the total number of tokens. Figures 1a and 1b in Appendix B visualize the distribution of propaganda techniques across the datasets. Techniques such as Loaded Language and Name Calling are the most frequent, while others, like Straw Man and Guilt by Association, appear less commonly. The label distribution across the training, validation, and test sets is relatively consistent, despite the uneven number of different labels.

	Train	Dev	Test
# Documents	6,997	921	1,046
# Tokens	228,373	27,867	35,204
Avg. Tokens/Doc	32.63	30.25	33.65
Unique Tokens	59,193	13,443	16,108

Table 1: Propaganda dataset statistics

3.2 Argumentation Mining Dataset

To incorporate argumentation features into our study, we utilized the Persuasive Essays (PE) corpus by Stab and Gurevych (2017), as no suitable Arabic datasets aligned with our requirements. This English-language resource, widely used in crosslingual argumentation tasks, comprises 402 essays randomly selected from essayforum.com, each accompanied by writing prompts and annotated with key argumentation components. These components include: Major Claim, representing the central argument typically introduced in the introduction and reinforced in the conclusion; Claim, which supports or challenges the major claim by addressing specific aspects or perspectives; and Premise, consisting of evidence or reasons that justify a claim and explain its validity. The corpus is pre-divided into training and test sets, which we used without modification. Table 2 provides detailed statistics about the corpus. By adapting this robust English dataset through a cross-lingual framework, we aim to extend its applicability to Arabic, leveraging its detailed annotations to enhance our study.

	Train	Test	Total
# Essays	322	80	402
# Paragraphs	1,786	449	2,235
# Tokens	118,645	29,537	148,182
MajorClaim	598	153	751
Claim	1,202	304	1,506
Premise	3,023	809	3,832

Table 2: Argumentation dataset statistics

3.3 Analysis Dataset: News Media Narratives on the Israeli War on Gaza

The dataset used for analyzing news media narratives about the Israeli war on Gaza originates from the FIGNEWS shared task (Zaghouani et al., 2024). This initiative focused on the early stages of the Israel-Gaza conflict, curating a multilingual corpus covering five languages: Arabic, English, French, Hebrew, and Hindi.

³https://gitlab.com/araieval/araieval_ arabicnlp24

The dataset was annotated with multiple layers, including bias labels ("biased against Palestine", "biased against Israel", "unbiased") and propaganda labels ("propaganda", "not propaganda").

The qualitative analysis for this work (Section 8) utilized a sample of 17 examples with Arabic source language from the top-performing system in the shared task, developed by team NLPColab (Abdul Rauf et al., 2024).

4 Baseline for Propaganda Detection

In this study, we use the best-performing system from the ArAIEval 2024 shared task on propaganda detection in Arabic texts by Labib et al. (2024) as our baseline. This system, built on Arabic-BERT (Safaya et al., 2020), achieved an F1 score of 0.2995 by fine-tuning for detecting propagandistic spans and classifying them into 23 techniques. Key features include the BIO tagging scheme for accurate span identification and data augmentation to address class imbalance for less frequent techniques.

While this system was not originally developed as a baseline, we adopt it in this role for our study. Its performance in the shared task makes it an ideal reference point for evaluating the improvements introduced by our approach.

5 Proposed Methodology

This study investigates the enhancement of propaganda detection models by integrating argumentation features. Argumentation features, such as *Major Claim*, *Claim*, and *Premise*, provide a structured representation of the persuasive elements within a text. By leveraging the overlap between argumentation and propaganda, we aim to enrich the model's understanding of the underlying rhetorical strategies.

5.1 Model Architecture

The proposed model builds on a transformer-based architecture with AraBERTv2 (Antoun et al., 2020) as the backbone. This pre-trained model generates rich contextual embeddings for each token, capturing linguistic characteristics in Arabic text. To incorporate argumentation features, we augment these embeddings with additional input, as described below.

Input Representation Each token in the input text is represented by a combination of contextual embeddings and argumentation features. The token embeddings, derived from AraBERTv2, capture the

linguistic and contextual information of each token. Additionally, a one-hot encoded vector of length four represents argumentation features, assigning each token one of four values: *Major Claim, Claim, Premise*, or *None*. These argumentation features, generated by an argumentation analyzer, are concatenated with the token embeddings to create a richer and more comprehensive representation.

Output Representation The model is designed for multi-label classification at the token level, where each token is assigned a binary vector representing the propaganda labels. The vector length corresponds to the number of propaganda techniques considered in the study (23 techniques). A value of 1 in the vector indicates the presence of a specific propaganda technique, while a value of 0 denotes its absence.

5.2 Model Workflow

The proposed model's workflow begins with embedding generation, where the input text is tokenized and processed through AraBERTv2 to produce contextual embeddings. These embeddings are then augmented with argumentation features, which are concatenated to enrich the representation of each token. The enhanced embeddings are passed through a classification layer to compute probabilities for various propaganda techniques. Finally, propagandistic spans are identified by grouping consecutive tokens with identical labels.

6 Argumentation Annotation Methodology

To generate argumentation annotations, we employed two primary approaches:

- 1. **GPT-4 Prompting**: This method involved using GPT-4 to automatically annotate the data.
- 2. Trained Argumentation Model: A dedicated argumentation model was developed and trained on the Persuasive Essays (PE) argumentation data. Once trained, this model was applied to annotate the propaganda dataset.

By implementing these two approaches, we aimed to compare their effectiveness in augmenting the propaganda detection task with argumentation features. This comparison allowed us to evaluate and determine the optimal method for integrating argumentation annotations into the overall framework.

6.1 Argumentation Annotation with GPT-4

We utilized GPT-4o,⁴ an advanced variant of GPT-4, to annotate the propaganda dataset with argumentation features. This approach leverages GPT-4o's ability to adapt without extensive task-specific training, serving as both an evaluation of its effectiveness and a baseline for comparison with trained argumentation models.

