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An independent evaluation of subspace facial recognition algorithms

Surajpal, Dhiresh Ramchander

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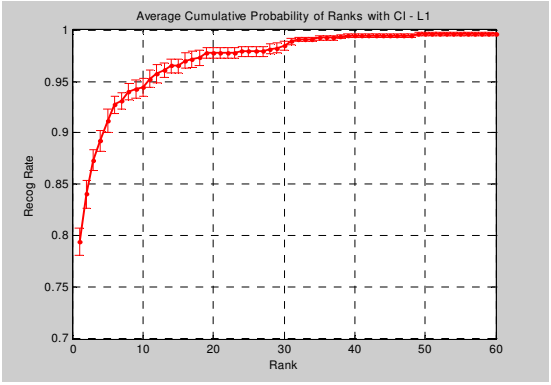
APPENDIX A

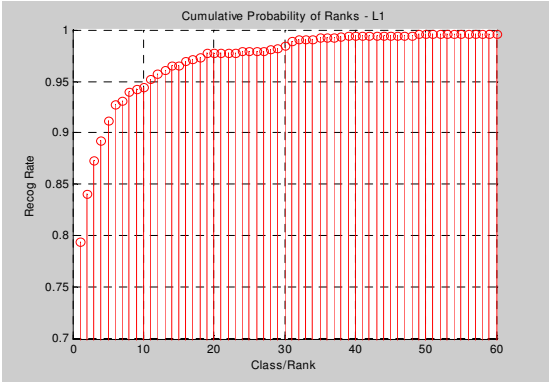
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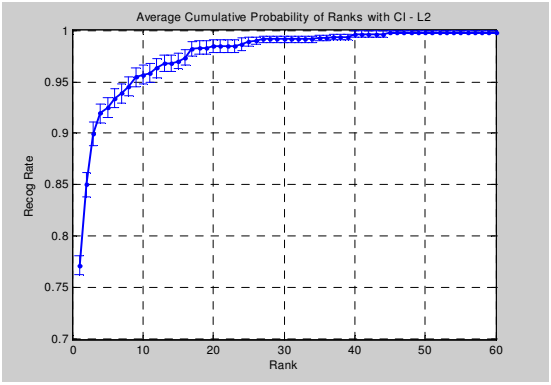
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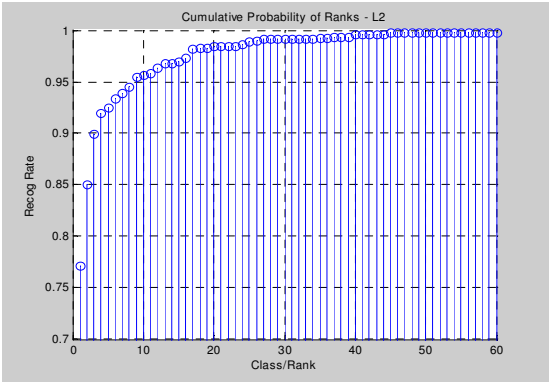
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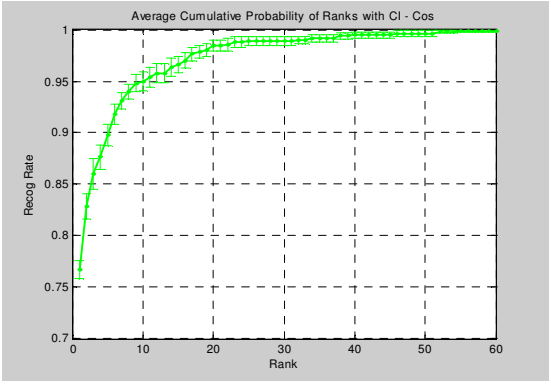
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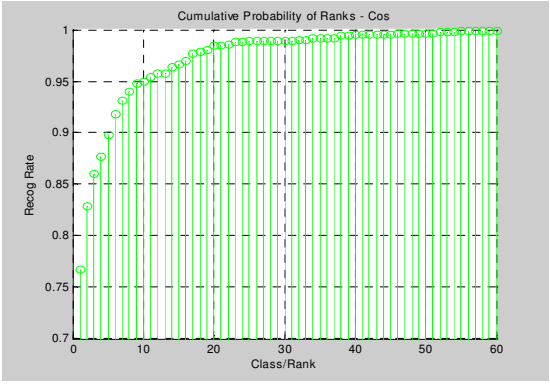


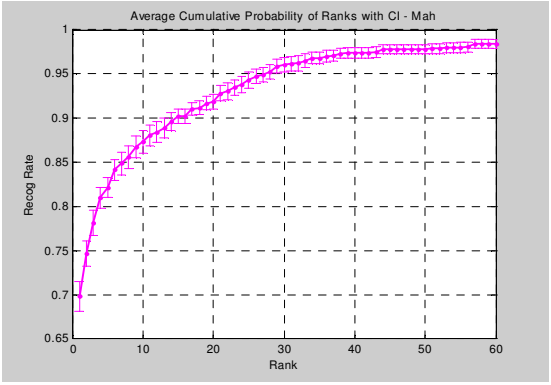


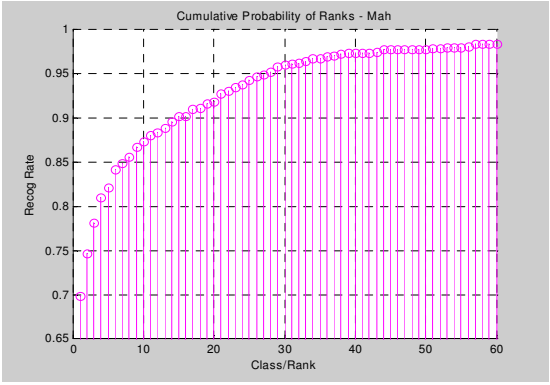


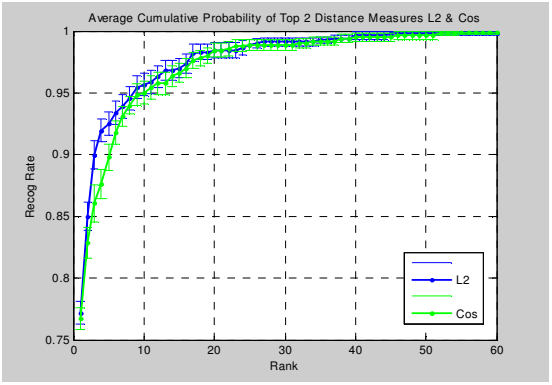




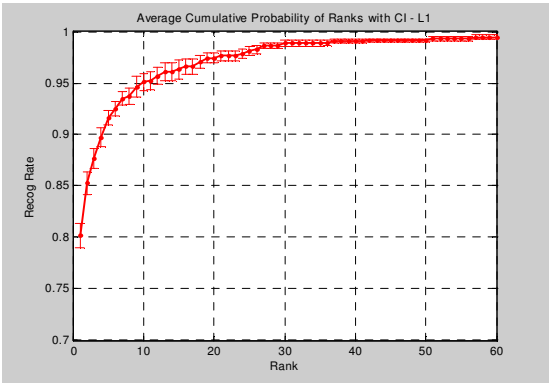


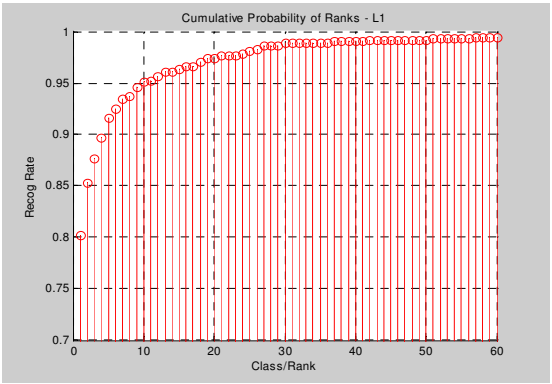


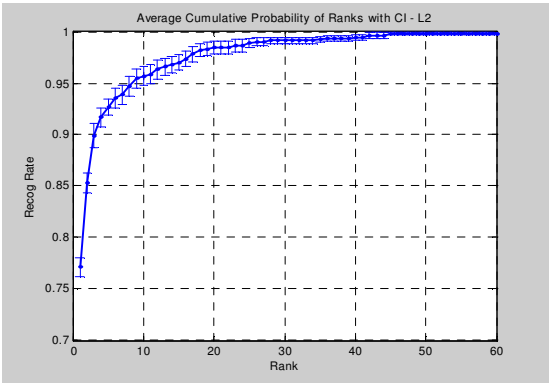


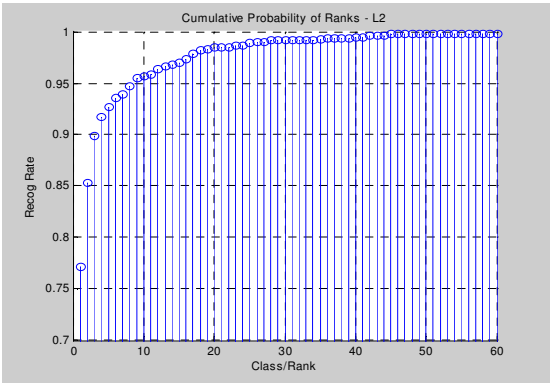

Average Cumulative Probability of Top 2 Distance Measures L2 & Cos
Recog Rate
Rank
L2
Cos

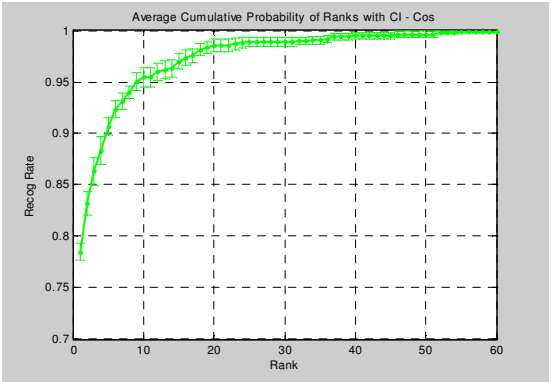
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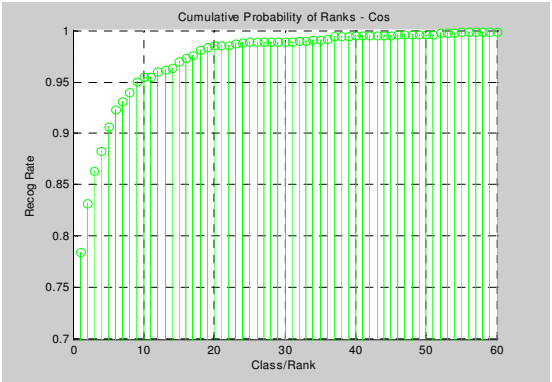

