


# HAND REGION EXTRACTION BY SALIENCY BASED COLOR COMPONENT ANALYSIS

Aarthi R ,S Harini ,V Hari Prasad  
Assistant Professor ,Undergraduate ,Undergraduate  
Department Of Computer Science And Engineering  
Amrita School Of Engineering,Amrita Vishwa  
Vidyapeetham,Coimbatore,India

# Abstract:

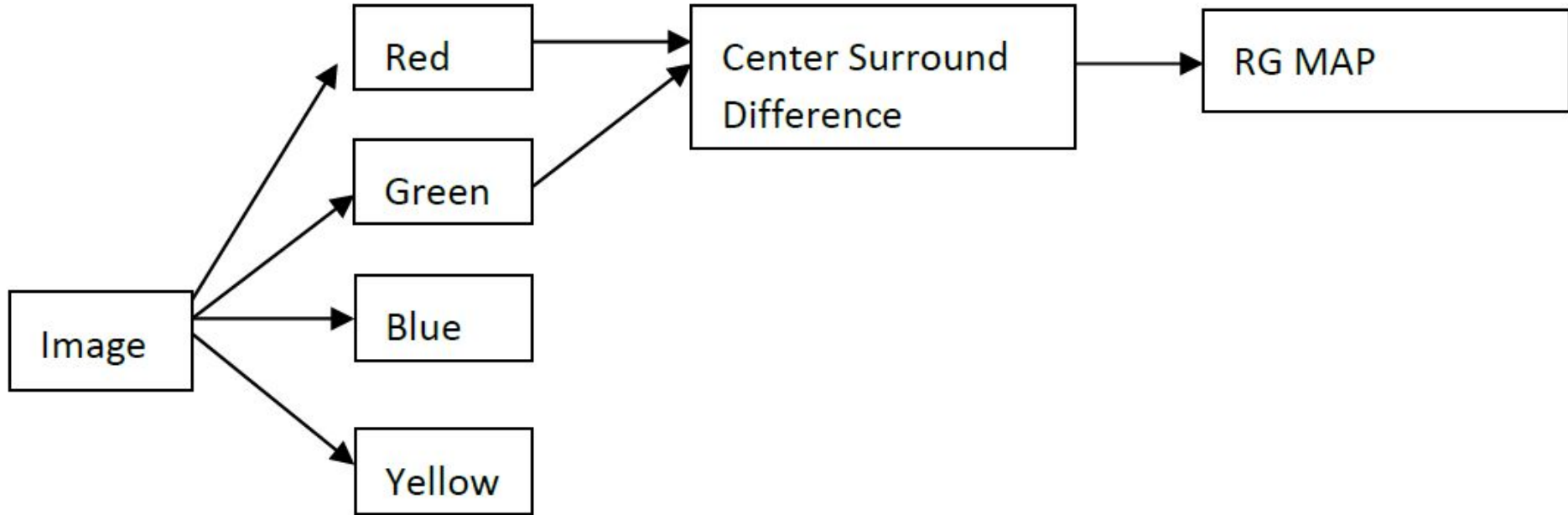
- This paper's objective is to propose saliency-based color model algorithm for hand segmentation under constrained and non-constrained environments.
  - The objective of this paper is to excel in the region of skin color detection for human-like interaction between the end user and the computer.
  - IndexTerms:color,map,salient,feature ,intensity,saturation
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# Color Models For Hand Segmentation:

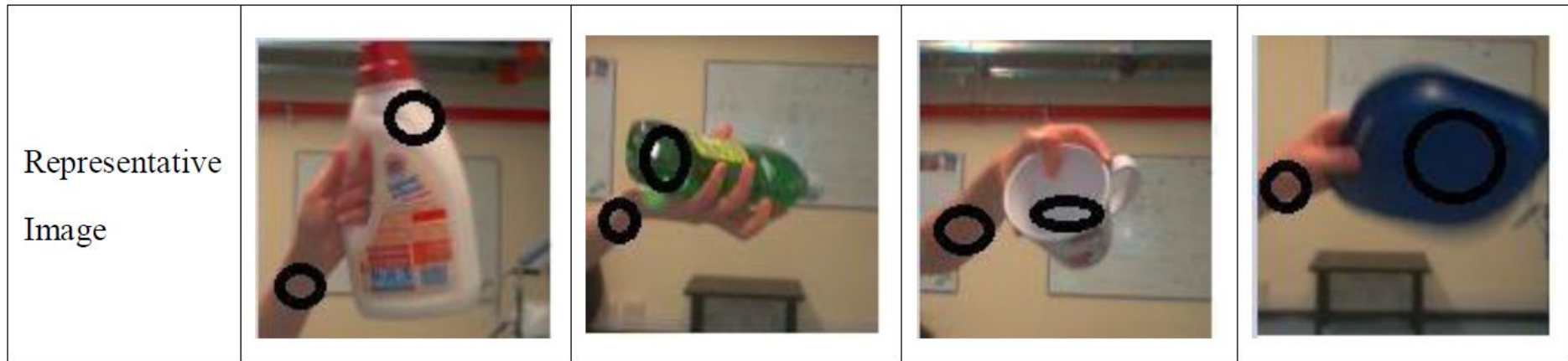
- HSV Model:
- RGB Model:
- YCbCr Model:
- HSI Model:
- CMYK Model



