CONTENT BASED IMAGE RETRIEVAL USING SALIENT ORIENTED HISTOGRAM

Report

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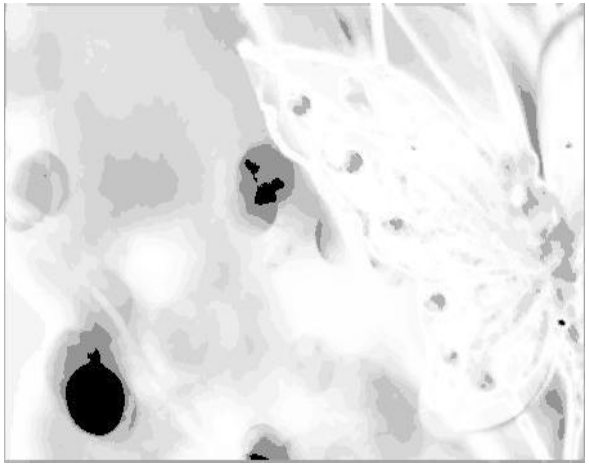
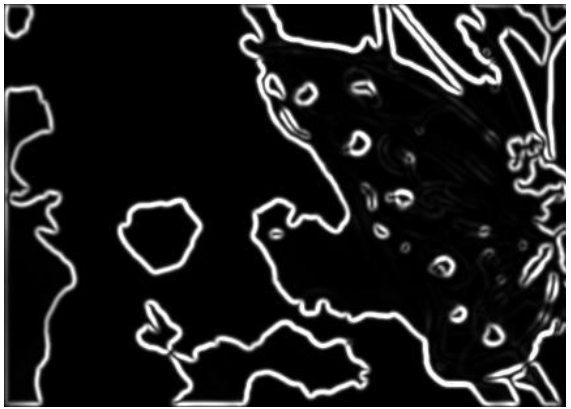
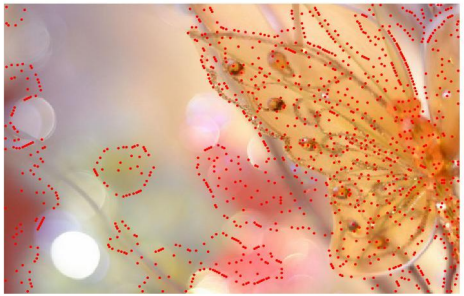
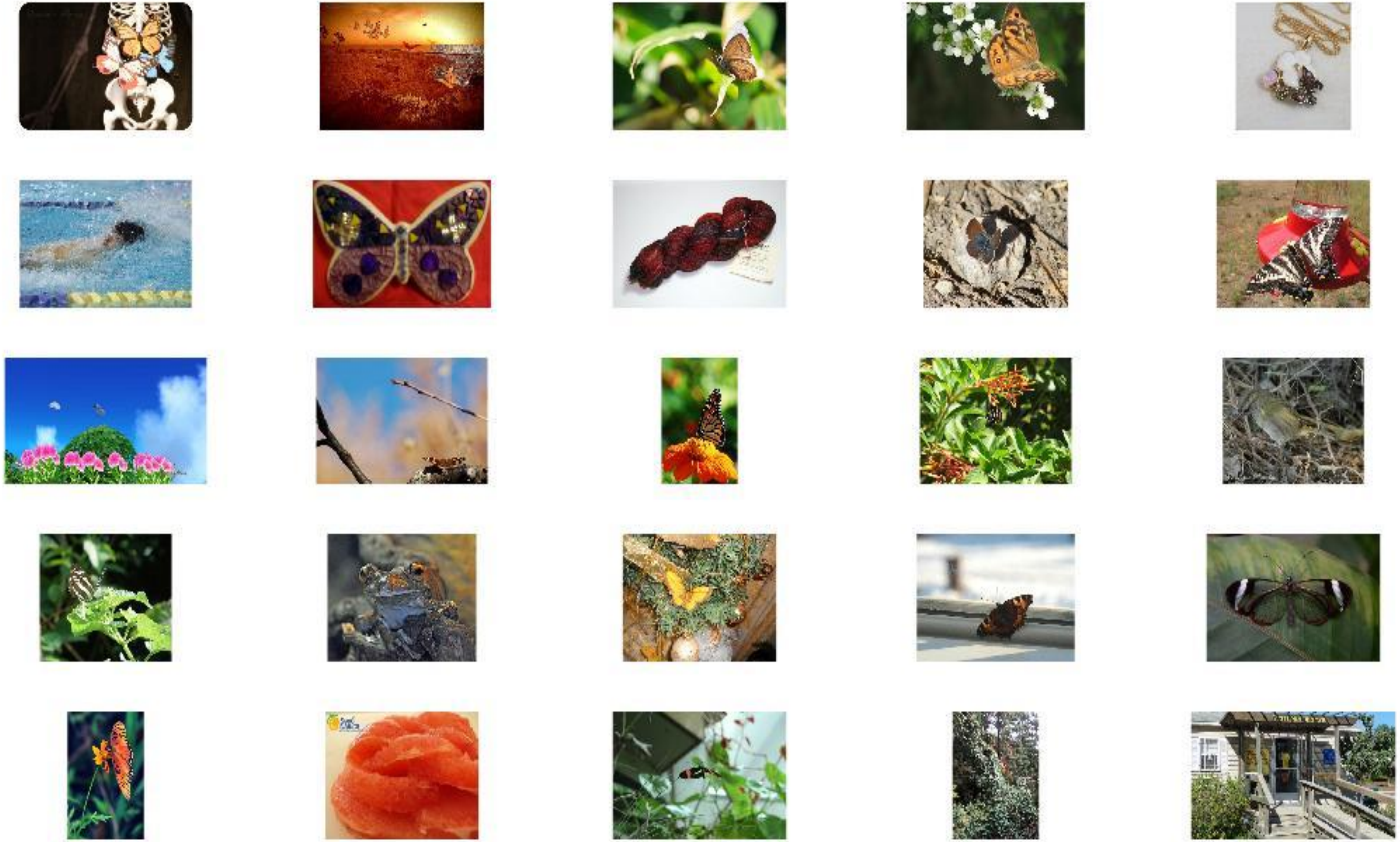