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

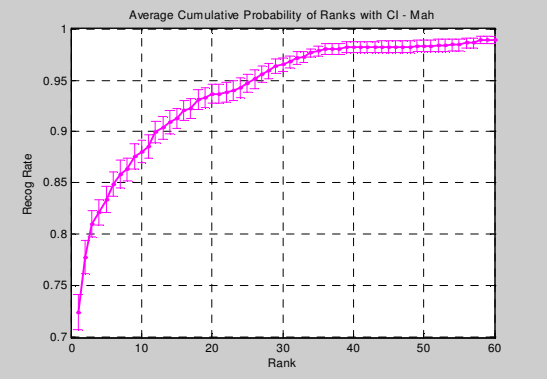

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

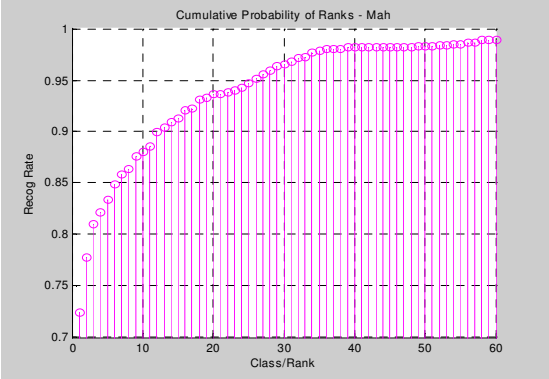

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

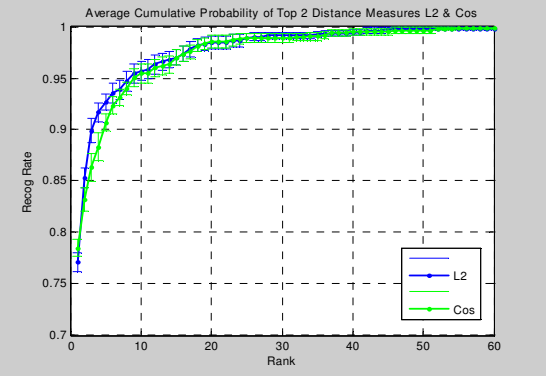

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

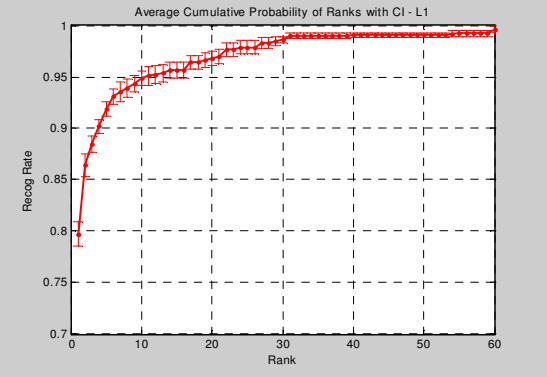

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

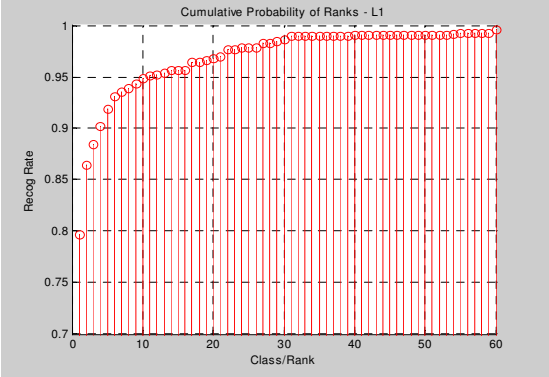

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

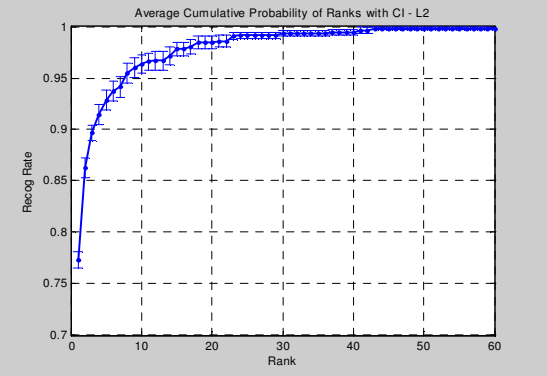

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

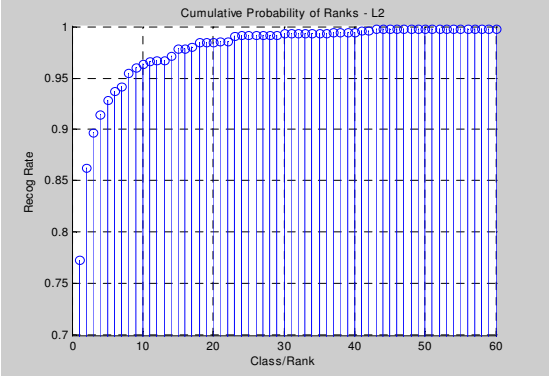

Average Cumulative Probability of Top 2 Distance Measures L2 & Cos
Recog Rate
Rank
L2
Cos

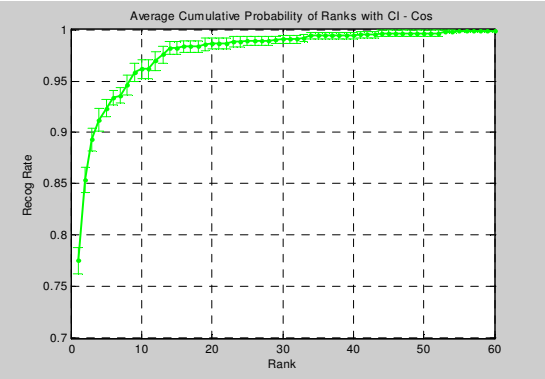
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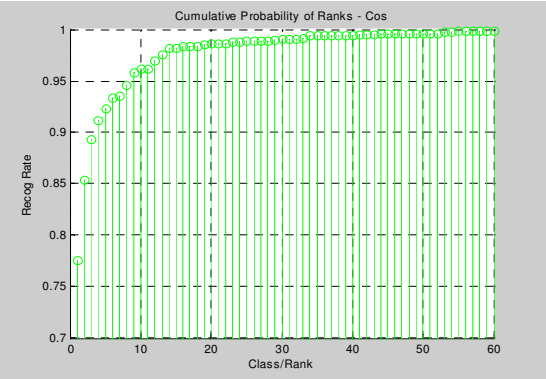

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

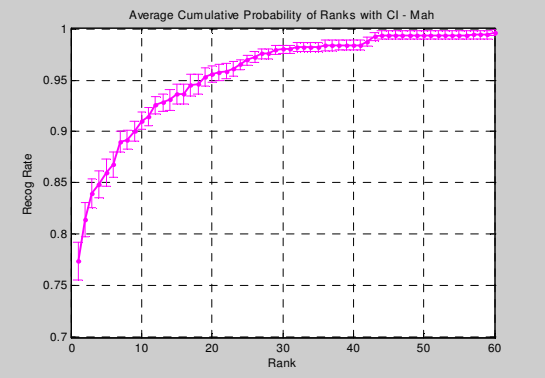

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

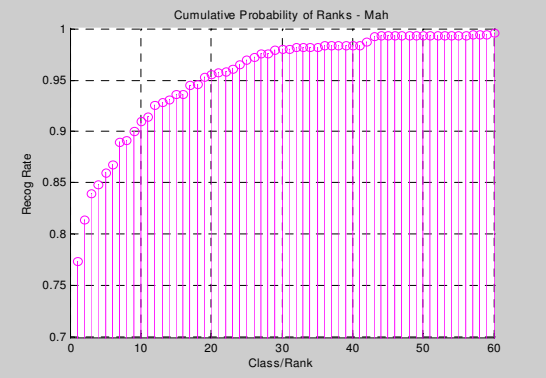

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

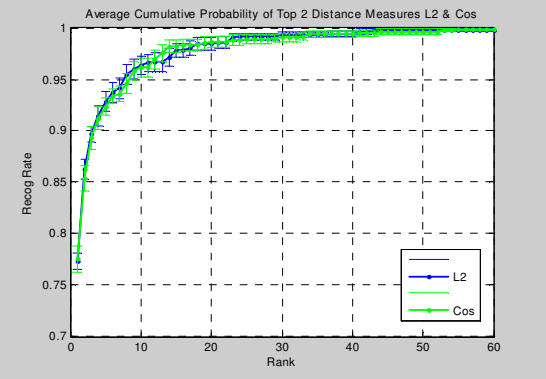

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank
1
0.95
0.9
0.85
0.8
0.75
0.7
0
10
20
30
40
50
60

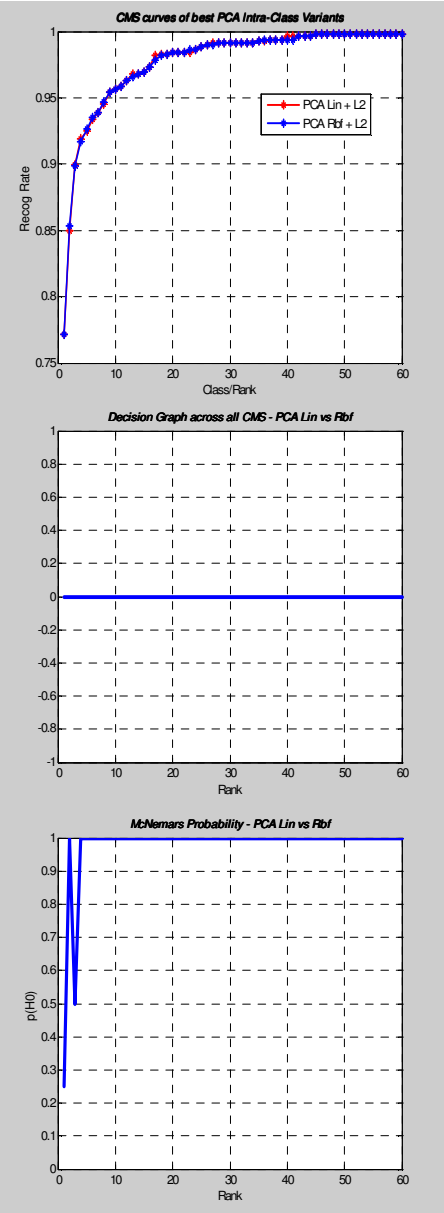

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank
1
0.95
0.9
0.85
0.8
0.75
0.7
0
10
20
30
40
50
60

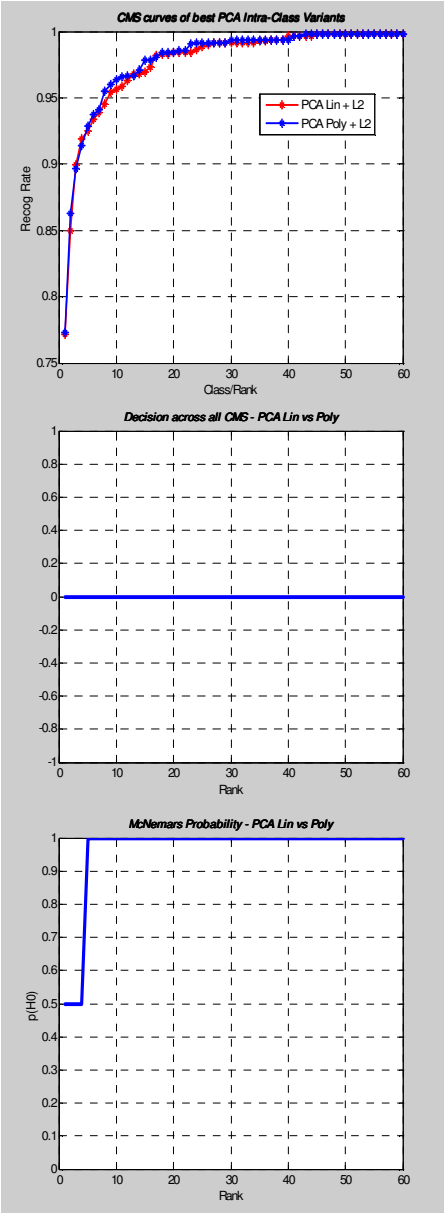

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank
1
0.95
0.9
0.85
0.8
0.75
0.7
0
10
20
30
40
50
60

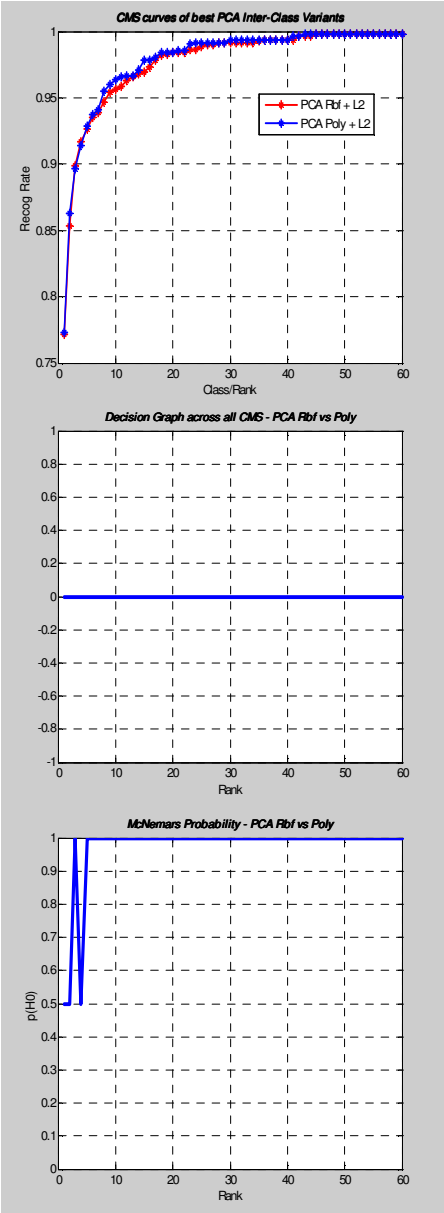

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank
1
0.95
0.9
0.85
0.8
0.75
0.7
0
10
20
30
40
50
60


Average Cumulative Probability of Top 2 Distance Measures L2 & Cos
Recog Rate
Rank
L2
Cos
1
0.95
0.9
0.85
0.8
0.75
0.7
0
10
20
30
40
50
60

