Anil Batra

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У @_anilbatra

in anil-batra

https://anilbatra2185.github.io/

Education

Supervisors: Dr. Laura Sevilla, Prof. Marcus Rohrbach, Prof. Frank Keller

Research Focus: Working at the intersection of Language and Vision, with a focus on developing

models that can plan, reason, and execute goal-oriented tasks.

Supervisors: Prof. C.V. Jawahar

Thesis: Road Topology Extraction from Satellite images by Knowledge Sharing.

GPA: 8.44/10

GPA: 8.38/10

Employment

Research Focus: Focused on diffusion model baselines for unconditional image generation, laying the groundwork for future work 'Image generation with shortest path

diffusion', accepted at ICML 2023. Manager: Alberto Bernacchia

Research Focus: Incorporated my published road extraction work arc-gis library for

future use by OSM community engineers.

Manager: Rohit Singh

Research Focus: Train and deploy road extraction pipeline to OSM maps. Technical

Blog by Meta

Manager: Saikat Basu

Research Publications

Conference Proceedings

- **Anil, Batra**, D. Moltisanti, L. Sevilla-Lara, M. Rohrbach, and F. Keller, "Efficient pre-training for localized instruction generation of videos," in *European conference on computer vision*, Springer, 2024.
- A. Das, S. Fotiadis, **Anil, Batra**, et al., "Image generation with shortest path diffusion," in *International Conference on Machine Learning*, PMLR, 2023, pp. 7009–7024.
- Anil, Batra, S. N. Gowda, F. Keller, and L. Sevilla-Lara, "A closer look at temporal ordering in the segmentation of instructional videos," in *British Machine Vision Conference*, 2022.
- 4 Anil, Batra, S. Singh, G. Pang, S. Basu, C. Jawahar, and M. Paluri, "Improved road connectivity by joint learning of orientation and segmentation," in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, 2019, pp. 10 385–10 393.
- 5 S. Singh, **Anil**, **Batra**, L. Torresani, *et al.*, "Self-supervised feature learning for semantic segmentation of overhead imagery," BMVA Press, 2018.

Skills

Misc. \diamond GDAL (beginner), SQL (beginner), Matlab (beginner)

Languages \diamond English (advanced), Hindi (native), Punjabi (native)

Miscellaneous Experience

Teaching

Roles: Marker, Exam Marker, Tutor

2024 Oping Research in NLP course for first-year PhD students.

Roles: Marker

Roles: Marker, Tutor

Roles: Demonstrator, Tutor

Reviewer

References

Available on Request