

TPA 7: Saliency detection from images of multiple objects: Top-down/ bottom-up or combination

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Problem Statement: This project is aiming at detection of salient foreground object from images by combining best bottom-up features (e.g. color, intensity etc) with top-down cognitive visual features (e.g., faces, humans, cars, etc.).

Input:

- Sample images for training
- Test images containing single prominent object, for detection

Expected Output: The developed code should be able to do the following

- Segmented salient foreground objects

Methodology:

- Top/Down : Supervised (Use MKL / Deep Learning techniques).
- Bottom-up : Unsupervised.

Hint for excellence: *Special Credit will be given if the designed system could able to detect salient objects from images having background clutter and illumination and pose variation*

References

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