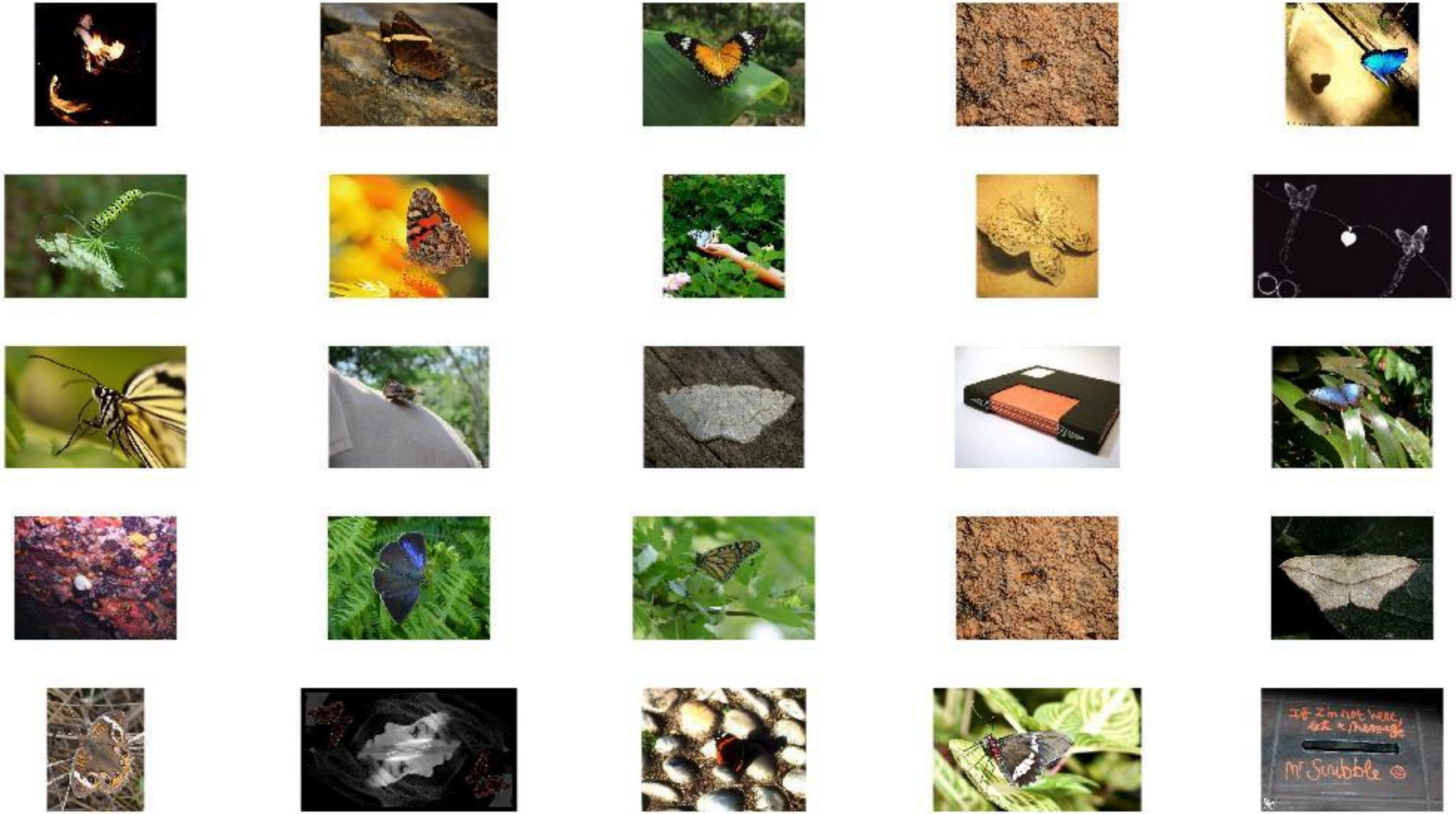




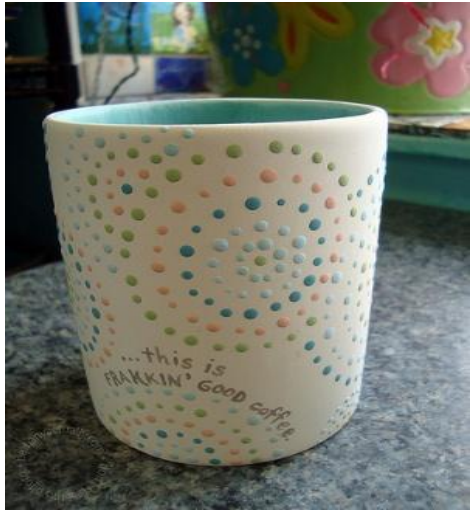
SALIENCY MAP-MASK-EDGE MAP-HARRIS FEATURE POINTS-MHEC FEATURE POINTS

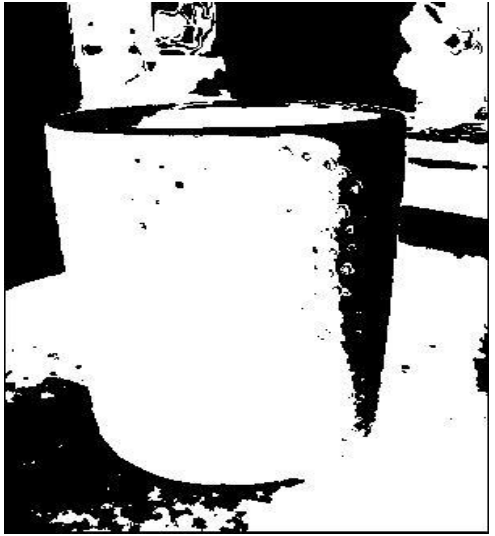


