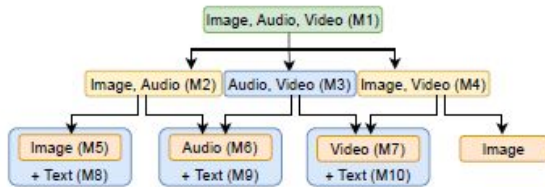


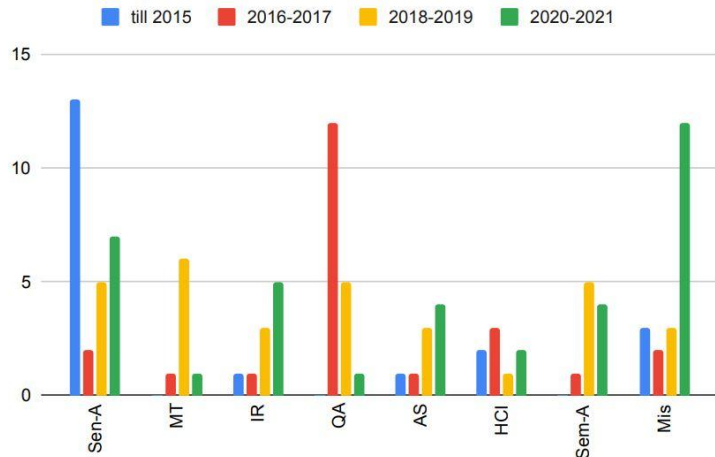
Multimodality for NLP-Centered Applications: Resources, Advances and Frontiers

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MULTIMODALITY



YEAR-WISE DISTRIBUTION



Focus points:

Finding multilingual/ low resourced datasets

Reducing redundancy

MAJOR CONTRIBUTIONS

1. A comprehensive survey of existing multimodal datasets for different NLP applications,
2. The summary of recently developed publicly available benchmark datasets for the tuple $\langle a, l, s \rangle$ (\langle application, language, source \rangle),
3. New frontiers and open research directions in the area of multimodal analysis.

NLP TASKS

1. Sentiment Analysis
2. Machine Translation
3. Information Retrieval
4. Question Answering
5. Summarization
6. Human-computer Interaction
7. Semantic Analysis
8. Miscellaneous Applications.

DISCUSSION

1. Suitable for cross domain usage
2. Datasets are either created, re-annotated, or re-used for different NLP tasks.
3. Re-annotation, and re-usage helps reduce time, cost, and efforts.
4. Enhance the scope of the multimodal datasets.

CONCLUSION

1. Extensive survey of multi-modal datasets.
2. Represented through the tuple $\langle a, l, s \rangle$ (\langle application, language, source \rangle) across
3. Collection of well-established publicly available multimodal datasets for NLP applications.
4. Inferences, challenges, and new frontiers are provided.
5. Enumerated the detailed annotations of the benchmark multimodal datasets.