Prompt Design and Testing We experimented with different prompting strategies to guide GPT-40 in classifying spans as *Major Claim*, *Claim*, *Premise*, or *None*, using a sample of 10 sentences from the training data. Both sentence-level and word-level approaches were tested, with sentence-level prompts generally producing cleaner and more accurate annotations. In contrast, word-level prompts faced challenges such as fragmented spans and inconsistent labeling, requiring significant post-processing. Additionally, an Arabic, human-translated, version of the most effective sentence-level prompt was tested, maintaining clarity but necessitating further validation through extensive post-processing.

6.2 Argumentation Model Development

To train an argumentation analysis model for Arabic texts, we explored two strategies: monolingual modeling and multilingual modeling. These strategies effectively leveraged annotated English resources while addressing the scarcity of Arabic argumentation datasets.

Monolingual Modeling Monolingual modeling involved using English argumentation data and applying translation techniques to bridge the gap between English and Arabic. Two approaches were employed:

Translate-Train The Translate-Train approach involved translating the English Persuasive Essays (PE) argumentation dataset into Arabic. Annotation projection techniques were then applied to transfer English annotations onto the translated Arabic text, ensuring the preservation of argumentative structures. The resulting Arabic dataset was used to fine-tune a model based on AraBERTv2 (Antoun et al., 2020).

Translate-Test In this approach, RoBERTa-large (Liu et al., 2019), trained on the English PE dataset, was utilized for argumentation detection. Arabic

Multilingual Modeling Multilingual modeling leveraged pre-trained multilingual transformer models, XLM-RoBERTa-large (Conneau et al., 2019), to perform argumentation detection across languages without requiring extensive annotated resources in Arabic.

Zero-Shot Multilingual Modeling The zero-shot approach involved training a multilingual model on the English PE dataset and directly applying it to Arabic propaganda texts.

Translate-Train Multilingual Modeling The Translate-Train Multilingual approach extended the Translate-Train method by combining English PE data and its translated Arabic counterpart into a single training dataset. This approach exposed the multilingual model to both languages, allowing it to learn language-specific features alongside shared linguistic patterns.

Translation and Annotation Projection For both Translate-Train and Translate-Test approaches, translation and annotation projection were critical components. *Translation Methods:* Two machine translation tools were employed: (1) NLLB 1.3B (Team et al., 2022), a multilingual translation model designed to handle diverse languages, including low-resource ones, and (2) Google Translate, which allowed for comparison of translation quality's impact on model performance. *Annotation Projection:* FastAlign (Dyer et al., 2013), a statistical word alignment tool, was used to align annotations between English and Arabic, preserving argumentative structures across translations.

By combining translation methods, annotation projection, and diverse models, our framework effectively addressed the challenges of generating argumentation annotations for Arabic texts, enabling argumentation detection in resource-constrained settings.

Mitigating the Impact of Annotation and Translation Errors The Translate-Train and Translate-Test models rely heavily on automatic translation

propaganda texts were translated into English, allowing the English-trained model to annotate the translated texts. The resulting annotations were projected back onto the original Arabic texts using alignment techniques. This approach avoided direct training on Arabic data while still enabling argumentation detection.

⁴Accessed in July 2024

and annotation projection, both of which can introduce errors that affect model performance. To address these challenges, we conducted targeted investigations to evaluate and mitigate the impact of these errors.

Annotation Projection Errors To understand the effect of annotation projection errors, we manually corrected samples of 100 and 200 instances from the training data. These corrected annotations were used to assess their impact on the performance of both the argumentation detection and the propaganda detection models. Due to the laborintensive nature of manual corrections, this effort was focused on the Translate-Train Monolingual approach.

Translation Quality Errors Translation quality was identified as a critical factor influencing model effectiveness, particularly in the Translate-Test approach. Inspired by the findings of Artetxe et al. (2023), two key strategies were implemented to mitigate the impact of translation errors. First, Domain Adaptation was applied by fine-tuning the machine translation model on domain-specific data, ensuring translations better aligned with the characteristics of the argumentation detection task. Second, Training Data Adaptation involved augmenting the training data by translating it into Arabic and then back-translating it into English, incorporating the back-translated content to expose the model to the variability introduced by translation. These strategies highlighted the sensitivity of the Translate-Test approach to translation quality.

7 Propaganda Detection Evaluation and Discussion

The effectiveness of incorporating argumentation features into the propaganda detection task was evaluated using various approaches, including cross-lingual, multilingual, and GPT-4-based annotation methods. Table 3 summarizes the Micro F1 scores for the development and test sets, highlighting the impact of these methods on performance compared to the baseline.

7.1 Cross-Lingual Approaches

Translate-Test Using Google Translate, this method achieved a Micro F1 score of 0.3948 on the development set and 0.3978 on the test set. The NLLB translation model performed comparably, with scores of 0.3981 and 0.4024 on the develop-

ment and test sets, respectively. Training data adaptation improved performance for Google Translate, reaching 0.4089 on the development set and 0.4018 on the test set. However, domain adaptation reduced performance, highlighting that this approach was not beneficial in mitigating poor translation quality.

Translate-Train Monolingual Using the NLLBtranslated dataset improved performance to 0.3695 on the development set and 0.3701 on the test set. Manual corrections of annotation projection for 100 and 200 samples boosted scores on the test set to 0.3952 and 0.3947, respectively, underscoring the importance of high-quality annotation alignment.

7.2 Multilingual Approaches

Zero-Shot Multilingual achieved a Micro F1 score of 0.3981 and 0.3930 on the development and test sets, respectively. This result indicates that the model could generalize across languages, although linguistic differences between English and Arabic pose challenges.

Translate-Train Multilingual using Google Translate, achieved Micro F1 scores of 0.4033 and 0.3931 on the development and test sets, respectively. NLLB yielded similar results, with scores of 0.3988 and 0.3929. These results demonstrate a very marginal improvement over the Zero-Shot Multilingual model, indicating the benefit of multilingual exposure during training is very limited.

