

HIDDEN-RAD2: Hidden Causal Reasoning in Radiology Report Generation

Task type: Core

Task organizers:

Key-Sun Choi, You-Sang Cho (Konyang Univ.)

Young-Gyun Hahm, YeJee Kang (Teddysum)

Seung-Hoon Na (UNIST)



1. Need for deeper causal reasoning

2. Leveraging recent advances in LLMs

3. Tackling hallucination in AI-generated text

4. Extending applicability to clinical settings

Task 1: Report (+image) → Causal explanation

Task 2: QA responses → Causal explanation

Task 3: Generated explanation → Error detection & correction

- **Data: 1,000 $\rightarrow$ 2,000 cases**
- **Tasks: 2 $\rightarrow$ 3 (adds correction task)**
- **Evaluation: qualitative $\rightarrow$ hybrid with quantitative**
- **Focus: causality $\rightarrow$ causality + hallucination handling**



Technical innovations: Self-verifying AI, hallucination control



Clinical applications: Support tools for education, explanation, and diagnosis

Feedback and comments

More open accessible data (licensing issue in MIMIC database)

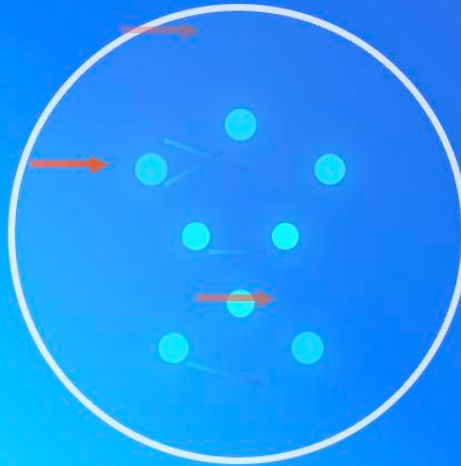
Simple structure of Task 1 and 2

more clear definition and justification of Task 3

open evaluation scheme

possible errors in dataset

HIDDEN
CAUSALITY



HIDDEN-RAD2

NTCIR-19

Hidden Causal Reasoning in Radiology Report Generation

- Causal Explanation Generation
- Hallucination Detection & Correction
- Multimodal Medical AI