



NewsImages 2025

Lucien Heitz, University of Zurich

Luca Rossetto, Dublin City University

Benjamin Kille, Norwegian University of Science and Technology

Andreas Lommatzsch, Technische Universität Berlin

Mehdi Elahi, University of Bergen

Duc-Tien Dang-Nguyen, University of Bergen

Task Goal

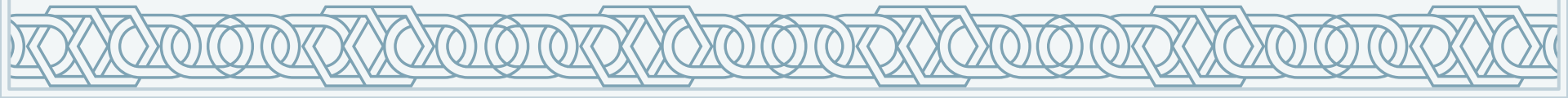
- We give you a news headline.
- You retrieve or generate a fitting image.
- For example...



“Bilston school takes trip down memory lane as staff and pupils celebrate 90th anniversary.”



Background and Motivation

- Images drive engagements with news
 - (Human) editorial work as bottleneck
 - Headline and image relation not necessarily literal
 - Rapid txt2img progress presents new opportunities
- 



Subtask Definition

- **SMALL:** 30 pre-determined articles
Focus on AI tools with a ‘journalist-in-the-loop’
- **LARGE:** 8,500 articles (randomly sampled)
Focus on fully automated pipelines that scale



Data

- 8,500 news headlines with tags and images
- Sourced from multiple online sources (compiled by GDELT)
 - Title: *“Global stocks, dollar gain as UK...”*
 - Article (URL): <https://www.marketscreener.com/...>
 - Tags: silicon valley bank;goldman sachs... (based on body)
 - Image (URL): <https://img.zonebourse.com/reuters/...>




Approaches

- CLIP flavors for image retrieval
- Stable Diffusion flavors for image generation
- Article classification and prompt engineering
- Exploration of art styles and subjects



Evaluation and Metrics

- Crowdsourced online evaluation with all teams
 - 5-point Likert scale to rate headline-image fit
 - Evaluation criterion: average article fit
 - Retrieved and generated images evaluated together
- 

Teams and Submissions

- AFourP
- CERTH-ITI
- CodingSoft
- CVG-IBA
- DACS-UM-RTL
- Das-RU
- ELITE_CODERS
- Headline Hunters
- SELab-HCMUS
- SSN-CSE
- SyntxError404
- VisionX
- 39 submissions for SMALL (30 articles, 12 teams)
- 26 submissions for LARGE (20 articles, 10 teams)
- Total image submissions: 213'ooo images
- Thank you ❤️

NewsImages Leaderboard Small

r ¶ë »	Approach	Score
CVG-IBA	VIVID (Image Generation)	3.401
CVG-IBA	PromptForge (Image Generation)	3.233
SELab-HCMUS	HumanSelect (Image Generation)	3.115
Headline Hunters	BLIP (Image Retrieval)	3.096
CVG-IBA	TRACE (Image Retrieval)	3.079
CVG-IBA	SEEK (Image Retrieval)	3.074
	Baseline (Original Images)	3.041

NewsImages Leaderboard Large

Team	Approach	Score
CVG-IBA	PromptForge (Image Generation)	3.194
CVG-IBA	TRACE (Image Retrieval)	3.114
Headline Hunters	BLIP (Image Retrieval)	3.088
Das-RU	SDXLREF (Image Generation)	3.031
	Baseline (Original Images)	2.956

NewsImages Leaderboard Full

Team	Approach	Score
CVG-IBA	PromptForge (Image Generation)	3.214
CVG-IBA	TRACE (Image Retrieval)	3.097
Headline Hunters	BLIP (Image Retrieval)	3.092
Das-RU	SDXLREF (Image Generation)	3.004
	Baseline (Original Images)	3.001



Results

- Retrieval and generation can outperform editors
- Vast design space for matching text and images
- Retrieval approaches: low risk, low reward
- Generation approaches: high risk, high reward
- Ethical considerations and preferences can be aligned

A decorative border made of light blue Celtic knot patterns surrounds the text. The border is composed of repeating knot motifs that form a rectangular frame with ornate corners.

Questions?

E-Mail: challenges@informfully.ch

GitHub: <https://github.com/Informfully/Challenges>

CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, infographics & images by **Freepik**