McNemar's Testing for the PCA class in category of Expression



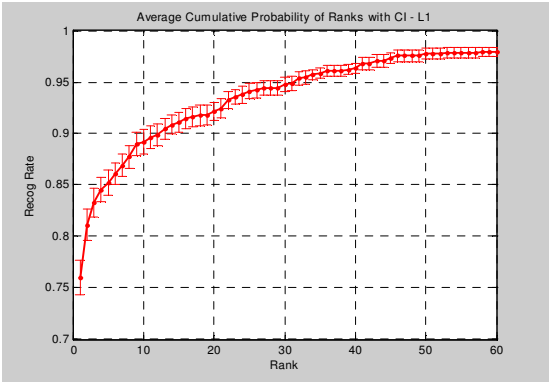


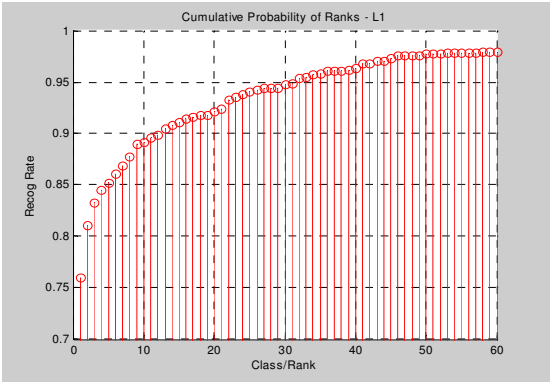


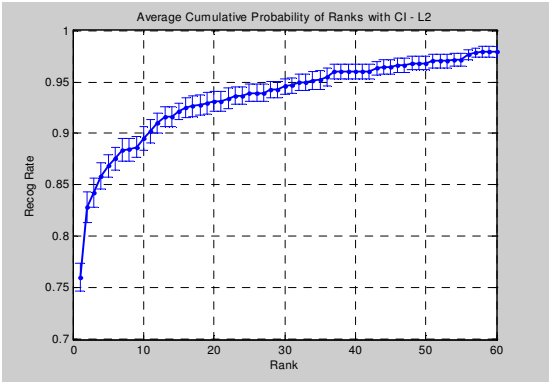
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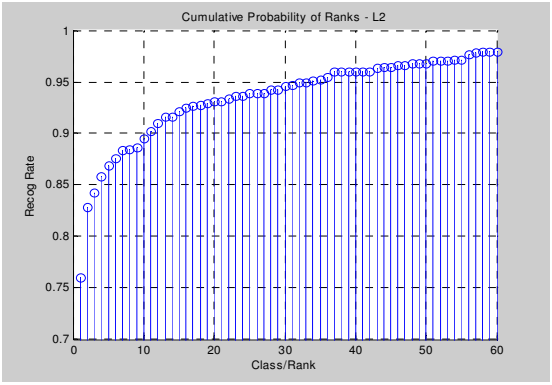
Confidence Interval & Stem plots

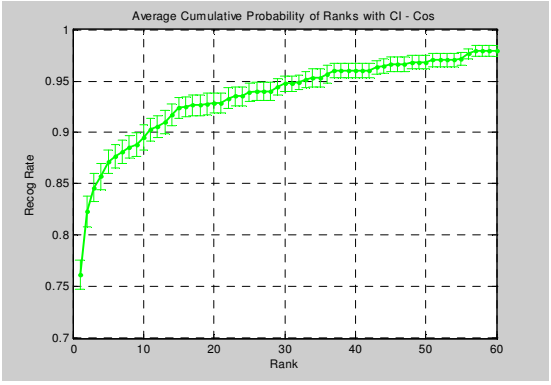
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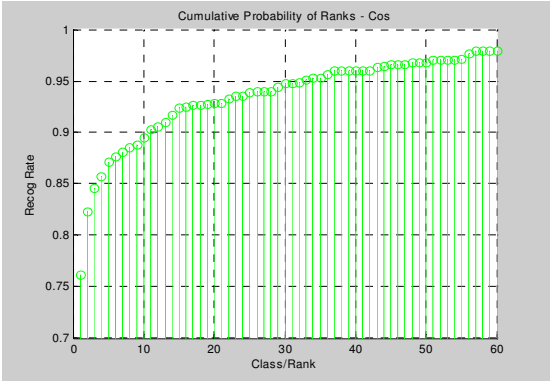


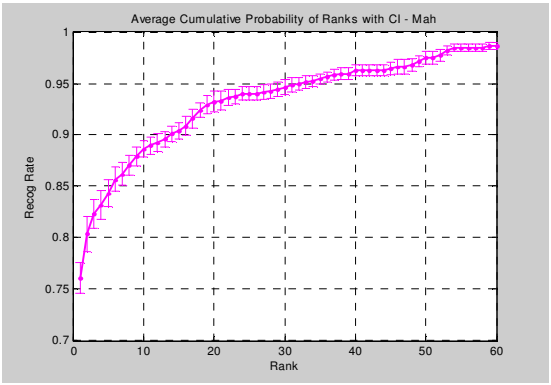


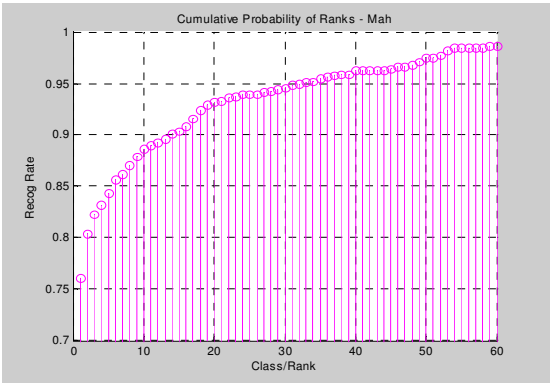


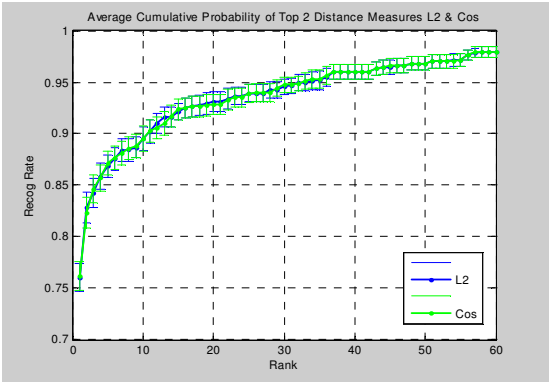




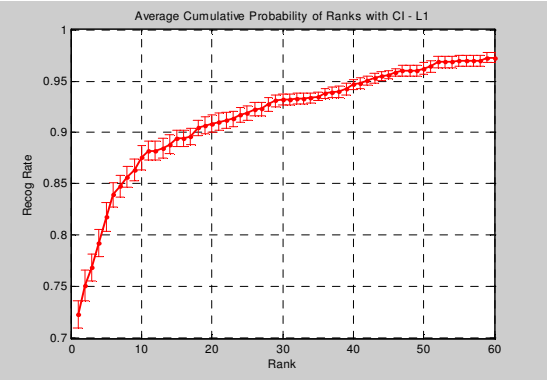


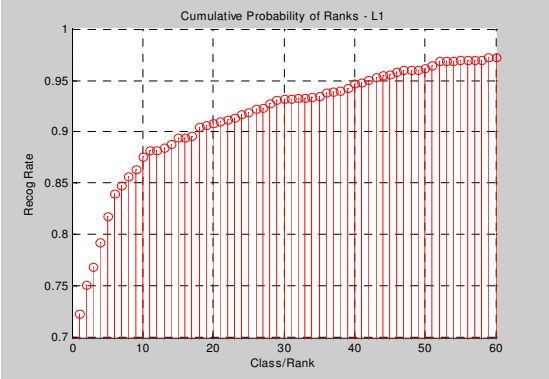


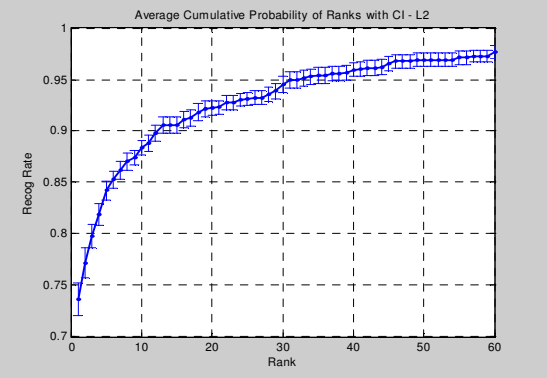


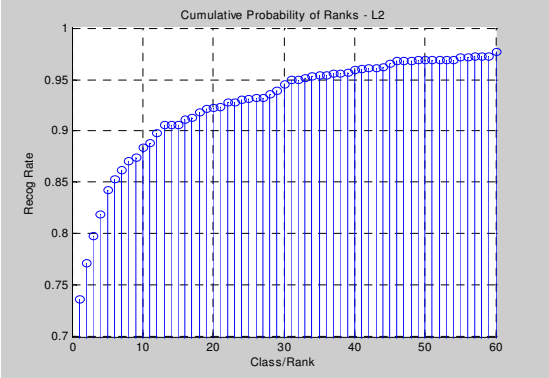

Average Cumulative Probability of Top 2 Distance Measures L2 & Cos
Recog Rate
Rank
L2
Cos

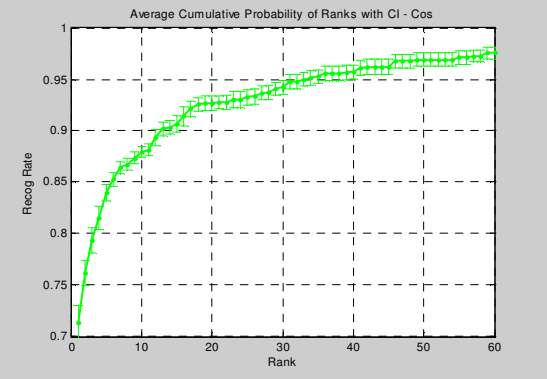
RBF

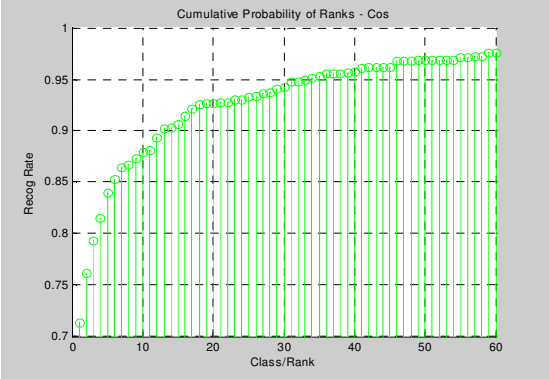

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

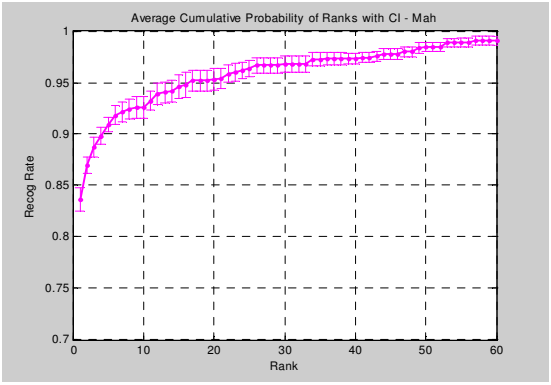

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

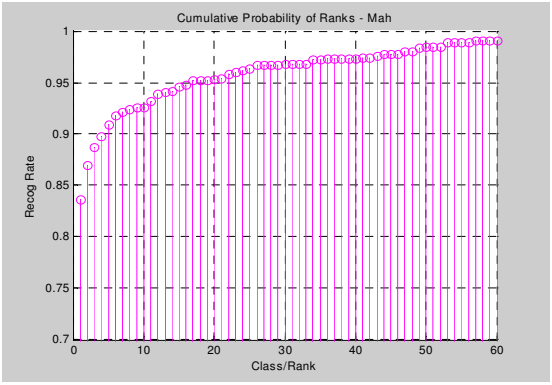

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

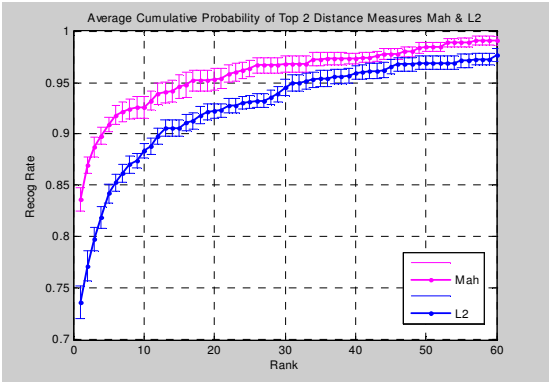

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

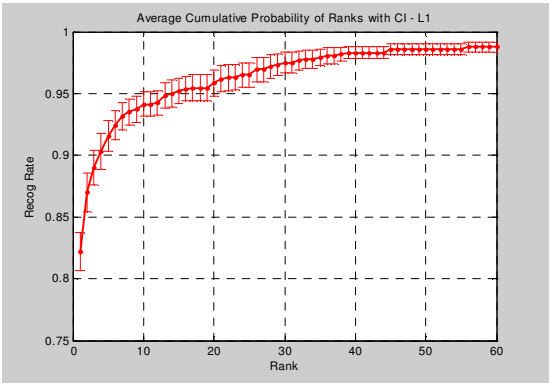

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

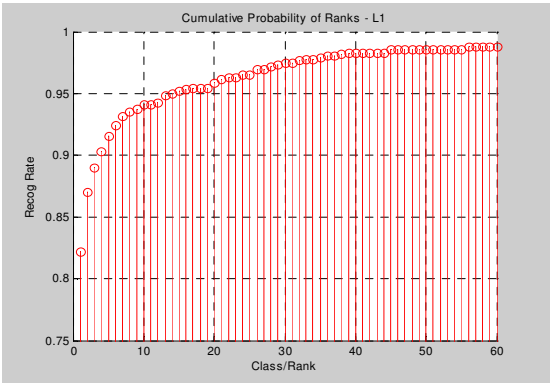

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

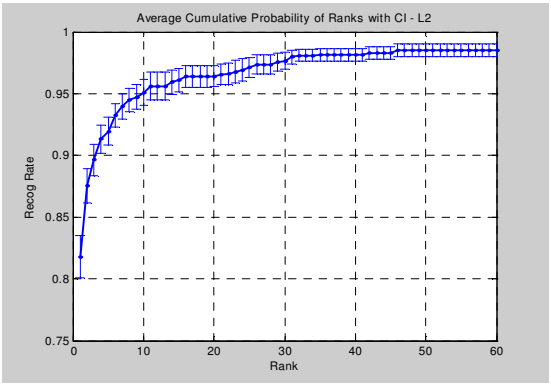

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

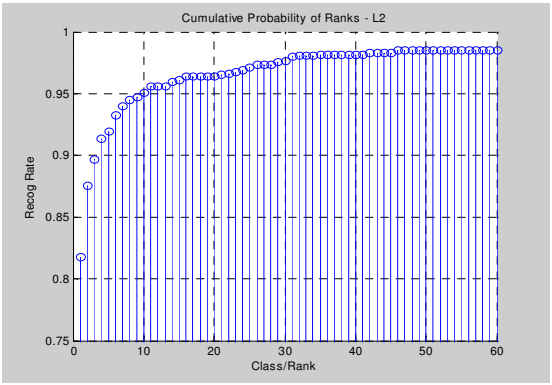

Average Cumulative Probability of Top 2 Distance Measures Mah & L2
Recog Rate
Rank
Mah
L2