7.3 GPT-4 Annotation Approach

The GPT-4-based approach, using an English prompt to annotate the propaganda dataset with argumentation features, achieved the highest Micro F1 scores of 0.4077 on the development set and 0.4025 on the test set. This method demonstrated consistent performance across both datasets, outperforming other approaches.

7.4 Discussion

The results reveal several key findings. All methods incorporating argumentation features outperformed the baseline Micro F1 score of 0.2995, demonstrating the effectiveness of integrating argumentation information into propaganda detection models. Translation quality played a crucial role, as the Translate-Test approaches showed better performance with higher-quality translations, although gains were limited without adaptation techniques. The accuracy of annotation projection was also

Approach	MT Model	Adaptation	#Corrected	Mici	ro F1
Арргоасн		Adaptation		Dev	Test
Baseline	-	-	-	-	0.2995
Zero-Shot Multilingual	-	-	-	0.3981	0.3930
	Google Translate	-	0	0.3948	0.3978
	Google Translate	Training Data	0	0.4089	0.4018
Translate-Test	NLLB	-	0	0.3981	0.4024
	NLLB	Training Data	0	0.3918	0.4006
	NLLB	Domain	0	0.3773	0.3799
Translate-Train	NLLB	-	0	0.3695	0.3701
	NLLB	-	100	0.3889	0.3952
Monolingual	NLLB	-	200	0.4033	0.3947
Translate-Train	Google Translate	-	0	0.4033	0.3931
Multilingual	NLLB	-	0	0.3988	0.3929
GPT-4 - Prompt6(AR)	-	-	-	0.4004	0.3914
GPT-4 - Prompt1(EN)	-	-	-	0.4077	0.4025

Table 3: F1 Scores of Propaganda Detection Models with Argumentation Feature Augmentation Across Different Approaches and Adaptation Strategies - Test Set

pivotal, with manual corrections significantly enhancing the performance of Translate-Train Monolingual models, underscoring the importance of precise alignment in cross-lingual tasks. GPT-4 achieved the highest scores, though with modest margins over specialized models, indicating the strong competitiveness of those models. Lastly, the results highlighted the critical impact of training data quality, as the Translate-Test approach outperformed Translate-Train due to the latter embedding errors from machine translation and annotation projection directly into the training data.

8 Qualitative Analysis on the Media Narratives on the Israeli War on Gaza

To assess the performance of the proposed model in detecting propaganda techniques, we conducted a qualitative analysis on the FIGNEWS subset (Section 3.3). These examples were selected to be annotated as propagandistic and to represent both narratives biased against Palestine and those biased against Israel. All annotated examples are in Appendix C.

The analysis of the examples reveals diverse strengths and shortcomings in the model's identification of propaganda techniques. Several examples showcase the model's ability to detect and label effectively, while others highlight areas for improvement in span detection and labeling accuracy. The model performed strongly in identifying a variety of propaganda techniques, particularly in cases involving *Appeal to Fear*, *Appeal to Hypocrisy*, and *Loaded Language*. For instance, in Example 13:

"حذَّرنا إسر انيل من عو اقب ملاحقة مسؤولين من حماس خارج فلسطين (We warned Israel about the consequences of pursuing Hamas officials outside Palestine) was accurately labeled as *Appeal to Fear*, as the phrase evokes concern about potential repercussions. Similarly, for *Appeal to Hypocrisy*, Example 7 includes: "في الوقت الذي تحارب فيه إسر انيل ايادة شعب تُتهم هي بإبادة شعب (While Israel is fighting genocide, it is accused

of genocide), which effectively exposes perceived inconsistencies in criticism. Another strong example of *Appeal to Hypocrisy* appears in Example 8: "أين كر امة الإنسان، أين حقوق الإنسان، أين احتر امه فالجواب هي إسر النيل" (where human dignity is, where human rights are, and where respect is, the answer is Israel). These instances highlight the model's ability to identify rhetorical strategies that challenge or question the credibility of opponents.

The model also demonstrated proficiency in recognizing *Appeal to Time*, as seen in Example 6 with "لن تنتهي الحرب قبل" (The next massacre) and "للمذبحة القادمة" (The war will not end before). Both spans emphasize urgency and the inevitability of action, aligning well with the intended technique. Additionally, the model's performance in labeling *Questioning the Reputation* was consistent across multiple examples. In Example 7, the span:

''أين كانت جنوب إفريقيا عندما قُتل وشُرد الملايين في سوريا واليمن على يد شركاء حماس''

(Where was South Africa when millions were killed and displaced in Syria and Yemen by Hamas's partners?) effectively critiques perceived hypocrisy, making the label appropriate. Similarly, in Example 8, "أين كرامة الإنسان" (Where is human dignity) and in Example 9,

"تتنياهو لا يفوت فرصة لالتقاط الصور لرفع أسهمه المتهاوية سياسيا" (Netanyahu never misses a chance to take pictures to boost his declining political ratings), were correctly identified as instances of questioning credibility.

The model's labeling of *Flag Waving* was another area of strength. For instance, in Example 7, the span:

"سنو اصل الحفاظ على حقنا في الدفاع عن أنفسنا وتأمين مستقبلنا حتى النصر الكامل"

(We will continue to preserve our right to defend ourselves and secure our future until complete victory) was aptly labeled, as it appeals to patriotism and unity.

For *Exaggeration-Minimization*, Example 7 includes "المالايين" (Millions), while Example 5 includes "الماليين الجودة" (High-quality operation). Both spans are persuasive through their amplification of scale or quality, making the assigned labels fitting. Similarly, the *False Dilemma* technique is well-demonstrated in Example 12 with:

" لا تفاوض مع جیش الاحتلال بشأن تبادل الأسرى حتى انتهاء العدوان" (No negotiations with the occupation army over prisoner exchange until the end of the aggression), which frames the situation as lacking alternatives. In Example 5, the span "وكل قادة حماس مصيرهم الموت" (All Hamas leaders are destined for death) similarly constructs a binary scenario, reinforcing the label's validity.

