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

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Overview of FinArg Shared Task Series

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<tr>
<th>Language</th>
<th>Source</th>
<th>Task</th>
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<tbody>
<tr>
<td>English</td>
<td>Analyst Report</td>
<td>Argument-based Sentiment Detection</td>
</tr>
<tr>
<td>Chinese</td>
<td>Social Media</td>
<td>Identifying Attack and Support Argumentative Relations in Social Media Discussion Thread</td>
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- **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

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<tr>
<th>Task</th>
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<tr>
<td>Argument-based Sentiment Detection</td>
<td>Argument Classification</td>
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<td>Premise Sentiment Analysis</td>
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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)

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.
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

R2
It should be a reasonable estimate that eps is close to 20 yuan after three years

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.

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.

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<tr>
<th>Number of Instance</th>
<th>Proportion</th>
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<tbody>
<tr>
<td>Support</td>
<td>4,623</td>
</tr>
<tr>
<td>Attack</td>
<td>2,710</td>
</tr>
<tr>
<td>Irrelevant</td>
<td>854</td>
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<tr>
<td>Total</td>
<td>8,187</td>
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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