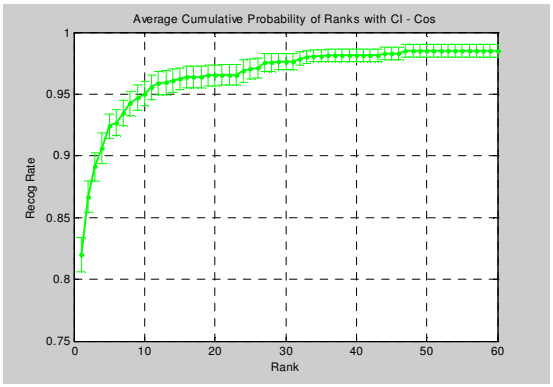
Polynomial

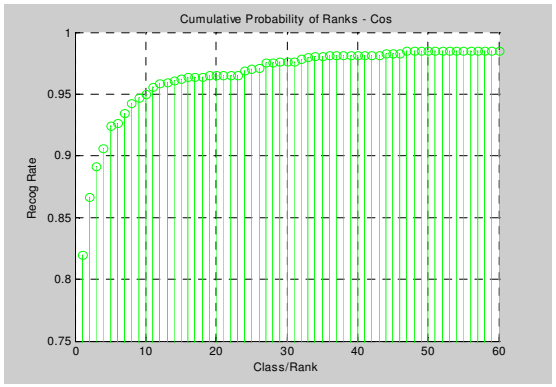

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

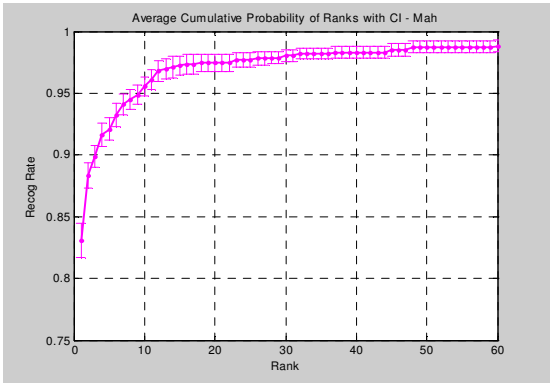

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

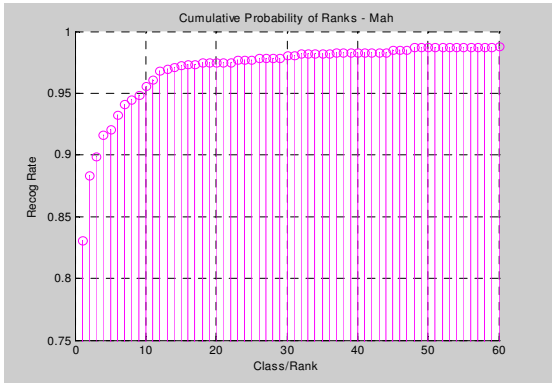

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

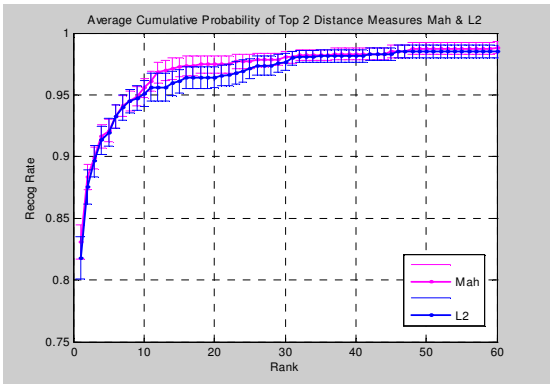

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank
1
0.95
0.9
0.85
0.8
0.75
0
10
20
30
40
50
60

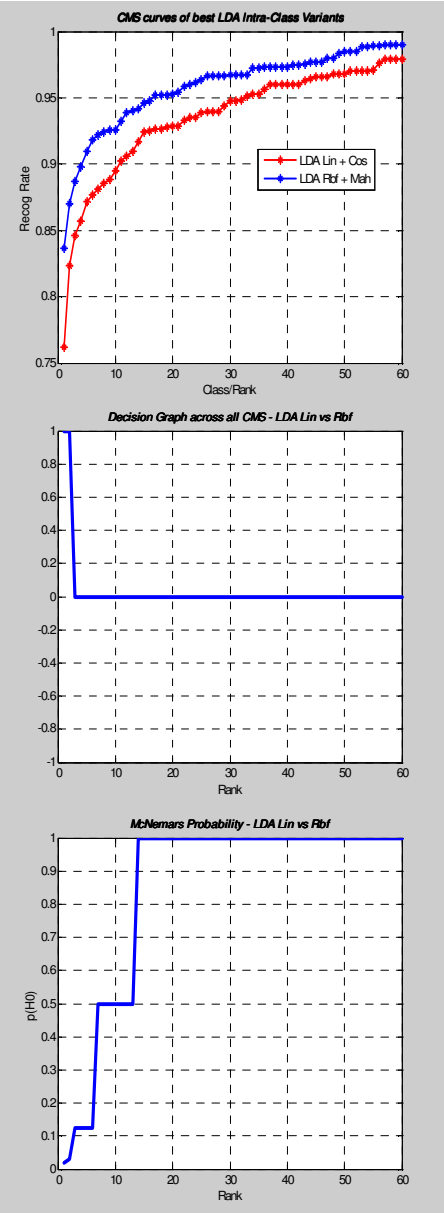

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank
1
0.95
0.9
0.85
0.8
0.75
0
10
20
30
40
50
60

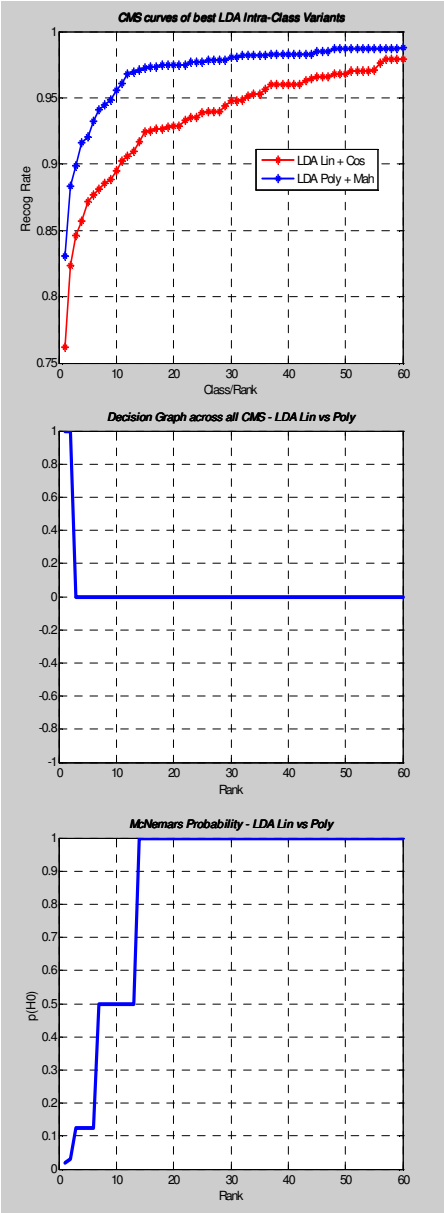

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank
1
0.95
0.9
0.85
0.8
0.75
0
10
20
30
40
50
60

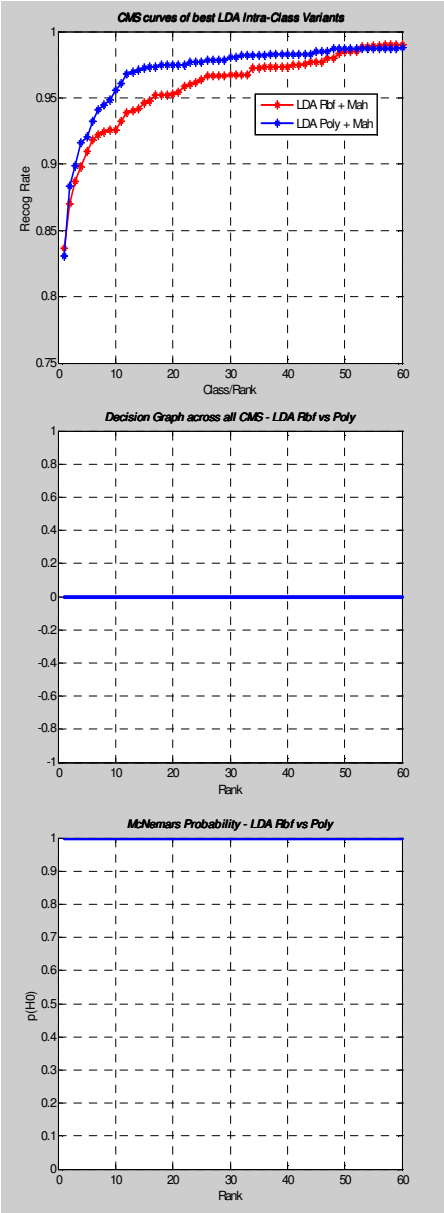

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank
1
0.95
0.9
0.85
0.8
0.75
0
10
20
30
40
50
60


Average Cumulative Probability of Top 2 Distance Measures Mah & L2
Recog Rate
Rank
Mah
L2
1
0.95
0.9
0.85
0.8
0.75
0
10
20
30
40
50
60