8.1 Limitations

Overprediction of Labels The model exhibited instances of overprediction, particularly for the *Loaded Language* label. For example, in Example 10, "تَعْنَى" (Receiving) was labeled as *Loaded Language*, despite being neutral. Similarly, in Example 13, "تَعْزَىنَ" (We warned) was labeled as *Loaded Language*, though it does not carry an emotive or charged tone. Mislabeling was also seen in Example 12, where "قطاع" (Strip) was inaccurately labeled as *False Dilemma*, which does not align with the text's intent. In Example 6, "المخطرفين" (The captives) was labeled as *Name Calling*, but it is more descriptive than propagandistic.

Overly Broad or Irrelevant Spans The model demonstrated a tendency to select overly broad spans or include irrelevant elements within spans. For instance, in Example 13, the span "قلت (Consequences of pursuing) was labeled as *Loaded Language*, but only "consequences" carries the intended emotional charge, while "pursuing" is neutral. Similarly, in Example 8, "ألع دواعش حماس" (Over Hamas's Daesh) was labeled as *Questioning the Reputation*, but the inclusion of "على" (Over) extends the span unnecessarily.

Unidentified Propagandistic Content The model failed to identify certain propagandistic content. For Example 4, no spans were identified as propagandistic, yet the span

" إن القضاء على احماس هو الطريقة الوحيدة لاستعادة الرهائن

(Eliminating Hamas is the only way to retrieve the hostages) could be labeled as *False Dilemma* or *Appeal to Fear* due to its framing of a singular solution and invocation of threat.

In summary, the model demonstrates strong performance in recognizing clear techniques such as *Loaded Language*, *Name Calling*, and *Appeal to Fear*, but occasionally mislabels neutral phrases or includes extraneous content in spans. These findings underscore the importance of refining span selection and improving the accuracy of labels to handle nuanced cases effectively.

9 Conclusion

This work highlights the effectiveness of integrating argumentation features into propaganda detection models for Arabic texts. By combining claims, premises, and other argumentative elements with advanced NLP methodologies, we demonstrate consistent improvements over baseline models. Our analysis of Arabic media narratives reveals the model's ability to detect diverse propaganda techniques, offering valuable insights into rhetorical strategies in politically sensitive contexts.

While translation and annotation quality present challenges, the findings underscore the potential of this approach for fostering transparency in conflictdriven discourse. Future research should focus on refining annotation and translation methods. These advancements will contribute to building robust NLP tools capable of analyzing and mitigating the impact of propaganda in sensitive geopolitical contexts.

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A Propaganda Techniques Definition

In this section, we provide the definitions of the propaganda techniques included in the dataset, as outlined in (Piskorski et al., 2023).

A.1 ATTACK ON REPUTATION

- Name Calling-Labelling: a form of argument in which loaded labels are directed at an individual, group, object or activity, typically in an insulting or demeaning way, but also using labels the target audience finds desirable.
- Guilt by Association: attacking the opponent or an activity by associating it with another group, activity, or concept that has sharp negative connotations for the target audience.
- **Doubt:** questioning the character or the personal attributes of someone or something in order to question their general credibility or quality.
- **Appeal to Hypocrisy:** the target of the technique is attacked based on their reputation by charging them with hypocrisy/inconsistency.
- **Questioning the Reputation:** the target is attacked by making strong negative claims about it, focusing specially on undermining its character and moral stature rather than relying on an argument about the topic.

A.2 JUSTIFICATION

- **Flag Waiving:** justifying an idea by exhaling the pride of a group or highlighting the benefits for that specific group.
- Appeal to Authority: a weight is given to an argument, an idea or information by simply stating that a particular entity considered as an authority is the source of the information.
- Appeal to Popularity: a weight is given to an argument or idea by justifying it on the basis that allegedly "everybody" (or the large majority) agrees with it or "nobody" disagrees with it.
- Appeal to Values: a weight is given to an idea by linking it to values seen by the target audience as positive.
- **Appeal to Fear-Prejudice:** promotes or rejects an idea through the repulsion or fear of the audience towards this idea.

A.3 DISTRACTION

- Straw Man: consists in making an impression of refuting an argument of the opponent's proposition, whereas the real subject of the argument was not addressed or refuted, but instead was replaced with a false one.
- **Red Herring:** consists in diverting the attention of the audience from the main topic being discussed, by introducing another topic, which is irrelevant.
- Whataboutism: a technique that attempts to discredit an opponent's position by charging them with hypocrisy without directly disproving their argument.

A.4 SIMPLIFICATION

- **Causal Oversimplification:** assuming a single cause or reason when there are actually multiple causes for an issue.
- False Dilemma-No Choice: a logical fallacy that presents only two options or sides when there are many options or sides. In extreme, the author tells the audience exactly what actions to take, eliminating any other possible choices.
- **Consequential Oversimplification:** is an assertion one is making of some "first" event/action leading to a domino-like chain of events that have some significant negative (positive) effects and consequences that appear to be ludicrous or unwarranted or with each step in the chain more and more improbable.

A.5 CALL

- **Slogans:** a brief and striking phrase, often acting like an emotional appeal, that may include labeling and stereotyping.
- **Conversation Killer:** words or phrases that discourage critical thought and meaningful discussion about a given topic.
- Appeal to Time: the argument is centered around the idea that time has come for a particular action.

A.6 MANIPULATIVE WORDING

- Loaded Language: use of specific words and phrases with strong emotional implications (either positive or negative) to influence and convince the audience that an argument is valid.
- **Obfuscation-Vagueness-Confusion:** use of words that are deliberately not clear, vague, or ambiguous so that the audience may have its own interpretations.
- Exaggeration-Minimisation: consists of either representing something in an excessive manner or making something seem less important or smaller than it really is.
- **Repetition:** the speaker uses the same phrase repeatedly with the hope that the repetition will lead to persuading the audience.