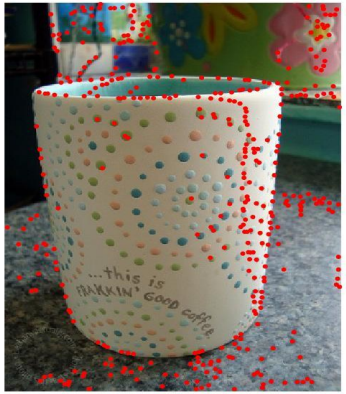
HARRIS BASED SOH RESULTS



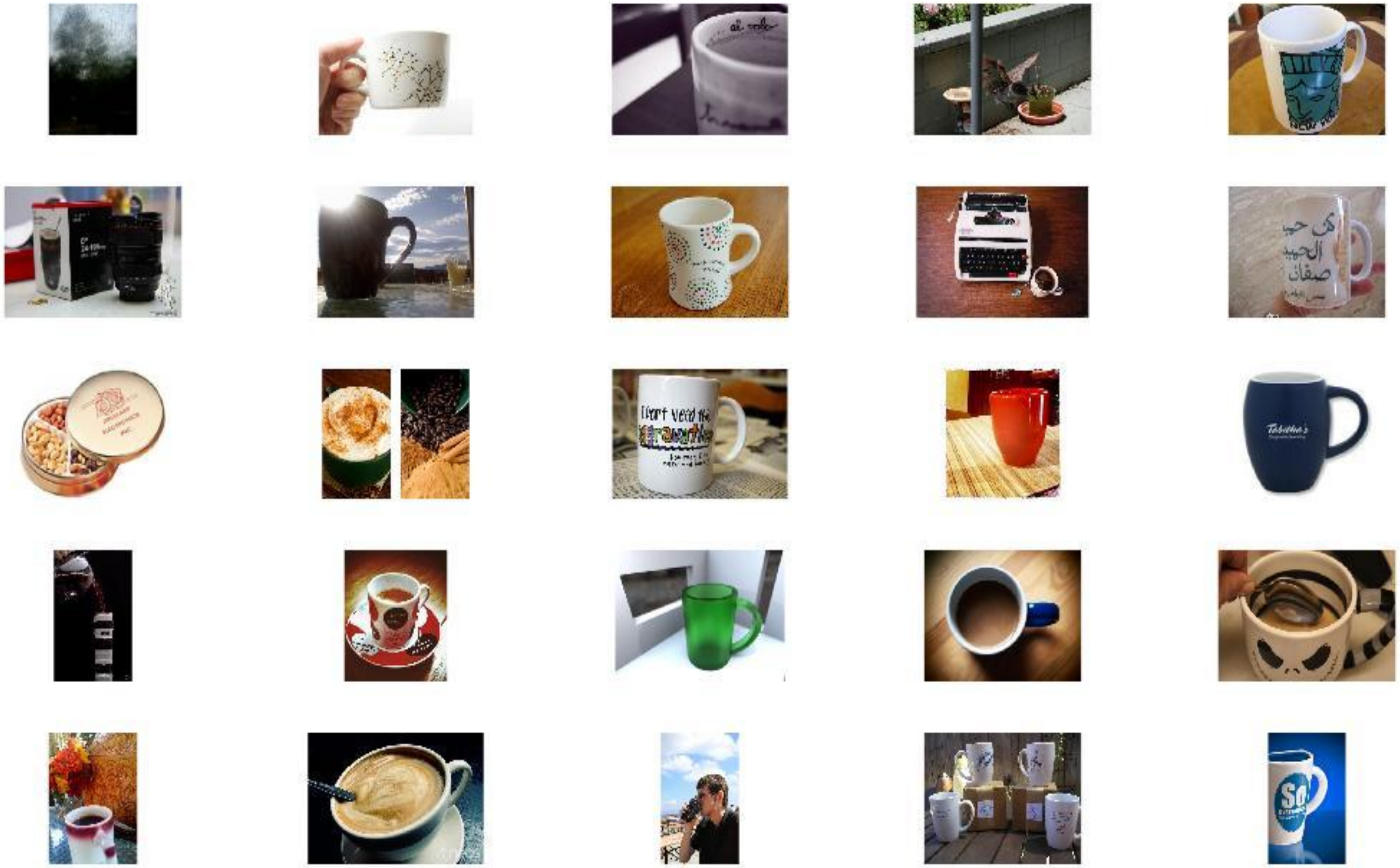
MHEC BASED SOH RESULTS



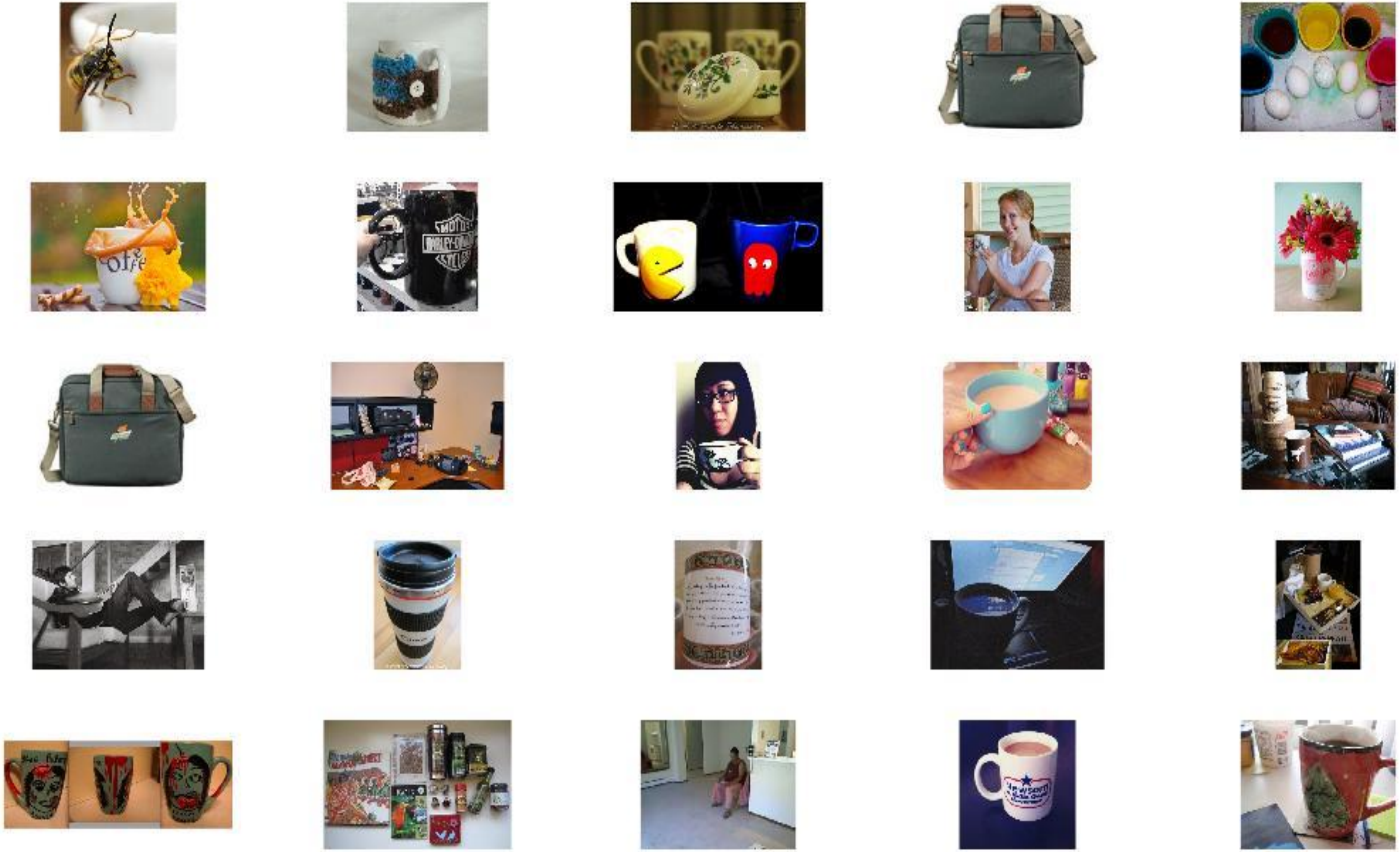