McNemar's Testing for the LDA class in category of Expression



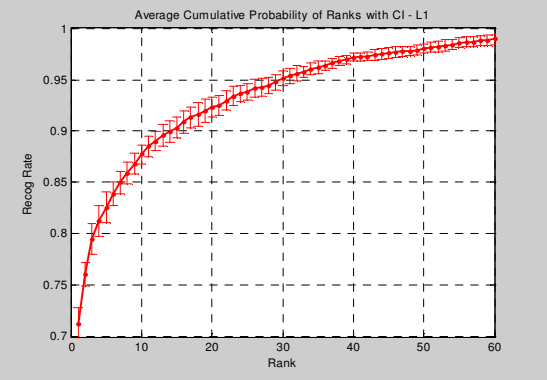


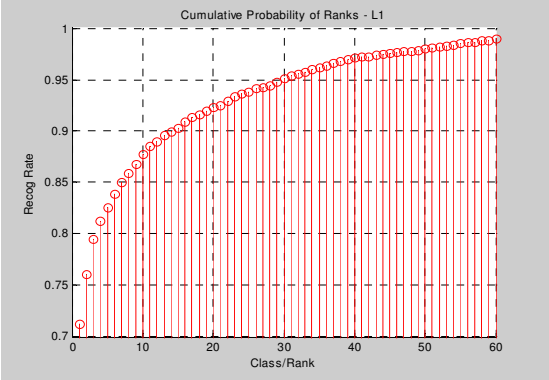


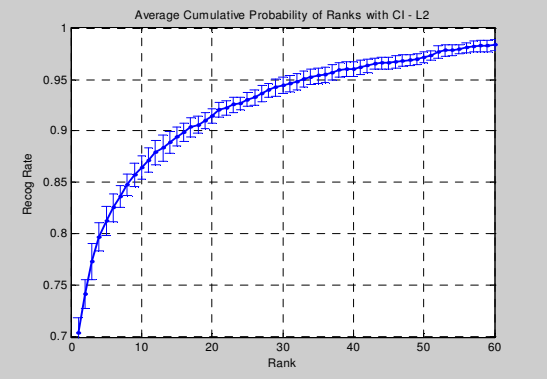
ICA

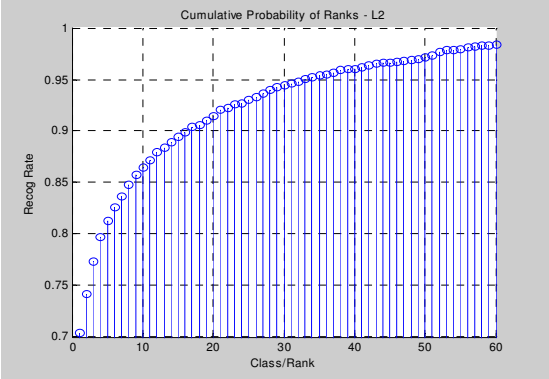
Confidence Interval & Stem plots

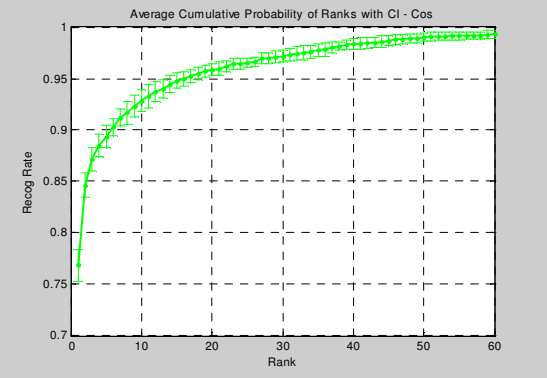
InfoMax Architecture I

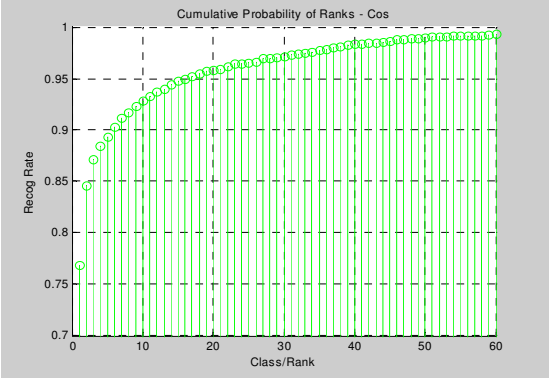


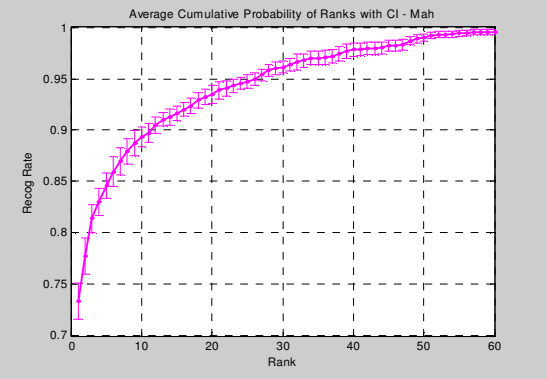


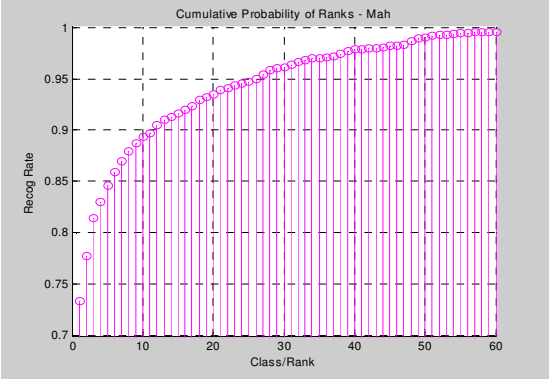


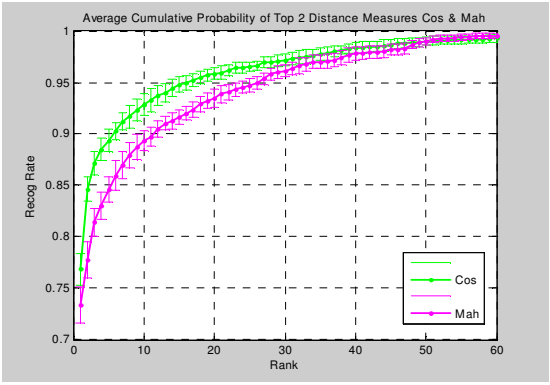




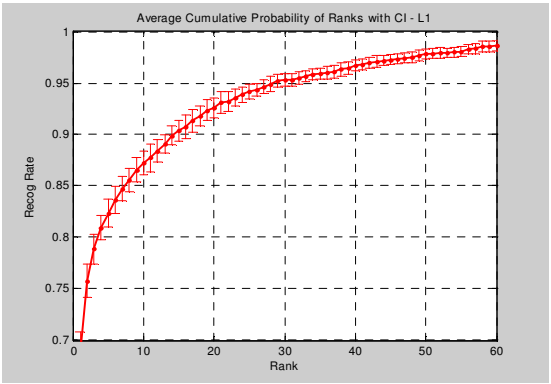


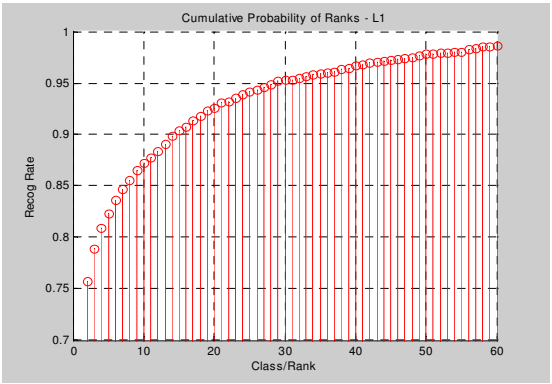


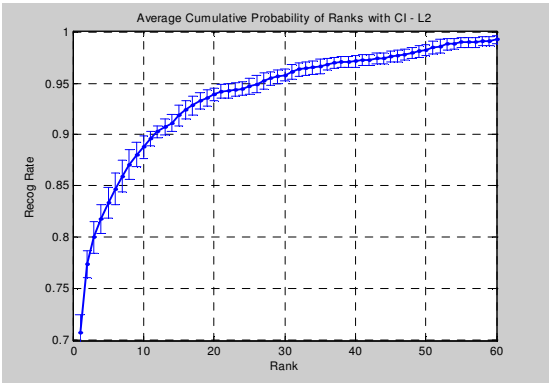


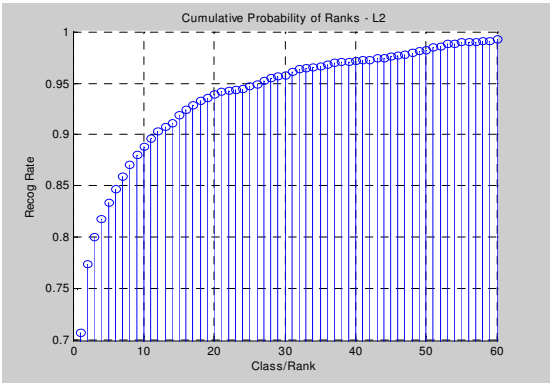


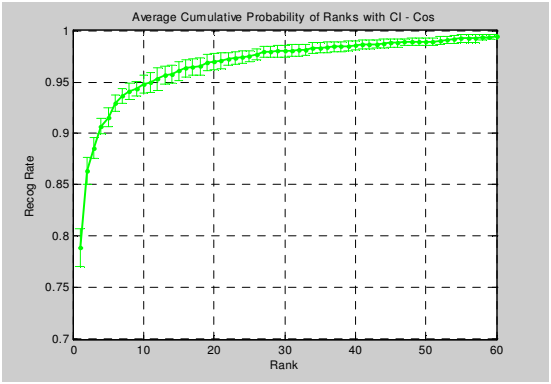
InfoMax Architecture II

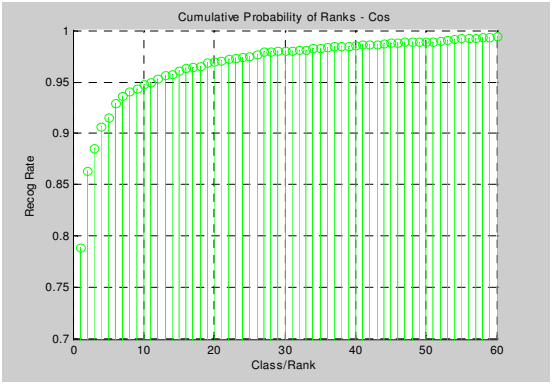


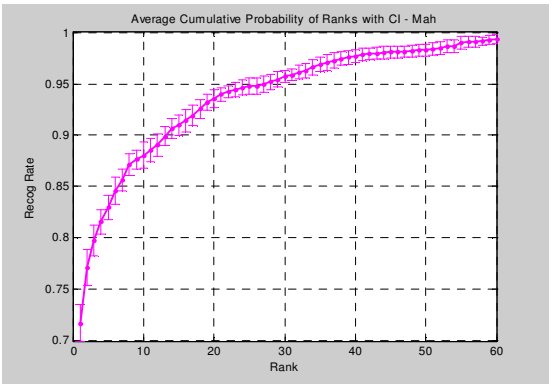


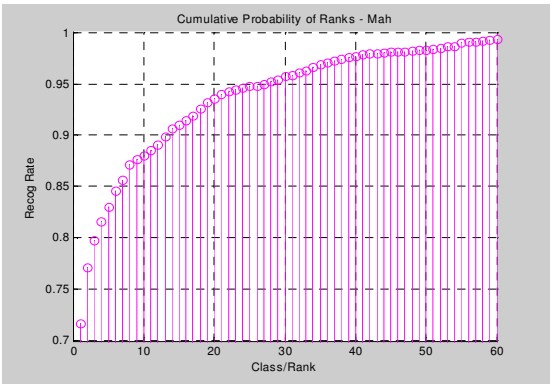


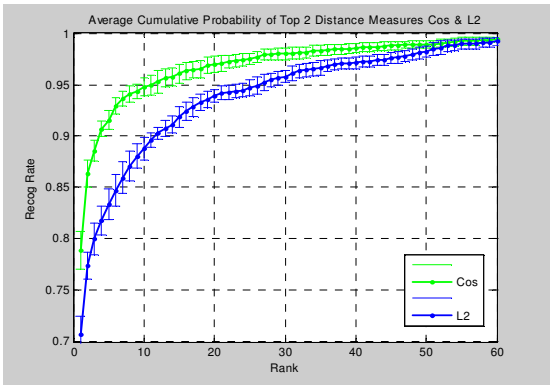




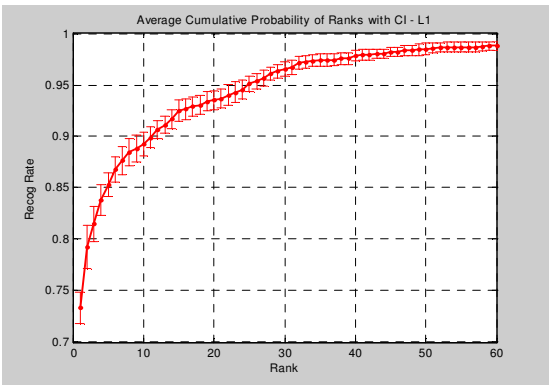


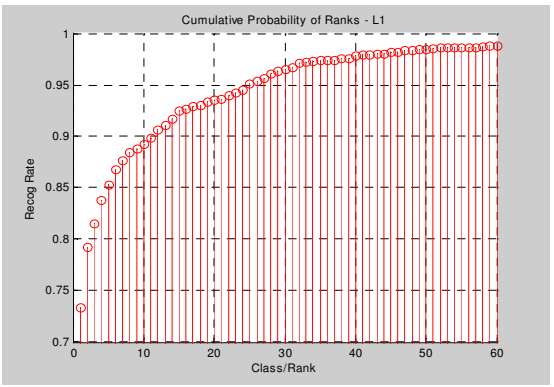


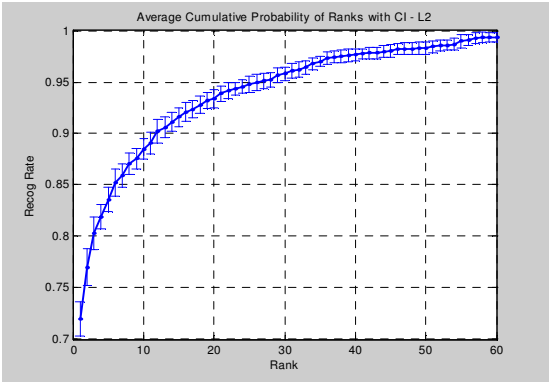


