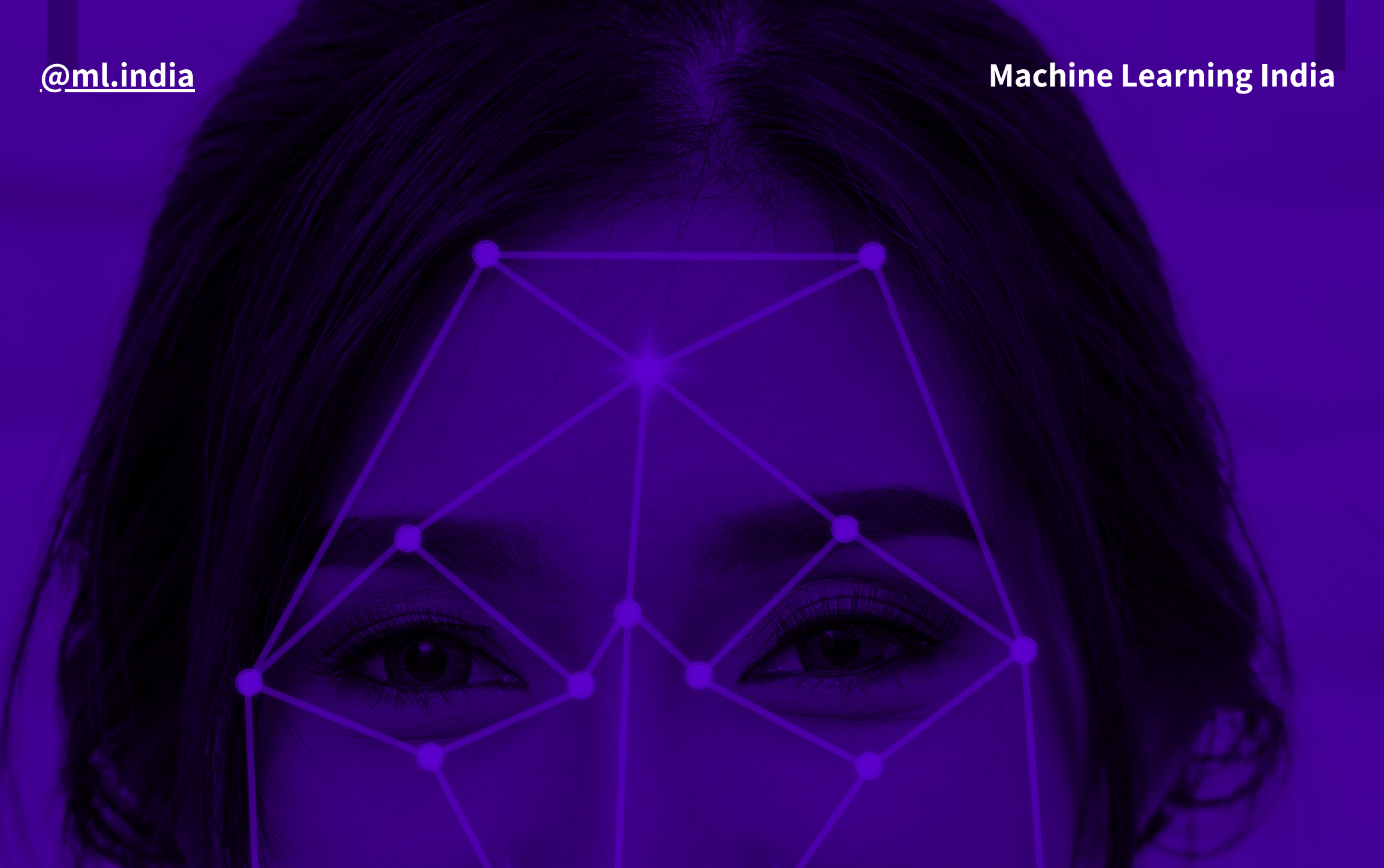
MACHINE LEARNING INDIA

Computer Vision

RESEARCH PAPERS



Computer vision and machine learning have really started to take off, but for most people, the whole idea of what is a computer seeing when it's looking at an image is relatively obscure.

Mike Krieger

Transformers for CV!

Will **transformers** revolutionize **computer vision** like they did with **natural language processing**? That's one of the major research questions investigated by computer vision scientists in 2020. The first results indicate that transformers achieve very promising results on image recognition tasks.

Beyond transformers in vision applications, we also noticed a continuous interest in **learning 3D objects** from images, **generating realistic images** using **GANs** and **autoencoders**, etc.

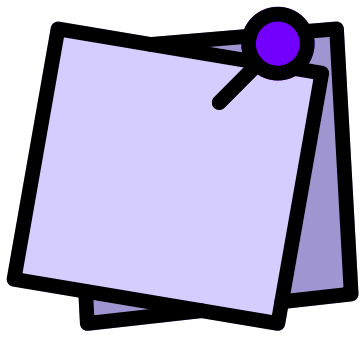
Top papers from 2020:

- EfficientDet: Scalable and Efficient Object Detection
- Unsupervised Learning of Probably Symmetric Deformable 3D Objects from Images in the Wild
- 3D Photography using Context-aware Layered Depth Inpainting
- Adversarial Latent Autoencoders
- On Learning Sets of Symmetric Elements
- Tuning-free Plug-and-Play Proximal Algorithm for Inverse Imaging Problems

Save for later!

Other noteworthy ones:

- Generative Pretraining from Pixels
- RAFT: Recurrent All-Pairs Field Transforms for Optical Flow
- An Image is Worth 16×16 Words: Transformers for Image Recognition at Scale
- Training Generative Adversarial Networks with Limited Data

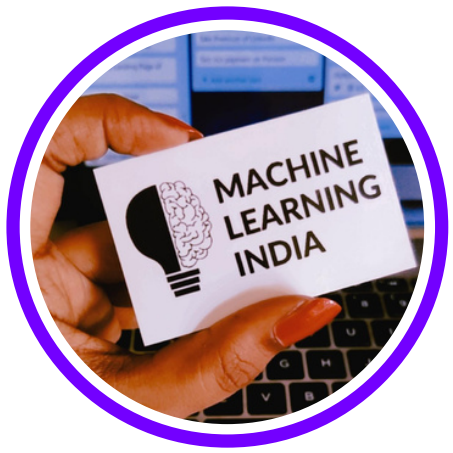


Notable references:

Novel Computer Vision Research Papers From 2020 by **Mariya Yao** on **topbots.com**.

Important note:

The links to the papers will be put up on our Telegram. Channel ID: **@machinelearning24x7**.



@ml.india

@ml_india_

bit.ly/mli-linkedin

@machinelearning24x7

Find our content valuable?

Show your support by following us, sharing our content and commenting below! A **HUGE** shout-out to Aditi Hegde and Abhijeet Prasad, our patrons, for making this post possible. ♥

Become a **patron** on: patreon.com/machinelearningindia

Link in bio!

Like.

Comment.

Share.