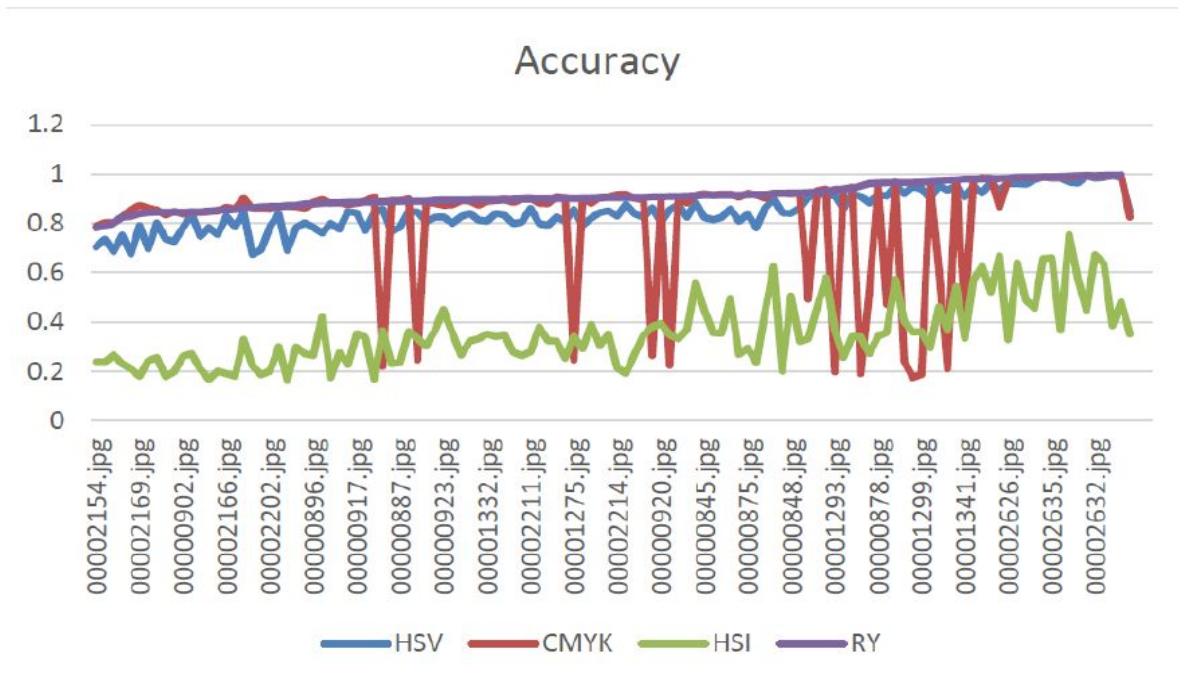
# Saliency Model:





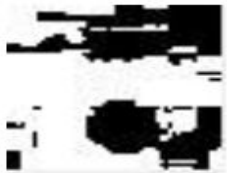





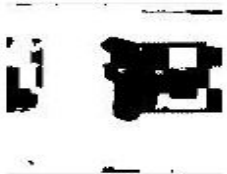















# Comparison between hand and object



# Accuracy:



Original Image	Ground Truth Image	HSV	CMYK	HSI	Salient Model
					
					
					
					

# Conclusion:

- We can conclude that RY additive salient model performs the best among the hand segmentation algorithms.
- All the objects irrespective of their color combination values are detected a non-hand area in this algorithm.
- It can also be inferred that HSV performs the second best. In order to choose the best algorithms, we can RY additive salient model followed by HSV algorithm.

