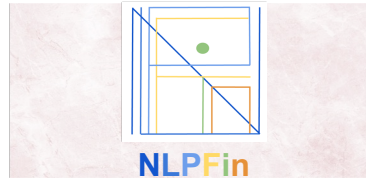


# FinArg-1: Fine-grained Argument Understanding in Financial Analysis



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# Overview of FinArg Shared Task Series



	Language	Source	Task
FinArg-1	English	Analyst Report	Argument-based Sentiment Detection
		<b>Earning Conference Call</b>	
	Chinese	Social Media	Identifying Attack and Support Argumentative Relations in Social Media Discussion Thread
FinArg-2	English	Analyst Report	Premise's Influence Period Assessment
	Chinese	Social Media	Claim's Validity Period Assessment
FinArg-3	English	Analyst Report	High Forecasting Skill Report Retrieval
	Chinese	Social Media	High Forecasting Skill Opinion Retrieval

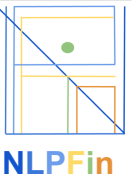
- **Each Round: Two Tasks and Two Languages**
- FinArg-1 and FinArg-2 Extract Argument Features
  - FinArg-1: General (Argument Mining)
  - FinArg-2: Temporal (Tailor-made for Financial Data)
- FinArg-3 Retrieval and Recommendation
  - Participants can use the features extracted in FinNum or FinArg

# FinArg-1



Task	Subtask
Argument-based Sentiment Detection	Argument Classification
	Premise Sentiment Analysis
	Claim Sentiment Analysis
Identifying Attack and Support Argumentative Relations in Social Media Discussion Thread	-

# Task Design



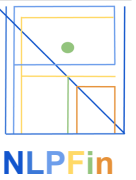
## **Task 1: Argument-based Sentiment Analysis (Research Report & Earnings Conference Call)**

- (1) Argument classification: classify the given sentence into claim or premise
- (2) Premise sentiment analysis: classify the given premise into positive, neutral, or negative
- (3) Claim sentiment analysis: classify the given claim into bullish, neutral, or bearish

## **Task 2: Identifying Attack and Support Argumentative Relations in Social Media Discussion Threads (Social Media)**

- Identify the argumentative relations (attack, support, or irrelevant) between two given social media posts.

# Example – Task 1



## Argument-based Sentiment Analysis (Research Report & Earnings Conference Call)

Negative Premise

Positive  
Premise

Looking forward to 2020, although the outlook for foreign currency lending due to COVID-19 is not good, the momentum of Taiwan dollar lending is still stable, driven by 5G, green energy, the return of Taiwanese businessmen and the government's forward-looking plan. We revise up CITIC Bank's 2020 lending growth to mid-single digits.

Bullish  
Claim

# Example – Task 2

## Identifying Attack and Support Argumentative Relations in Social Media Discussion Threads (Social Media)

Original Post

TSM's PE ratio is actually only 15.7~17.4 times!!!  
Folks, let me tell you more numbers to let you know that TSM is not expensive:  
1. The historical average range of stock market PE ratio is 15~20.  
2. The current P/E ratio of stocks is about 16-17.  
3. The current P/E ratio of semiconductor stocks is about 23 to 24 times.  
After 5 nanometers have also come out, it's not too much to earn 5 yuan a season, right? The EPS will easily be 20 in one year.

The stock price goes up to 500 in 3 to 5 years!

R1

I agree, I have bought TSMC for a long time, this is already a belief

Support

R2

It should be a reasonable estimate that eps is close to 20 yuan after three years

Support

R3

This time, some electronics factories have cut orders to transfer orders. SMIC has the support of the national team. All countries, large and small factories, will be a threat to TSM, and I don't think it will increase 500 in the future.

Attack

R4

It only doubles in 3~5 years. When the big crash is full of cheap premium stocks, the risk is not proportional to the recovery.

Attack

	Number of Instance	Proportion
Support	4,623	56.47%
Attack	2,710	33.10%
Irrelevant	854	10.43%
Total	8,187	100.00%

# Schedule



# Schedule



## 2023

- Jan 31: Chinese Training and Development Set Release
- March 31: English Training and Development Set Release
- Jun 30: Test Set Release
- July 10: Task Registration Due
- July 15: Participants' Results Submission Due
- August 1: Evaluation Result Release & Draft Task Overview Paper Release
- September 1: Participants' Papers Submission Due
- November 1: Camera-ready Paper
- December: NTCIR-17 Conference in NII, Tokyo, Japan



Thank you!

Q&A