Appeal to Authority Appeal to Fear-Prejudice Appeal to Hypocrisy Appeal to Popularity Appeal to Time Appeal to Values

Dataset

Train Validation

Distribution of propaganda techniques across the datasets

B

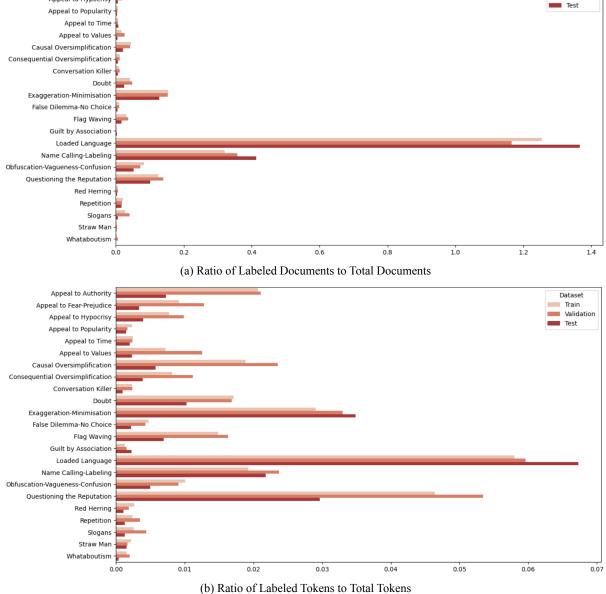


Figure 1: Propaganda Techniques Distribution: Ratios of Labeled Tokens and Documents

C Propaganda annotated examples of the narratives of the Israeli war on Gaza

Arabic	رسالة الى سكان حي الزيتون انتم تعرفون ان الحي مكتظ ومليئ بأوكار لحماس ولذلك وحفاظا على سلامتكم
	وعلى سلامة عائلاتكم واحبائكم توجهوا الى جنوب وادي غزة. كونوا متاكدين ان قادة حماس يتحصنون
	ويحاولون حماية أنفسهم
Translation	A message to the residents of the Zeitoun neighborhood: You know that the neigh-
	borhood is crowded and full of Hamas hideouts. Therefore, for your safety and the
	safety of your families and loved ones, move to the south of Wadi Gaza. Be assured
	that Hamas leaders are sheltering themselves and trying to protect themselves.
Labeled Spans	
	• مكتظ ("crowded") - Loaded Language
	• ومليئ • Loaded Language) - Loaded Language
	• متاکدین) - Loaded Language
	• يتحصنون ("sheltering themselves") - Loaded Language

Table 4: Example 1 - Biased against Palestine

Arabic	الاتحاد الأوروبي يدرج رئيس المكتب السياسي لحركة حماس في قطاع غزة يحيى #السنوار على قائمة
	الإرهاب المجلس الأوروبي: ايندرج هذا القرار في إطار رد الاتحاد على التهديد الذي تشكله حماس وهجماتها
	الوحشية على #إسرائيل في السابع من أكتوبر التفاصيل أكثر
Translation	The European Union lists the head of Hamas' political bureau in the Gaza Strip,
	Yahya Sinwar, on the "terrorism" list. European Council: "This decision is part of
	the Union's response to the threat posed by Hamas and its brutal attacks on Israel
	on October 7." For more details.
Labeled Spans	
	• الإرهاب ("terrorism") - Loaded Language, Name Calling/Labeling
	• التهديد ("threat") - Loaded Language
	• دهجماتها الوحشية) - Loaded Language) وهجماتها الوحشية

Table 5: Example 2 - Biased against Palestine

Arabic	الرئيس الأميركي جو بايدن يعتبر أن استمرار المعارك في غزة قد يؤدي إلى تنفيذ أهداف حركة حماس بايدن:
	ا حماس شنت هجوماً آر هابياً لأنها لا تخشى شيئاً أكثر من أن يعيش الإسر ائيليون والفلسطينيون جنباً إلى جنب
	في سلام' لتفاصيل أكثر
Translation	U.S. President Joe Biden considers that the continuation of battles in Gaza may lead
	to the achievement of Hamas' goals. Biden: "Hamas launched a terrorist attack
	because it fears nothing more than Israelis and Palestinians living side by side in
	peace." For more details.
Labeled Spans	
	 • المعارك ("battles") - Loaded Language
	• شنت هجوماً إر هابياً) - Loaded Language, Exaggera- tion/Minimization
	• ("fears nothing") - Loaded Language
	• ثان استمرار المعارك في غزة قد يؤدي إلى نتفيذ أهداف حركة حماس. battles in Gaza may lead to the achievement of Hamas' goals'') - Causal Over- simplification
	• حماس شنت هجوماً إر هابياً لأنها ("Hamas launched a terrorist attack because") - Causal Oversimplification
	حماس شنت هجوماً إر هابياً لأنها لا تخشى شيئاً أكثر من أن يعيش الإسر ائيليون و الفلسطينيون جنباً إلى • Hamas launched a terrorist attack because it fears nothing more "Hamas launched a terrorist attack because it fears nothing more than Israelis and Palestinians living side by side in peace") - Flag Waving

Table 6: Example 3 - Biased against Palestine

Arabic	وزير المالية الإسرائيلي بتسلئيل سموتريتش يقول إن القضاء على 'حماس' هو الطريقة الوحيدة لاستعادة
	الرهائن الأخبار حرب
Translation	The Israeli Minister of Finance, Bezalel Smotrich, says that eliminating 'Hamas' is
	the only way to retrieve the hostages.
Labeled Spans	None

