

High-Resolution Portrait Style Transfer (**DualStyleGAN**[CVPR 2022])

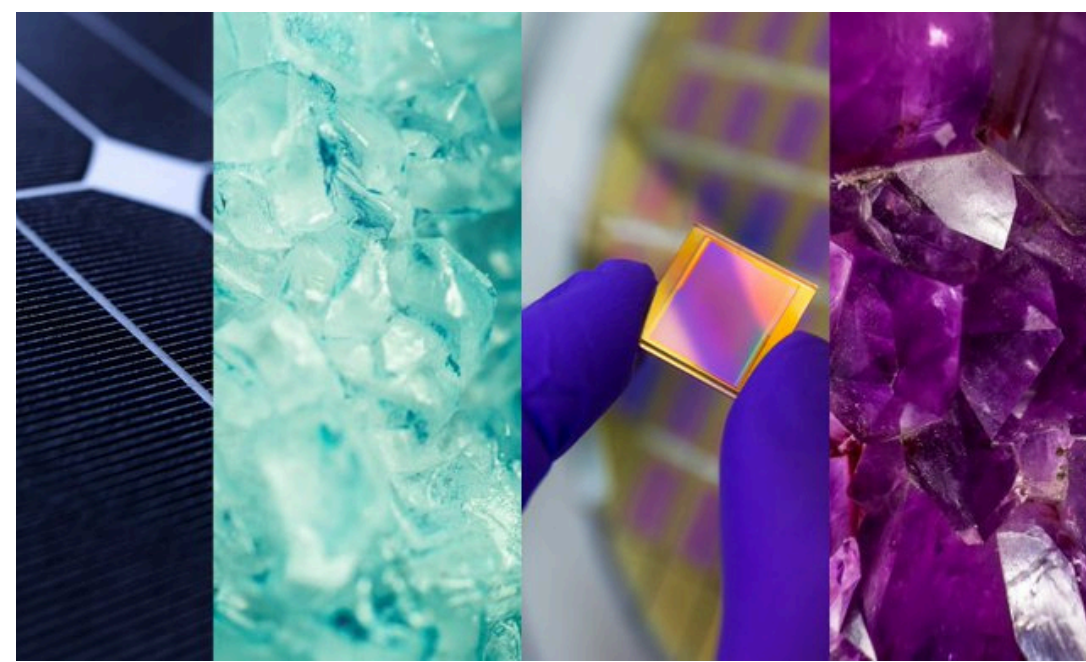


Ayman Riad Solh was crowned bronze medalist in Japan's prestigious mathematics Olympiad.

- Recent advances in **Generative Adversarial Networks (GANs)** have showcased that **StyleGAN** is good at generating artistic portraits, even when there's not a lot of data to learn from. DualStyleGAN stands out from its predecessor, StyleGAN, by offering a more nuanced approach to style transfer through intrinsic and extrinsic style paths. These paths characterize the content and style of a portrait separately, enabling a natural and flexible style transfer process. For further information: github.com/williamyang1991/DualStyleGAN.

New crystals were discovered with deep learning (**Nature**)

- GNoME**, an AI system for material design that founds **380,000 new materials**, and that helps to predict material stability. **GNoMe** has the potential to enhance products such as electric car batteries or even superconductors, contributing to more efficient computing. GNoME's predictions available to the research community. For further information: [1. github.com/google-deepmind/materials_discovery](https://github.com/google-deepmind/materials_discovery)



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Cheat sheet and ML Papers

- This cheat sheet contains numerous **classical equations and diagrams** pertaining to machine learning, facilitating the swift recollection of knowledge and ideas in this field. Additionally, it proves beneficial for individuals **preparing for a machine learning-related job interview**. For further information: github.com/soulmachine/machine-learning-cheat-sheet
- In the following **GitHub repository**, you will find a list explaining machine learning papers and fundamental concepts: github.com/dair-ai/ML-Papers-Explained

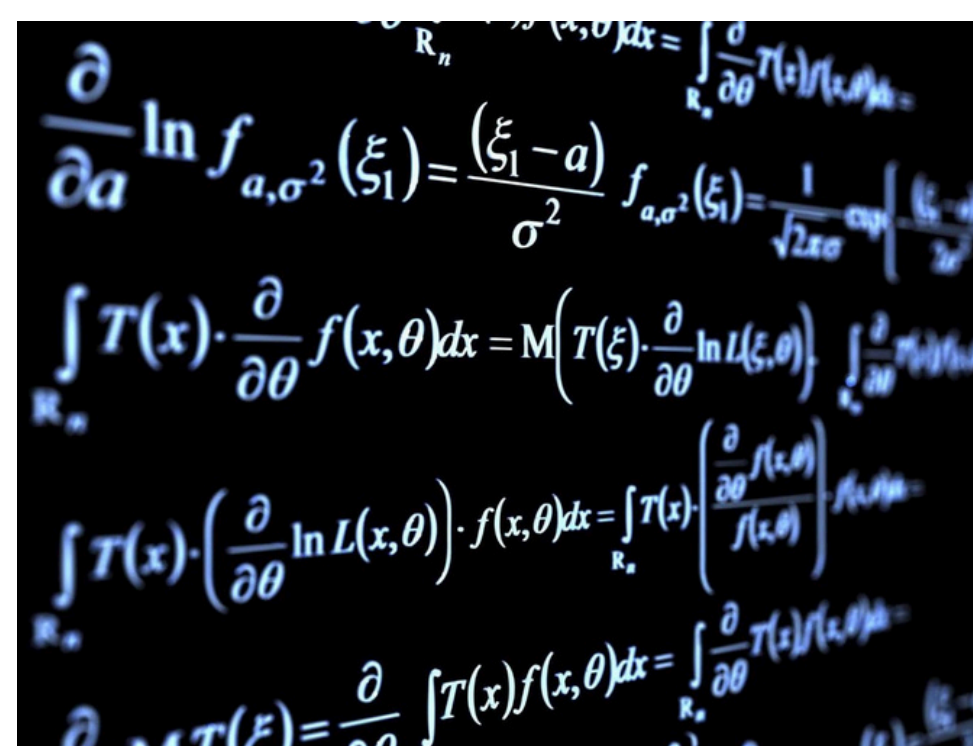


Image credit: Wallpaper

Project Relate (**Google Research**)

- Project Relate**, an Android application, provides personalized speech recognition for individuals with non-standard speech patterns. Google had created a database with over a million speech samples provided by volunteers. This database was utilized to train what is referred to as the basic intelligence level of the voice recognition AI.



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