SALIENCY MAP-MASK-EDGE MAP-HARRIS FEATURE POINTS-MHEC FEATURE POINTS



HARRIS BASED SOH RESULTS

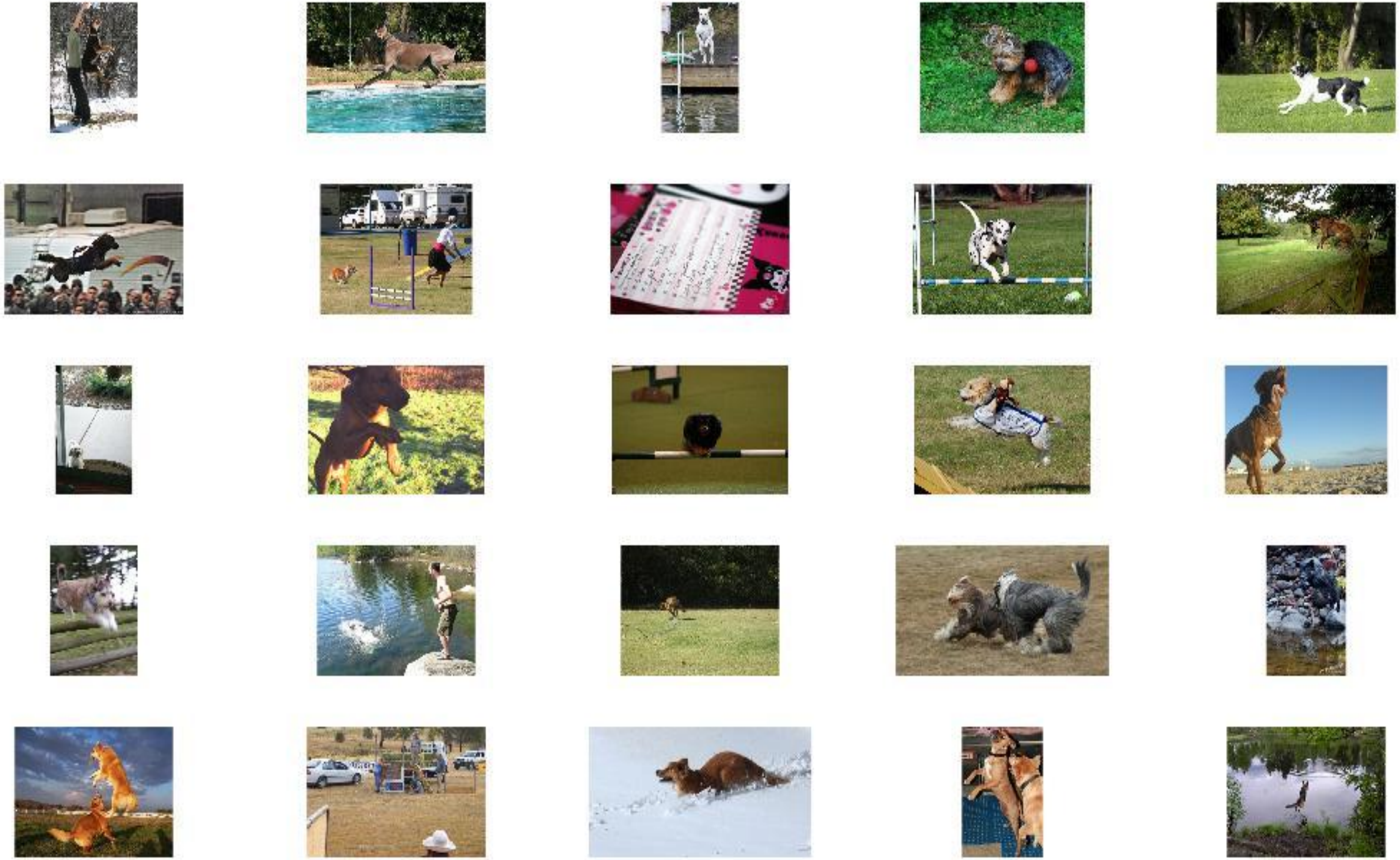


MHEC BASED SOH RESULTS






SALIENCY MAP-MASK-EDGE MAP-HARRIS FEATURE POINTS-MHEC FEATURE POINTS