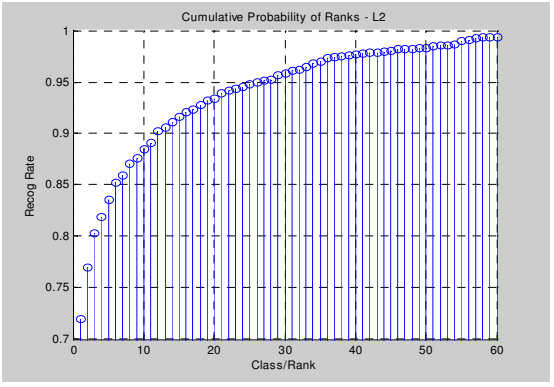


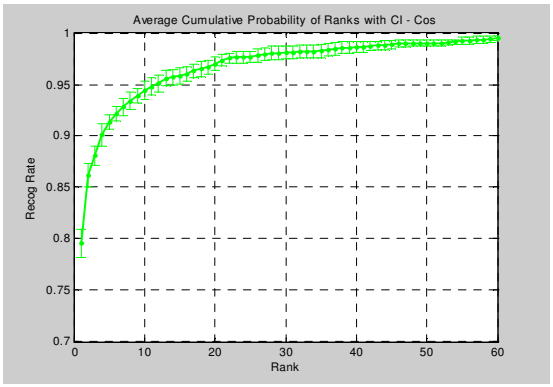
FastICA Architecture I

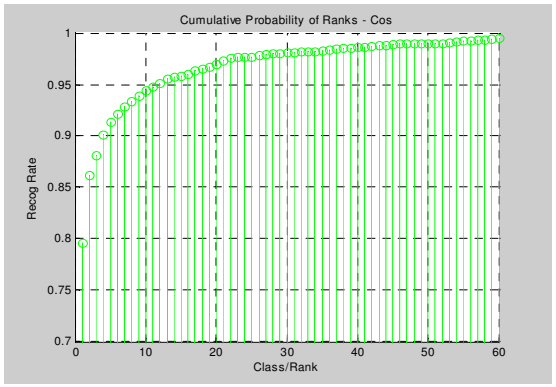


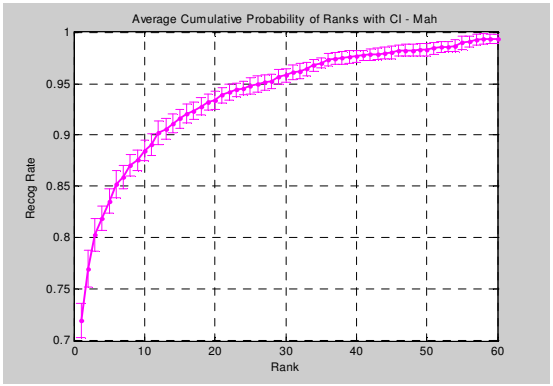


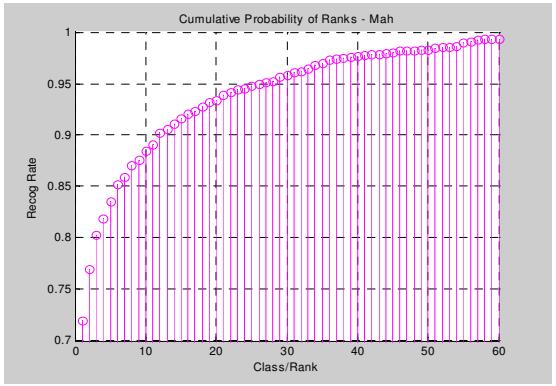


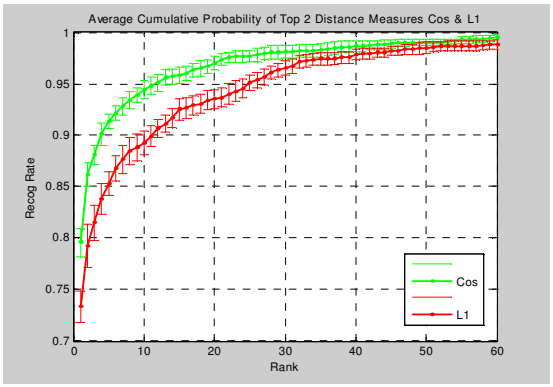




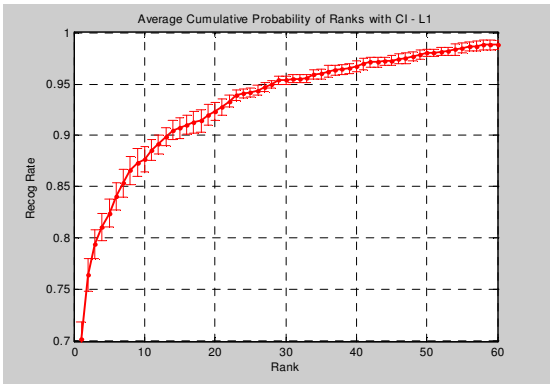


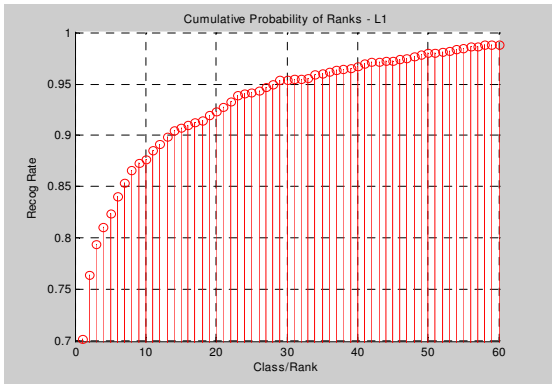


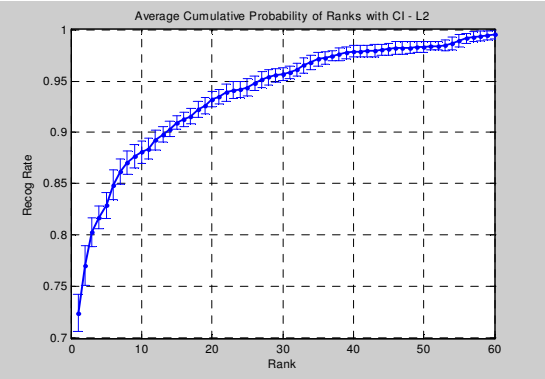


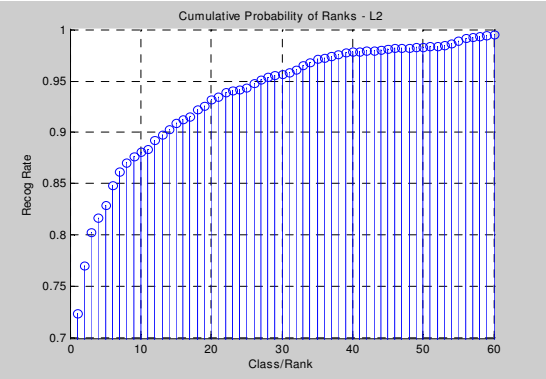


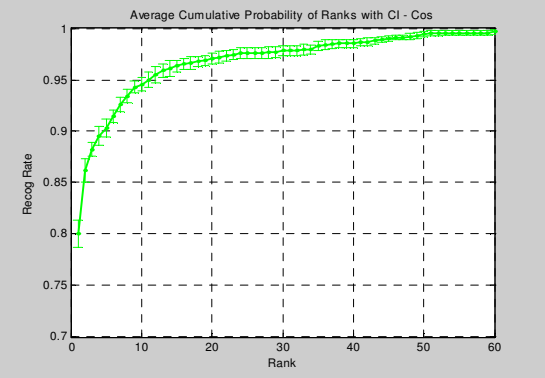
FastICA Architecture II

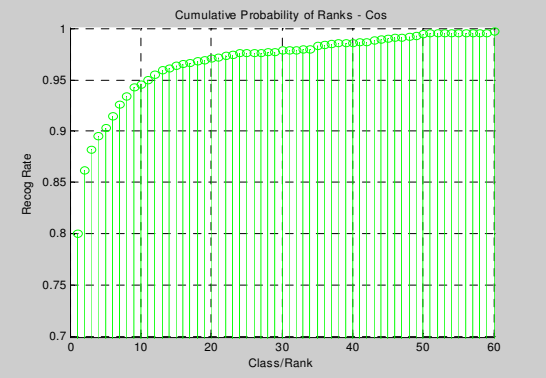


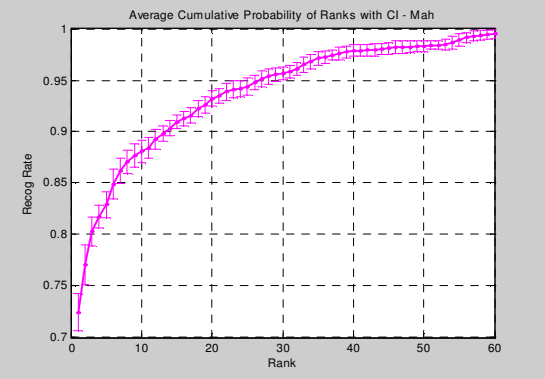


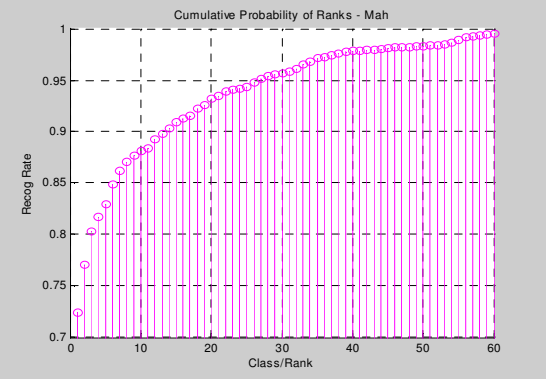

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

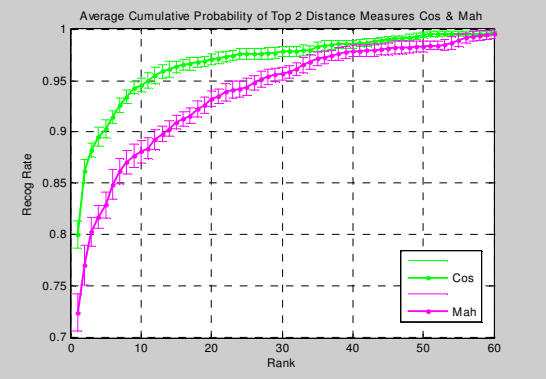

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

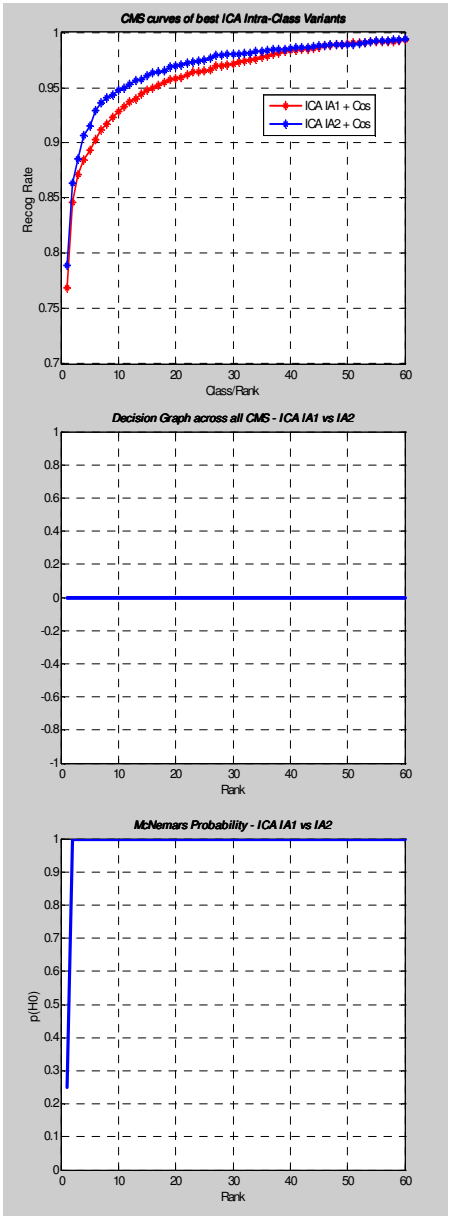

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

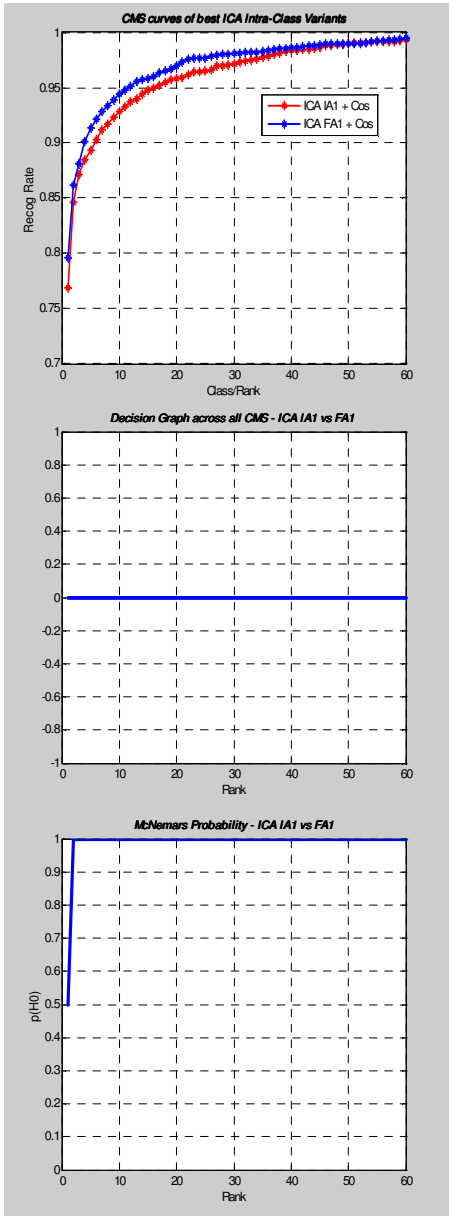

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

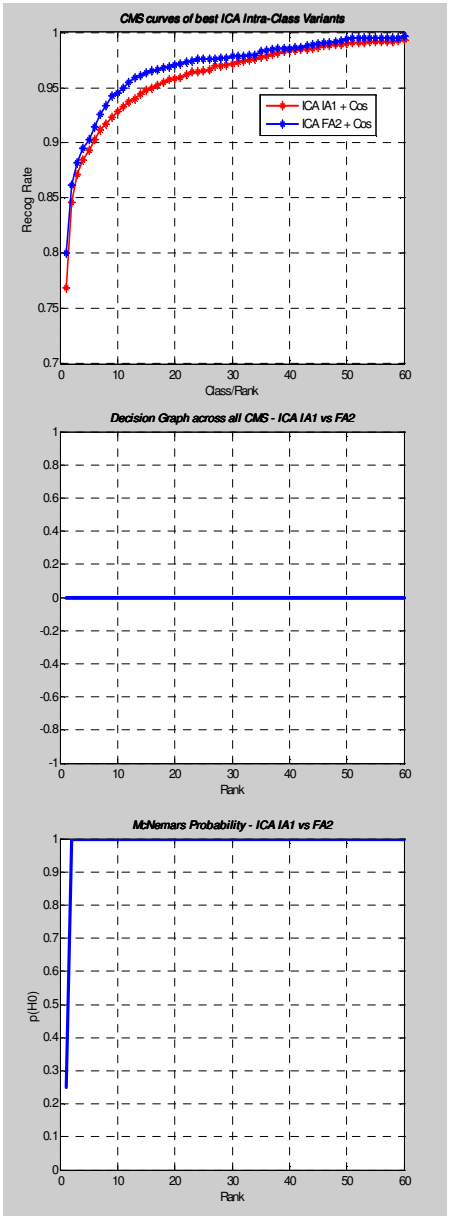

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