Table 7: Example 4 - Biased against Palestine

Arabic	عاجل 'يديعوت أحرونوت عن مسؤولين إسر ائيليين': 'اغتيال العاروري عملية عالية الجودة وكل قادة
	حـماس مصير هم الموت
Translation	Breaking: 'Yedioth Ahronoth citing Israeli officials': 'The assassination of al-Arouri
	is a high-quality operation, and all Hamas leaders are destined for death.'
Labeled Spans	
	 اغتبال (Assassination) - Loaded Language
	• البة الجودة (High-quality) - Loaded Language
	 All Hamas leaders are destined for death) - False وكل قادة ح. ماس مصير هم الموت Dilemma-No Choice
	Israeli officials) - Obfuscation-Vagueness-Confusion) مسؤولين إسرائيليين
	• اغتبال (Assassination) - Name Calling-Labeling
	High-quality) - Name Calling-Labeling) عالية الجودة •
	• اغتيال العاروري عملية عالية الجودة وكل قادة حـ ماس مصير هم الموت al-Arouri is a high-quality operation, and all Hamas leaders are destined for death) - Appeal to Fear-Prejudice
	• اغتيال (Assassination) - Exaggeration-Minimisation
	• عملية عالية الجودة (High-quality operation) - Exaggeration-Minimisation) عملية عالية الجودة

Table 8: Example 5 - Biased against Palestine

Arabic	عاجل نتنياهو: - لن ننسى الفظائع التي وقعت في السابع من أكتوبر - نحن مصممون على تحقيق كل أهداف الحرب - لا بديل لنا عن النصر الساحق وإعادة مختطفينا في قطاع #غزة - لدينا الحق في الدفاع عن أنفسنا و لا
	أحد بإمكانه منعنا من ذلك - المذبحة القادمة بحق أبناننا مسألة وقت لذلك يجب القضاء على حماس - وجهت الحكومة للقيام بمزيد من التفعيل لبرنامج صناعات دفاعية محلي لكي نعتمد على أنفسنا أكثر - أي تحقيقات
	يجب أن تتم بعد انتهاء الحرب - العلاقات مع #مصر تدار بشكل جيد ولكل بلد مصالحه التي يقلق بشأنها - لا أتراجع عن أي كلمة قلتها بخصوص #قطر - لن أتراجع عن أي مسار من مسارات الضغط على #حماس
	وقطر يمكنها القيام بهذا الضغط - قطر تستضيف قادة في حماس وبالتالي يمكنها ممارسة ضغط بخصوص
	المخطوفين - الموقف لا يز ال على حاله بخصوص عدم إقامة مستوطنات في غزة - هدفنا القضاء على سلطة حماس و لا يمكن أن نسمح ببقاء قوات مسلحة في غزة ولن تتتهى الحرب قبل إكمال المهمة - محكمة العدل
	حماس ولا يمكن أن تسمح ببغاء فوات مستحة في عزة ولن تنتهي الحرب قبل إحمال المهمة - محمه العدن الدولية لم تجبرنا على إنهاء الحرب #حرب
Translation	Breaking: Netanyahu: - We will not forget the atrocities that occurred on October 7
	- We are determined to achieve all the goals of the war - There is no alternative to decisive victory and the return of our captives in the Gaza Strip - We have the right
	to defend ourselves, and no one can prevent us from doing so - The next massacre
	against our children is a matter of time; therefore, Hamas must be eliminated - The
	government has been directed to further activate a local defense industries program to rely more on ourselves - Any investigations should take place after the war -
	Relations with Egypt are well-managed, and every country has its own interests
	to worry about - I do not back down from anything I said about Qatar - I will not back down from any pressure path on Hamas, and Qatar can exert such pressure -
	Qatar hosts Hamas leaders and can therefore exert pressure regarding the captives
	- The stance remains unchanged regarding the non-establishment of settlements
	in Gaza - Our goal is to eliminate Hamas authority, and we cannot allow armed forces to remain in Gaza; the war will not end before completing the mission - The
	International Court of Justice has not forced us to end the war.
Labeled Spans	
	• لفظائع (Atrocities) - Loaded Language
	• النصر الساحق (Decisive victory) - Loaded Language
	 المذبحة (Massacre) - Loaded Language
	 سقاق (Worried) - Loaded Language
	• الضغط (Pressure) - Loaded Language
	• المخطوفين (The captives) - Name Calling-Labeling
	• العلاقات (Relations) - Doubt
	• المذبحة القادمة (The next massacre) - Appeal to Time
	 مسألة وقت لذلك يجب القضاء على حماس A matter of time; therefore, Hamas must be eliminated) - Appeal to Time
	• تنتهي الحرب قبل (Before the war ends) - Appeal to Time

Table 9: Example 6 - Biased against Palestine

Arabic Translation	#عاجل #نتنياهو: - في الوقت الذي تحارب فيه إسرائيل إبادة شعب نتهم هي بإبادة شعب - رأينا اليوم عالما مقلوبا رأسا على عقب ونحن نحارب الإرهابيين والأكاذيب - صراخ نفاق جنوب إفريقيا يصل إلى السماء - أين كانت جنوب إفريقيا عندما قتل وشرد الملايين في #سوريا واليمن على يد شركاء حماس - سنو اصل الحفاظ على حقنا في الدفاع عن أنفسنا وتأمين مستقبلنا حتى النصر الكامل #حرب عزة
Translation	 #Breaking #Netanyahu: - While Israel is fighting genocide, it is accused of genocide - Today we saw an upside-down world as we fight terrorists and lies - The hypocritical cries from South Africa reach the heavens - Where was South Africa when millions were killed and displaced in #Syria and Yemen by Hamas's partners? We will continue to preserve our right to defend ourselves and secure our future until complete victory.
Labeled Spans	
	 بادة شعب (Genocide) - Loaded Language
	• بابادة شعب (Accused of genocide) - Loaded Language
	• الإر هابيين والأكاذيب) - Loaded Language
	• صراخ نفاق (Hypocritical cries) - Loaded Language
	• وشرد الملابين) - Loaded Language
	في الوقت الذي تحارب فيه إسر ائيل إبادة شعب نتهم هي بإبادة شعب - ر أينا اليوم عالما مقلوبا ر أسا • على عقب ونحن نحارب الإر هابيين و الأكاذيب - صر اخ نفاق جنوب إفريقيا يصل إلى السماء - أين (Where كانت جنوب إفريقيا عندما قتل وشرد الملايين في #سوريا و اليمن على يد شركاء حماس was South Africa when millions were killed and displaced in Syria and Yemen by Hamas's partners?) - Questioning the Reputation
	While Israel fights) في الوقت الذي تحارب فيه إسر ائيل إبادة شعب نتهم هي بإبادة شعب - ر أينا • genocide) - Appeal to Hypocrisy
	• لا Upside-down) - Appeal to Hypocrisy) مقلوبا
	• الإر هابيين (Terrorists) - Name Calling-Labeling
	طاس • (Hamas's partners) - Name Calling-Labeling) شرکاء حماس
	We will) سنواصل الحفاظ على حقنا في الدفاع عن أنفسنا وتأمين مستقبلنا حتى النصر الكامل • continue to preserve our right to defend ourselves and secure our future until complete victory) - Flag Waving
	Where was South Africa when killed and) أين كانت جنوب إفريقيا عندما قتل وشرد • displaced) - Doubt
	• (In Syria and Yemen by Hamas's partners) في #سوريا واليمن على يد شركاء حماس. Doubt
	 سلابين (Millions) - Exaggeration-Minimisation