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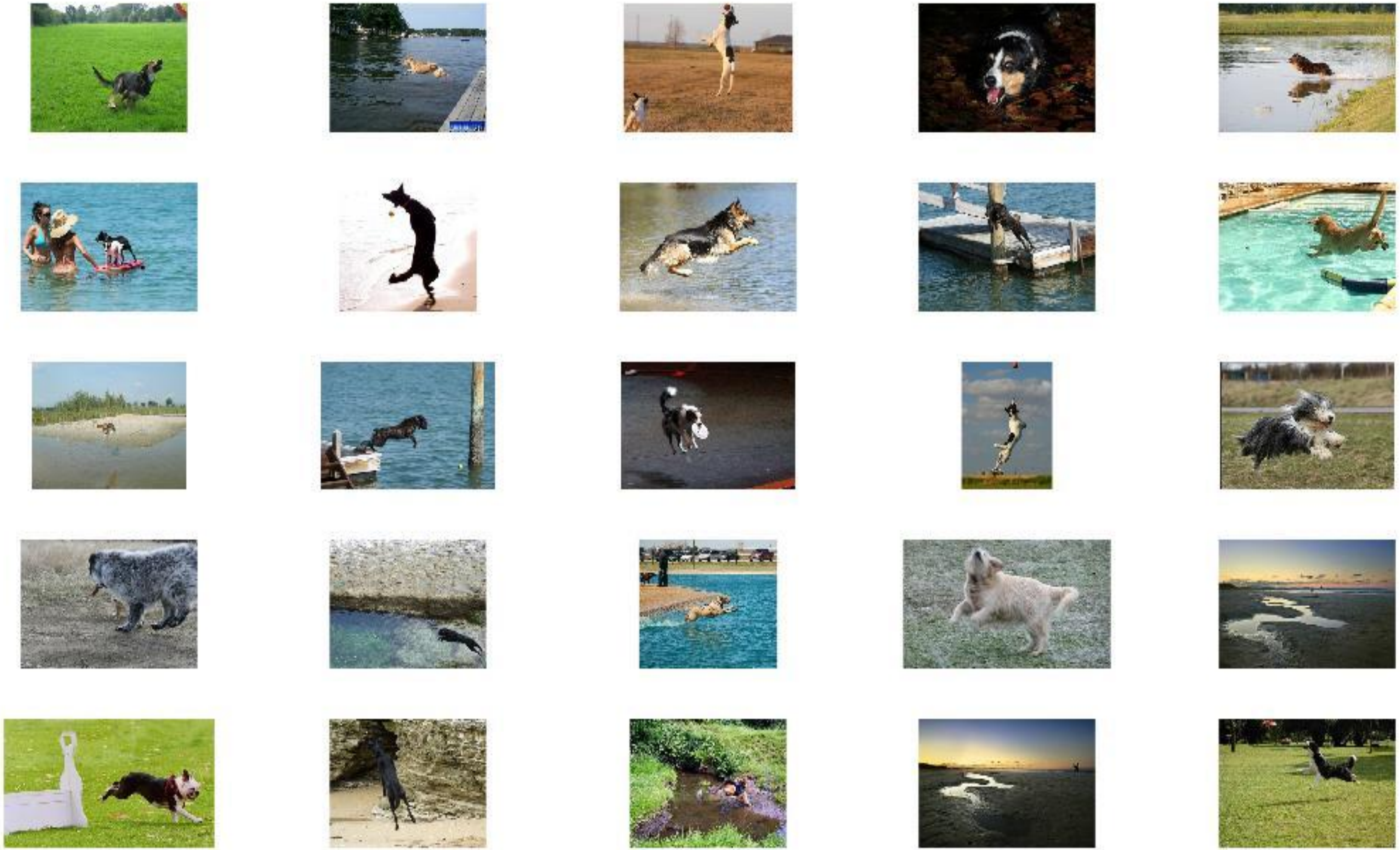
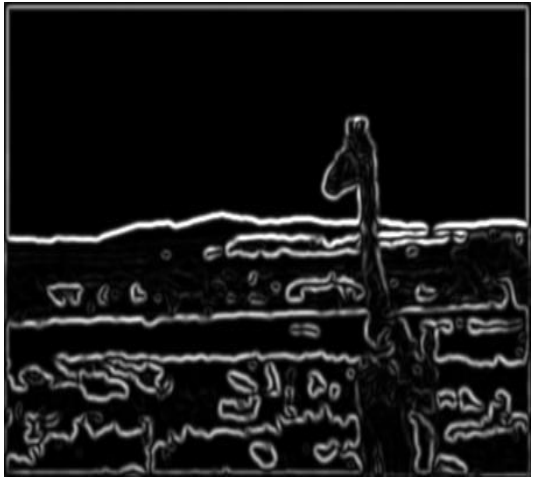
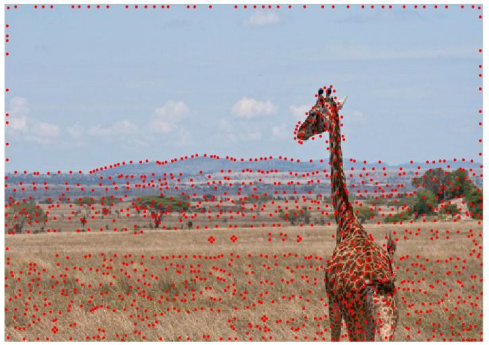