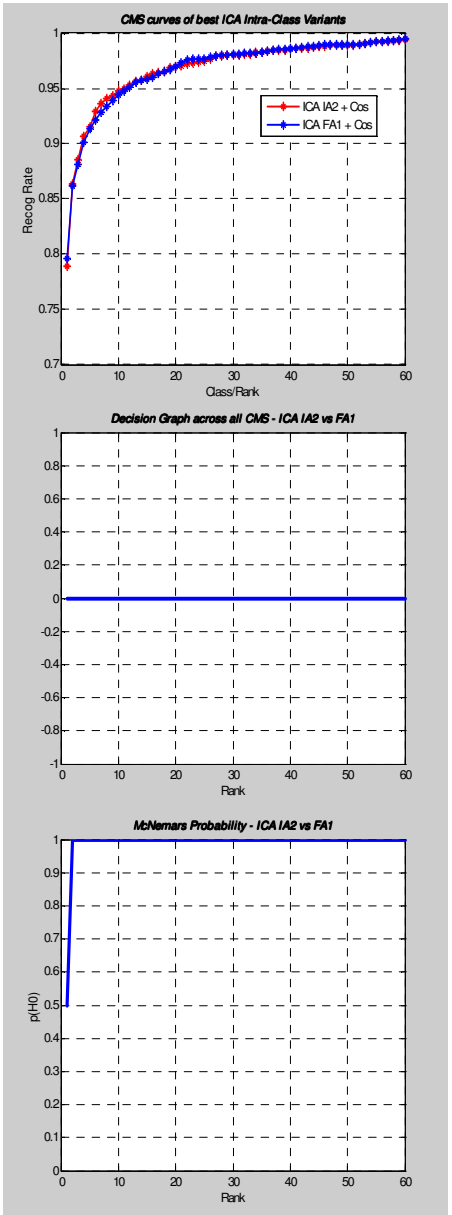

Average Cumulative Probability of Top 2 Distance Measures Cos & Mah
Recog Rate
Rank
Cos
Mah

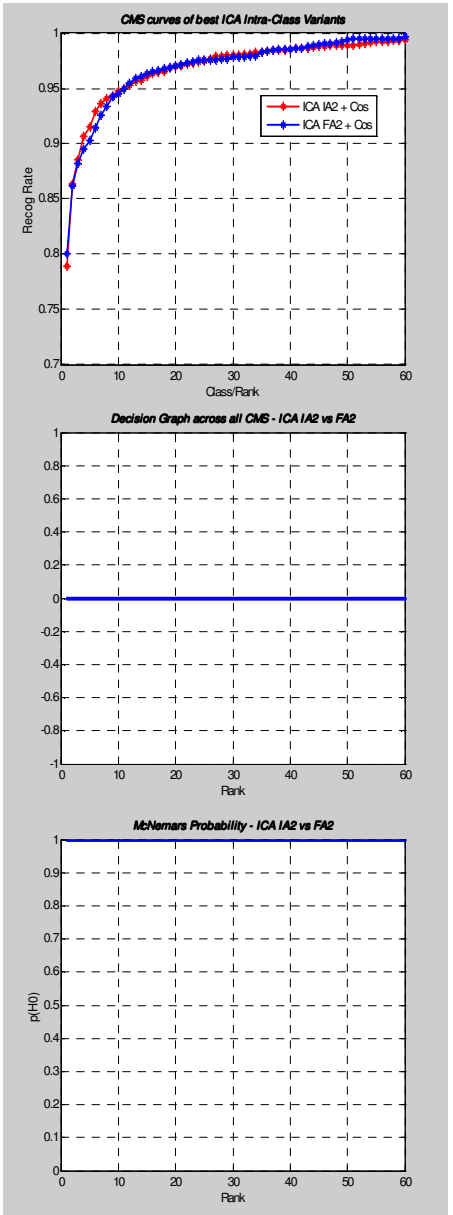
McNemar's Testing for the ICA class in category of Expression

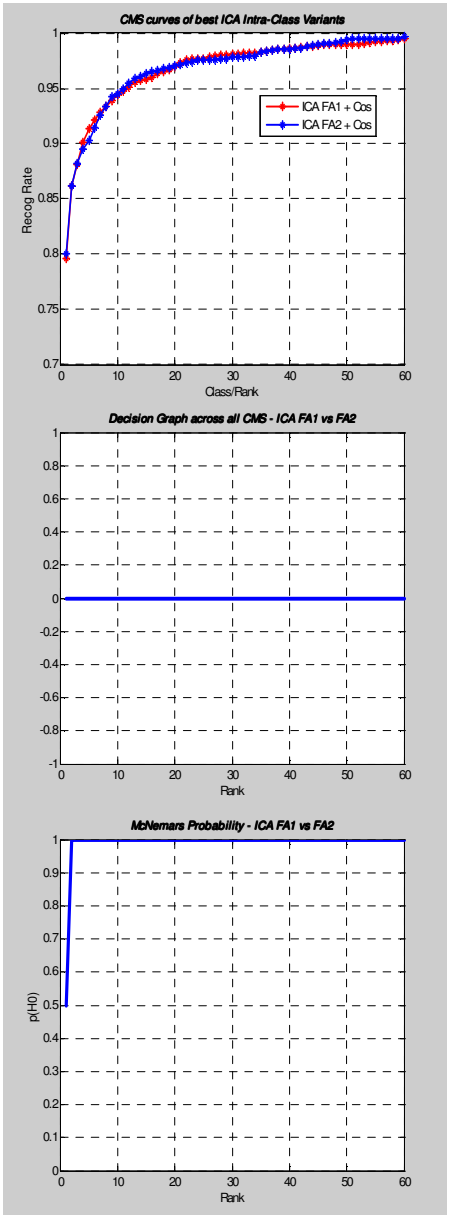







CMS curves of best ICA Intra-Class Variants
ICA IA2 + Cos
ICA FA1 + Cos
Recog Rate
Class/Rank
Decision Graph across all CMS - ICA IA2 vs FA1
Rank
McNemars Probability - ICA IA2 vs FA1
p(H0)
Rank


CMS curves of best ICA Intra-Class Variants
ICA IA2 + Cos
ICA FA2 + Cos
Recog Rate
Class/Rank
Decision Graph across all CMS - ICA IA2 vs FA2
Rank
McNemars Probability - ICA IA2 vs FA2
p(H0)
Rank

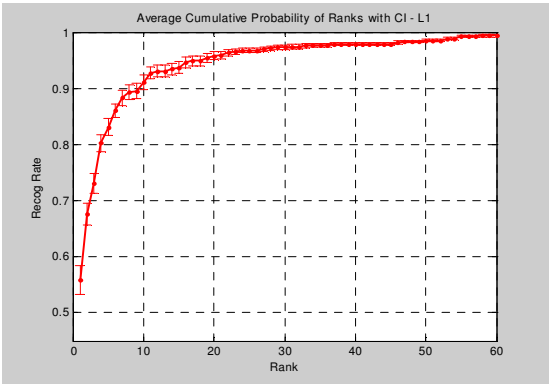

CMS curves of best ICA Intra-Class Variants
ICA FA1 + Cos
ICA FA2 + Cos
Recog Rate
Class/Rank
Decision Graph across all CMS - ICA FA1 vs FA2
Rank
McNemars Probability - ICA FA1 vs FA2
p(H0)
Rank

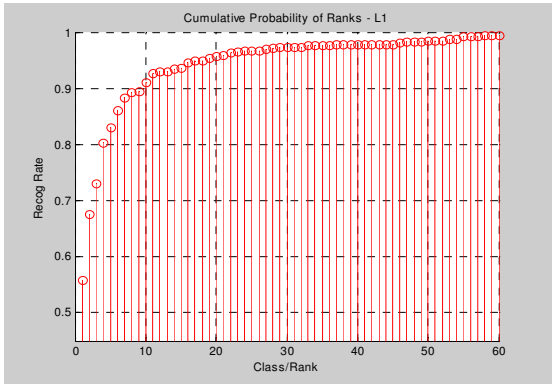
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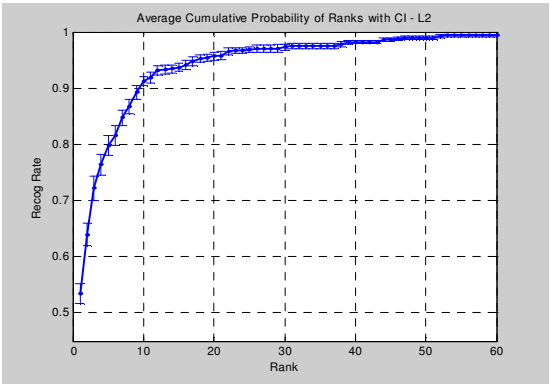
PCA