Table 10: Example 7 - Biased against Palestine

Arabic	سألني صديقي الجزائري من جديد: يا أفيخاي ما سر تفوق شعب إسرائيل على دواعش حماس ليس فقط
	عسكريًا. فأجابته: فإن سألت أين كرامة الإنسان، أين حقوق الإنسان أين احترامه فالجواب هي إسرائيل.
	وأشكر الله على كوني يهوديا وصميونيا لإني منهما تعلمت ماذا يعني الحياة وماذا تعني الإنسانية.
Translation	My Algerian friend asked me again: Oh Avichai, what is the secret of Israel's
	superiority over Hamas's Daesh, not only militarily? I replied: If you ask where
	human dignity is, where human rights are, and where respect is, the answer is Israel.
	I thank God for being Jewish and Zionist because from them I learned what life and
	humanity mean.
Labeled Spans	
	• يقوق شعب (Superiority of a people) - Questioning the Reputation
	• Over Hamas's Daesh) - Questioning the Reputation) على دو اعش حماس
	• اين كرامة الإنسان) - Questioning the Reputation
	(Where are human rights and respect) أين حقوق الإنسان أين احتر امه فالجواب هي إسر ائيل • The answer is Israel) - Questioning the Reputation
	• سألت (Asked) - Appeal to Hypocrisy
	Where is human) أين كرامة الإنسان، أين حقوق الإنسان أين احترامه فالجواب هي إسرائيل • dignity, where are human rights and respect? The answer is Israel) - Appeal to Hypocrisy
	• دواعش حماس (Hamas's Daesh) - Name Calling-Labeling
	ا يهوديا وصهيونيا • (Jewish and Zionist) - Name Calling-Labeling) يهوديا و
	The secret of Israel's superiority over) سر تفوق شعب إسرائيل على دواعش حماس • Hamas's Daesh) - Doubt

Table 11: Example 8 - Biased against Palestine

Arabic	رئيس الوزراء الإسرائيلي يزور #غزة في 'وقت الهدنة' مع #حماس ورئيس منتدى الشرق الأوسط للدر اسات
	السياسية والاستر اتيجية: '#نتياهو لا يفوت فرصة لالتقاط الصور لرفع أسهمه المتهاوية سياسياً #فلسطين
	#إسر ائيل #الحدث
Translation	The Israeli Prime Minister visits Gaza during the "time of the truce" with Hamas.
	The President of the Middle East Forum for Political and Strategic Studies says:
	"Netanyahu never misses a chance to take pictures to boost his declining political
	ratings."
Labeled Spans	
	• الهدنة (Truce) - Loaded Language
	Declining) - Loaded Language) المتهاوية •
	• المتهاوية سياسياً (Netanyahu never misses) المنتياهو لا يفوت فرصة لالتقاط الصور لرفع أسهمه المتهاوية سياسياً a chance to take pictures to boost his declining political ratings) - Questioning the Reputation
	• الهدنة (Truce) - Name Calling-Labeling
	• الهدنة (Truce) - Appeal to Time

Arabic	لحظة تلقّي والد الأسير المحرر بصفقة وفاء الأحرار والناطق باسم حركة حماس عن مدينة #القدس محمد حمادة نبأ استشهاد نجله المُبعد إلى #غزة من بلدة صور باهر' #حرب غزة #فيديو
Translation	The moment the father of the released prisoner under the "Wafa al-Ahrar" deal and spokesman for the Hamas movement in Jerusalem, Muhammad Hamada, received the news of the martyrdom of his son, who was displaced to Gaza from the town of Sur Baher.
Labeled Spans	
	• تلقّي (Receiving) - Loaded Language
	• المحرر (Released) - Loaded Language
	• استشهاد (Martyrdom) - Loaded Language
	• الأسير المحرر (Released Prisoner) - Name Calling-Labeling
	Wafa al-Ahrar) - Name Calling-Labeling) وفاء الأحرار •

Table 13: Example 10 - Biased against Israel

Arabic	مقال في صحيفة الوموند' الفرنسية جاء فيه أن مشاعر التعاطف مع ضحايا هجوم حماس عبر العالم تحوّلت
	بعد الهجوم على غزة نحو المدنيين الفلسطينيين بسبب معاناتهم. أبرز ما ورد في الصحافة الدولية بشأن
	الحرب الإسر الميلية على قطاع غزة #حرب غزة الأخبار
Translation	An article in the French newspaper "Le Monde" stated that feelings of sympathy
	for the victims of Hamas's attack worldwide shifted after the attack on Gaza toward
	Palestinian civilians due to their suffering. Highlights from international press
	coverage of the Israeli war on Gaza.
Labeled Spans	
	 • التعاطف (Sympathy) - Loaded Language
	• منحايا هجوم (Victims of Attack) - Loaded Language
	 • تحوّلت (Shifted) - Loaded Language
	• الهجوم) - Loaded Language
	 معاناتهم (Their Suffering) - Loaded Language
	• هجوم (Attack) - Name Calling-Labeling
	• عبر العالم (Worldwide) - Exaggeration-Minimisation
L	

