



**Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri-W, Mumbai-400058**



## Report

Event Name: Online Live Webinar Series

Date of Event: 2020-05-23

Place of Event: Virtual Mode

In-Charge Member: WIE-SPIT

The online seminar on AI and its application was conducted by the highly accomplished Dr. Aarti Karande, a Ph.D in computer engineering. She has seven international journal publications and ten international conference publications till date. Apart from this, she is also currently handling Women in engineering IEEE student branch.

The second webinar was on the topic of Face detection, Normalization and recognition by Prof. Kiran Talele. Apart from being the student activities chair for IEEE-SPIT, he is also an ex-com member of IEEE Bombay section. In this session Prof. Talele gives in-depth knowledge about the process of face DNR with the example of the most popular algorithm in the field: the viola-jones face detector.

IEEE SPIT's third webinar of the five day webinar series was on image classification, which was conducted by Prof. Vijaya Kamble on 25th May. Prof. Vijaya kamble is an assistant professor at SPIT. Her areas of interest include Digital image processing and digital signal processing and applications.

The fourth webinar was conducted by Dr. Sujata Kulkarni, Associate professor at SPIT. She has a Ph.D in electronics. She has had many international journal and conference publications under her name. Her areas of interests include pattern recognition and embedded systems.



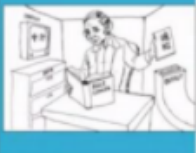
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### "Chinese room" argument [Searle 1980]

- Person who knows English but not Chinese sits in room
- Receives notes in Chinese
- Has systematic English rule book for how to write new Chinese characters based on input Chinese characters, returns his notes
  - Person=CPU, rule book=AI program, really also need lots of paper (storage)

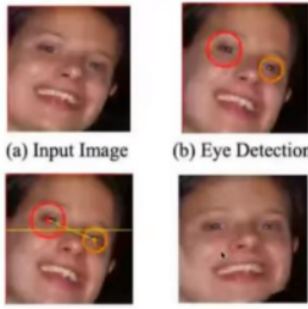


Dr. Anil Karande

Dr. Anil M. Karande (S.P.I.T., Mumbai)

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### Result of Face Normalization



(a) Input Image (b) Eye Detection

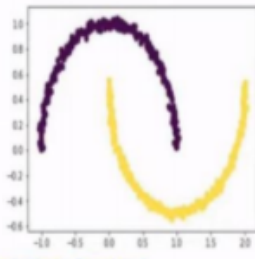
(c) Angle Calculation (d) Normalized Image

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FaceNMR By Talec 41

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```
import matplotlib.pyplot as plt
from sklearn.datasets import make_moons
X, y = make_moons(n_samples = 500, noise = 0.02, random_state = 417)
plt.scatter(X[:, 0], X[:, 1], c = y)
```



<https://www.geeksforgeeks.org/ml-introduction-to-kernel-pca/>  
<https://en.wikipedia.org/>  
<http://fourier.eng.hmc.edu/>

Vijaya Kamble



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