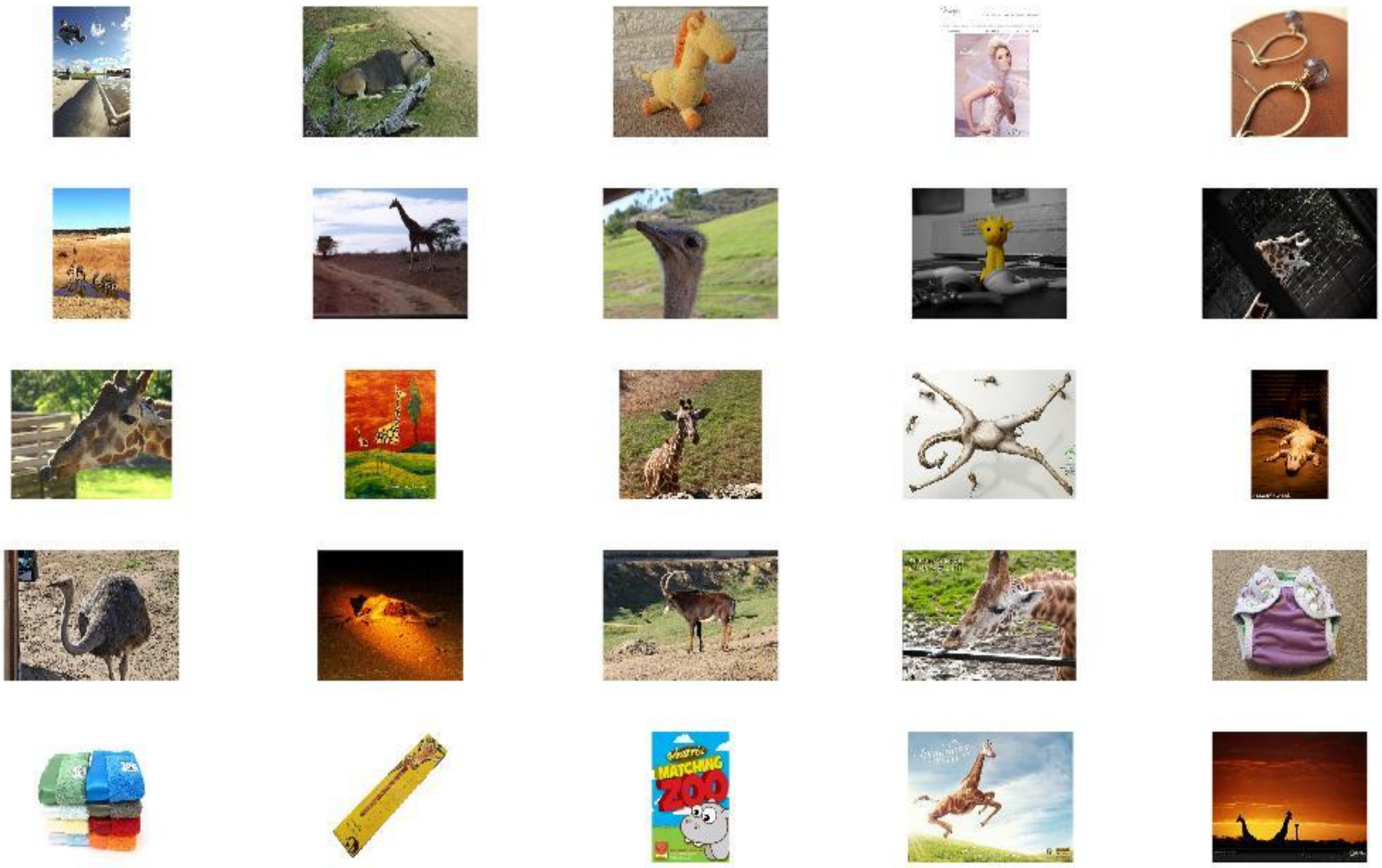
MHEC BASED SOH RESULTS



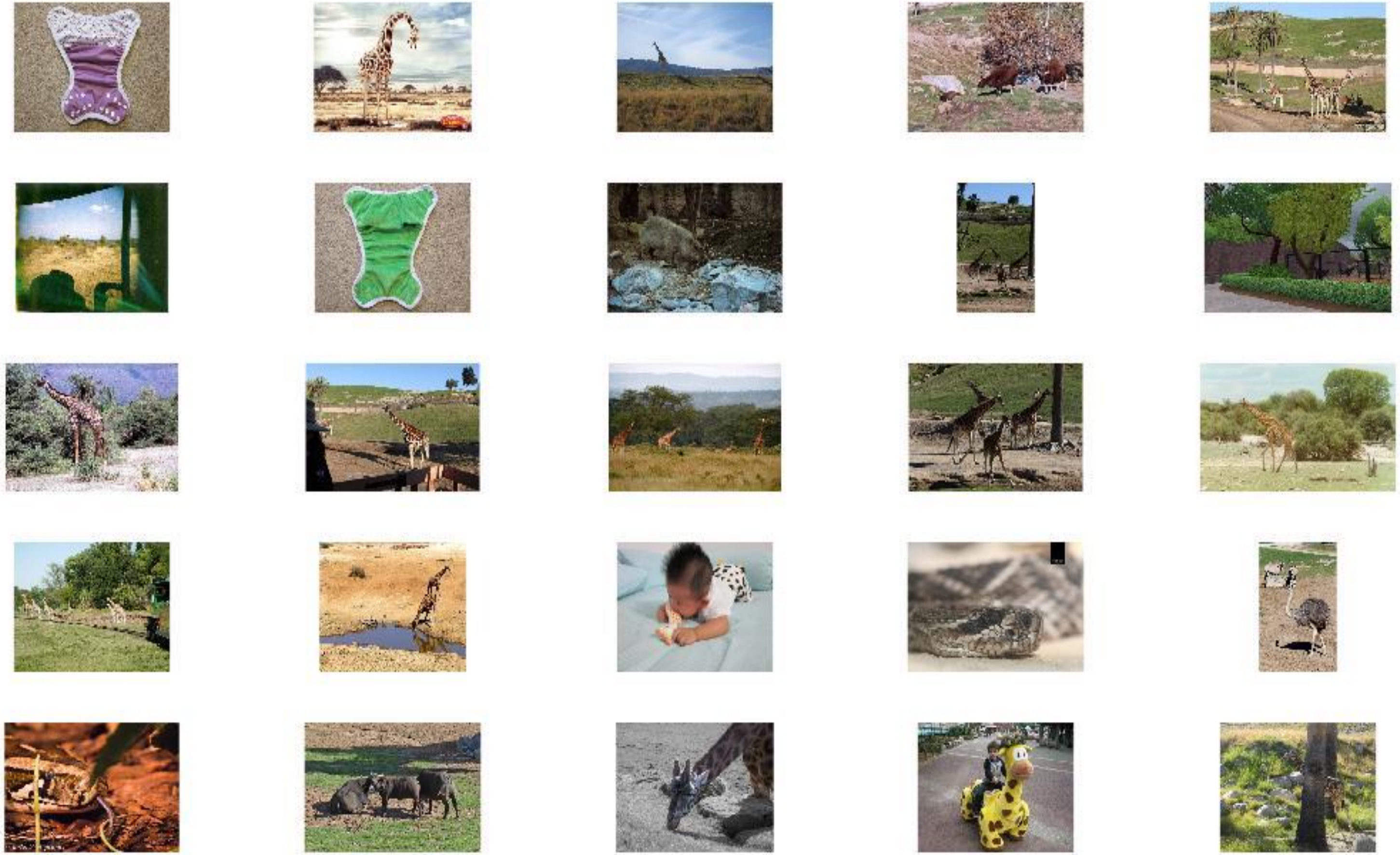





SALIENCY MAP-MASK-EDGE MAP-HARRIS FEATURE POINTS-MHEC FEATURE POINTS



HARRIS BASED SOH RESULTS

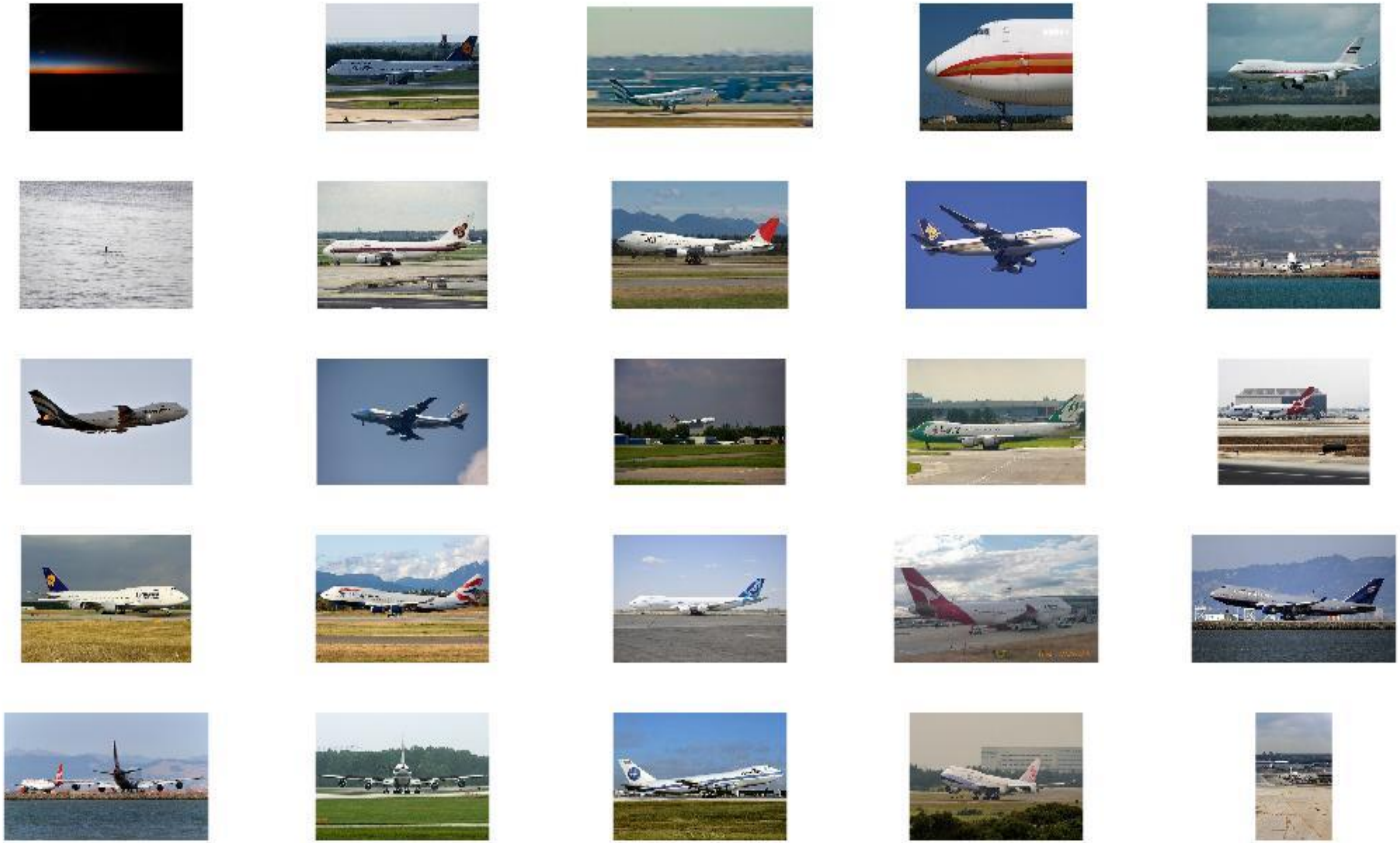


MHEC BASED SOH RESULTS






SALIENCY MAP-MASK-EDGE MAP-HARRIS FEATURE POINTS-MHEC FEATURE POINTS



HARRIS BASED SOH RESULTS























MHEC BASED SOH RESULTS

RESULTS

SOH USING HARRIS FEATURE POINTS:

DATABASE	AVERAGE		MAXIMUM	
	T50	T100	T50	T100
Butterfly	44.5	47.5	52	53
Coffee Mug	56.22	56.88	70	65
Dog Jump	58.71	58.57	78	80
Giraffe	21.71	21.28	30	28
Plane	56.5	63.08	76	76

RESULTS

SOH USING MHEC FEATURE POINTS:

DATABASE	AVERAGE		MAXIMUM	
	T50	T100	T50	T100
Butterfly	54.5	54.25	58	57
Coffee Mug	61.33	61	70	69
Dog Jump	68	68.14	76	74
Giraffe	31.42	29	40	35
Plane	72	70.08	80	78

OBSERVATIONS

- The strength of this method lies in how much precise the mask computation is. We have tried both adaptive thresholding and grabcut for this purpose. Grabcut is an interactive method by which we can manually cut out the mask, thus giving better results. But in this case it is not possible as we have huge dataset. Thus, the accuracy is affected.
- Harris corner detector at times works better than MHEC as it selects only corner. So when the mask is not accurate, this reduces the error as compared to MHEC which selects the edges as well.

THANKS!!