Table 14: Example 11 - Biased against Israel

Arabic	القيادي في حماس صالح العاروري في أخر لقاء تلفزيوني على شاشة #الجزيرة قبل استشهاده: لا تفاوض مع
	جيش الاحتلال بشأن تبادل الأسري حتى انتهاء العدوان على قطاع #غزة #حرب_غزة #الأخبار
Translation	Hamas leader Saleh Al-Arouri in his last televised interview on Al Jazeera before
	his martyrdom: No negotiations with the occupation army over prisoner exchange
	until the end of the aggression on the Gaza Strip.
Labeled Spans	
	• استشهاده (Martyrdom) - Loaded Language
	• العدوان (Aggression) - Loaded Language
	• العدوان (No negotiations with) لا تفاوض مع جيش الاحتلال بشأن تبادل الأسرى حتى انتهاء العدوان (No negotiations with the occupation army over prisoner exchange until the end of the aggression) - False Dilemma-No Choice
	• فطاع (Sector/Strip) - False Dilemma-No Choice
	• الاحتلال (Occupation Army) - Name Calling-Labeling
	• العدوان (Aggression) - Name Calling-Labeling

Table 15: Example 12 - Biased against Israel

عاجل رويترز عن مسؤول بالمخابر ات التركية: 'حذرنا إسر ائيل من عواقب ملاحقة مس
خارج فلسط
euters quoting a Turkish intelligence official: 'We warned Israel about
nces of pursuing Hamas officials outside Palestine, including in Turkey.'
e warned) - Loaded Language
Consequences of pursuit) - Loaded Language عواة
حذرنا إسرائيل من عواقب ملاحقة مسؤولين من حماس خار (We warned Israel about equences of pursuing Hamas officials outside Palestine) - Appeal to ejudice

Table 16: Example 13 - Biased against Israel

ذكرت وسائل إعلام تابعة لحركة #حماس أن أكثر من 30 شخصا قتلوا و أصيب العشر ات في قصف إسر ائيلي
لمخيم #جباليا في شمال.
Media affiliated with the Hamas movement reported that more than 30 people were
killed and dozens injured in an Israeli bombing of Jabalia camp in the north.
• قصف (Bombing) - Loaded Language

Table 17: Example 14 - Biased against Israel

Arabic	هنية: اغتيال العاروري ورفاقه عملٌ إر هابيّ مكتمل الأركان وحماس لن تُهزَم
Translation	Haniyeh: The assassination of Al-Arouri and his companions is a fully-fledged terrorist act, and Hamas will not be defeated.
Labeled Spans	
	 اغتيال (Assassination) - Loaded Language
	• عملٌ إر هابيّ (Terrorist Act) - Loaded Language
	• العاروري ورفاقه) - (Al-Arouri and his companions) - Questioning the Reputation
	 الأركان (Fully-fledged) - Questioning the Reputation
	 لن تُهزَم (Will not be defeated) - Questioning the Reputation
	• الأركان (Fully-fledged) - Obfuscation-Vagueness-Confusion) مكتمل الأركان
	Assassination of Al-Arouri) - Name Calling-Labeling) اغتيال العاروري •
	• عملٌ إر هابيّ (Terrorist Act) - Name Calling-Labeling) عملٌ إر هابيّ
	Fully-fledged terrorist act, and Hamas will) عملٌ إر هابيّ مكتمل الأركان وحماس لن تُهزَم • not be defeated) - Exaggeration-Minimisation
	• هنية (Haniyeh) - Appeal to Authority
	• Fully-fledged terrorist act) - Appeal to Authority) عملٌ إر هابيّ مكتمل الأركان

Table 18: Example 15 - Biased against Israel

Arabic	ترحيب عربي بتدابير محكمة العدل الدولية بشأن منع الإبادة الجماعية في غزة، و الصحة العالمية ترفض
	اتهامات إسر ائيلية بـ التواطؤ مّع حماس تعرَّف أبرز أخبار اليوم
Translation	Arab approval of the measures by the International Court of Justice regarding
	preventing genocide in Gaza, and 'WHO' rejects Israeli accusations of 'collaboration
	with Hamas.' Discover the top #news of the day.
Labeled Spans	
	• الإبادة الجماعية (Genocide) - Loaded Language
	 • اتهامات (Accusations) - Loaded Language
	• التواطؤ (Collaboration) - Loaded Language
	WHO rejects Israeli accu') الصحة العالمية ترفض اتهامات إسر ائيلية بـ التواطؤ مع حماس • sations of collaboration with Hamas') - Questioning the Reputation
	Collaboration with Hamas') - Name Calling-Labeling') 'التواطؤ مع حماس'

Arabic	حركة حماس : تم الاتفاق مع الأشقاء في قطر ومصر على تمديد الهدنة الإنسانية المؤقتة لمدة يومين إضافيين
	بنفس شروط الهدنة السابقة.
Translation	Hamas Movement: Agreement was reached with the brothers in Qatar and Egypt to
	extend the temporary humanitarian truce for an additional two days under the same
	terms as the previous truce.
Labeled Spans	
	• الهدنة الإنسانية المؤقتة) (Temporary Humanitarian Truce) - Loaded Language
	• الأشقاء (Brothers) - Name Calling-Labeling
	• الإنسانية (Humanitarian) - Name Calling-Labeling

Table 20: Example 17 - Biased against Israel