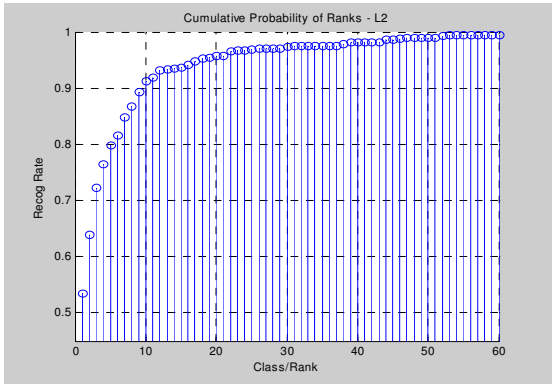
Confidence Interval & Stem plots

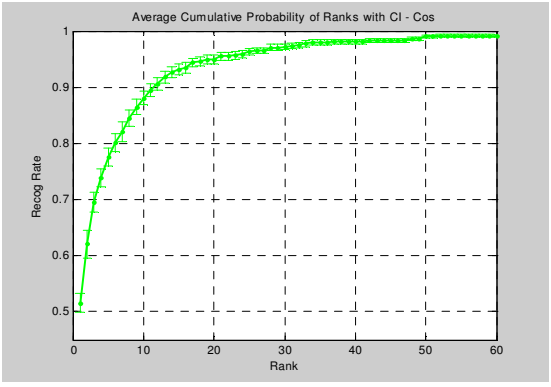
Linear

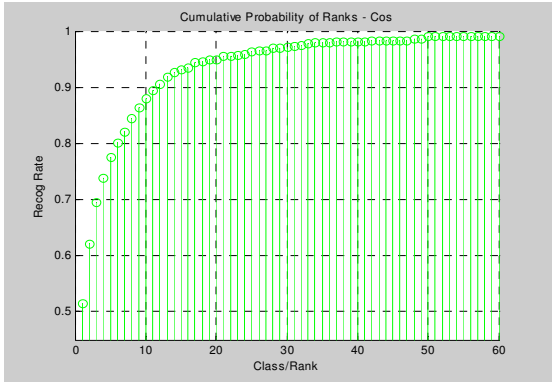


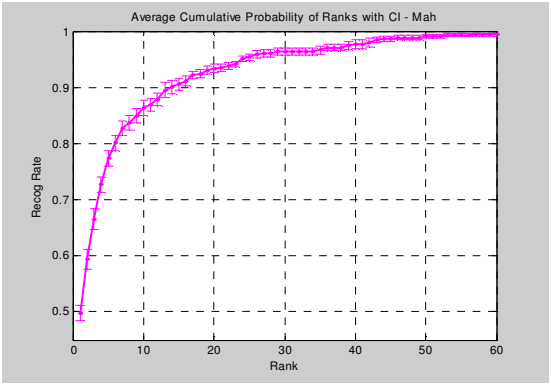


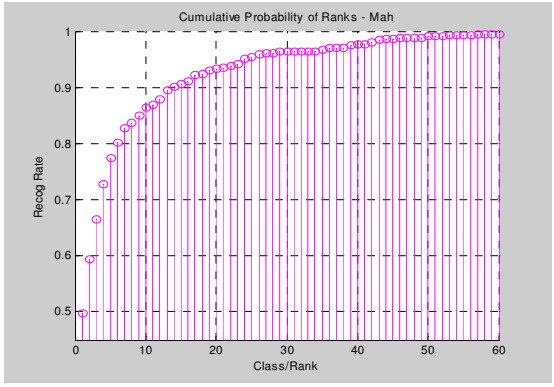


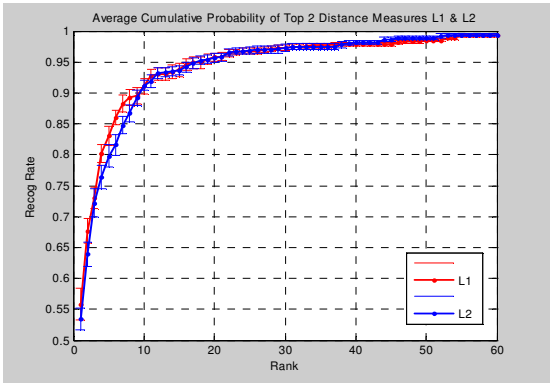




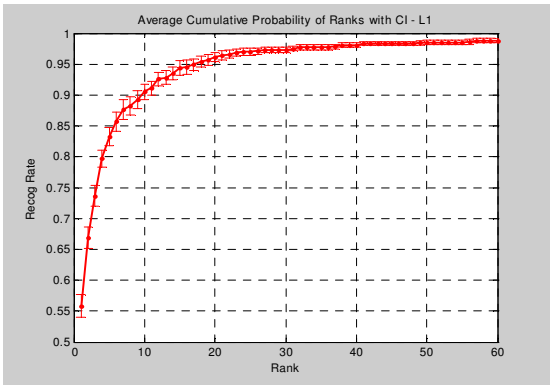


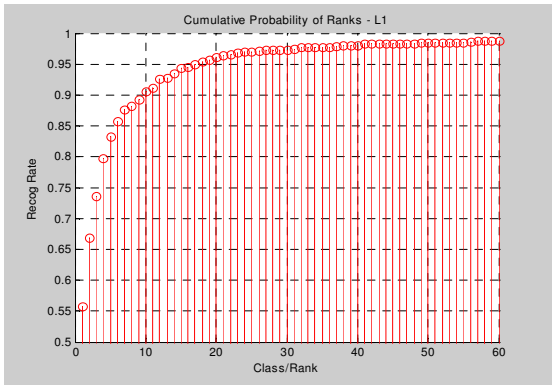


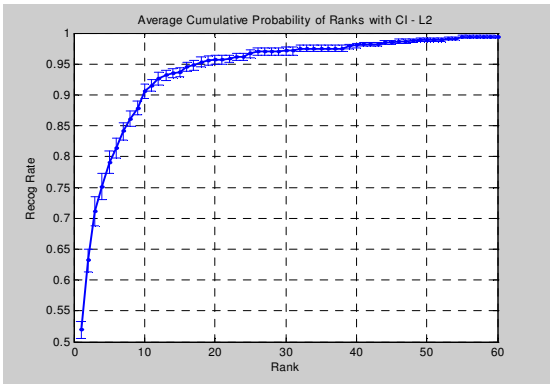


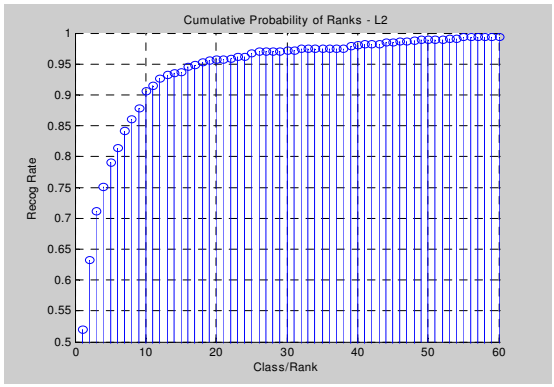

Average Cumulative Probability of Top 2 Distance Measures L1 & L2
Recog Rate
Rank
L1
L2

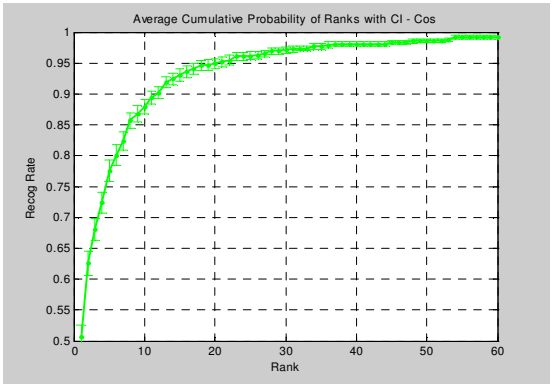
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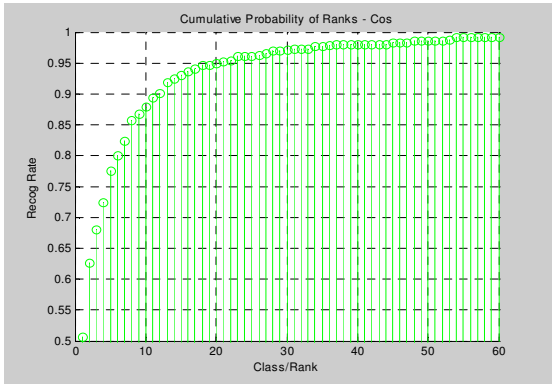

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

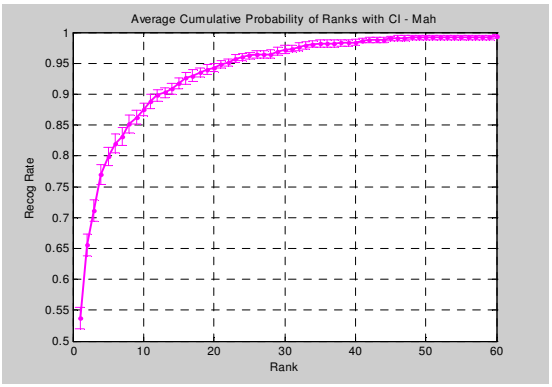

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

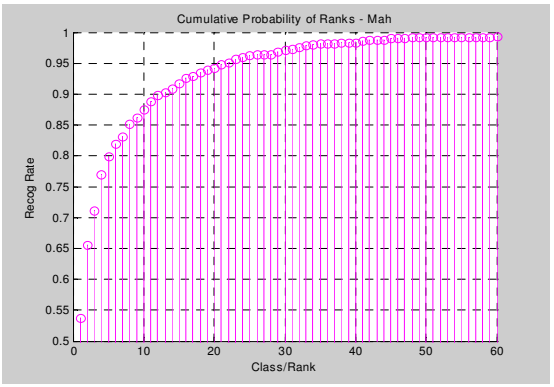

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

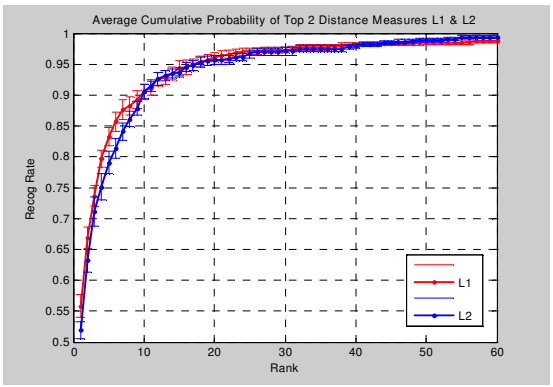

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

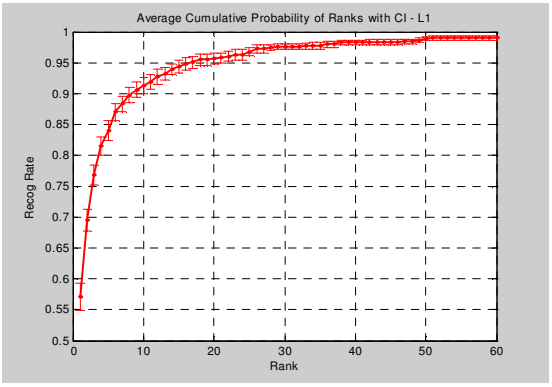

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

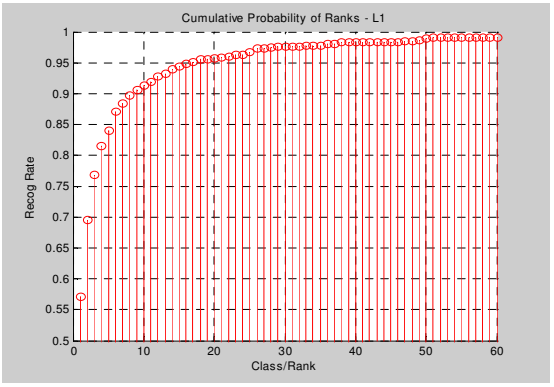

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

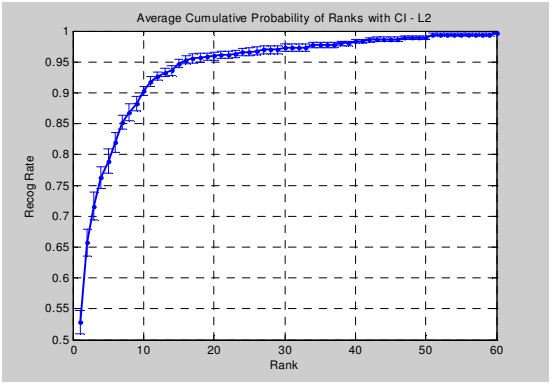

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

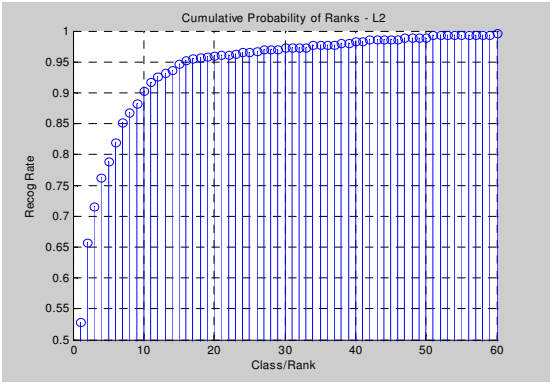

Average Cumulative Probability of Top 2 Distance Measures L1 & L2
Recog Rate
Rank
L1
L2

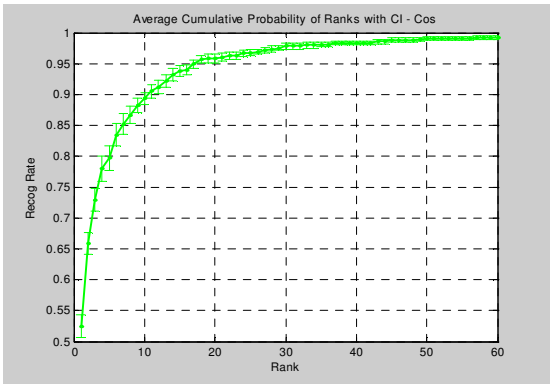
Polynomial

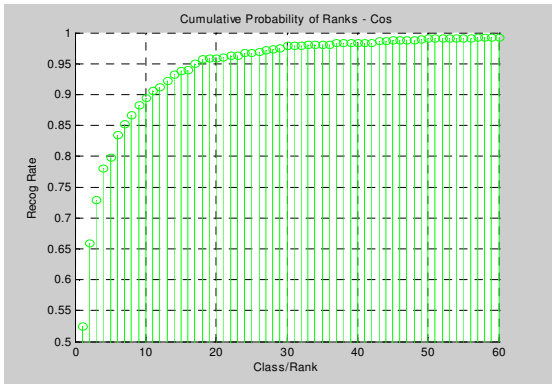

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

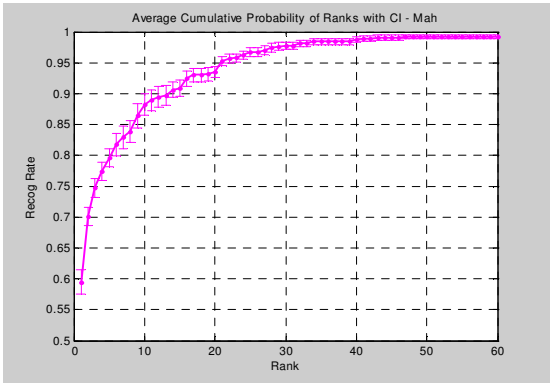

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

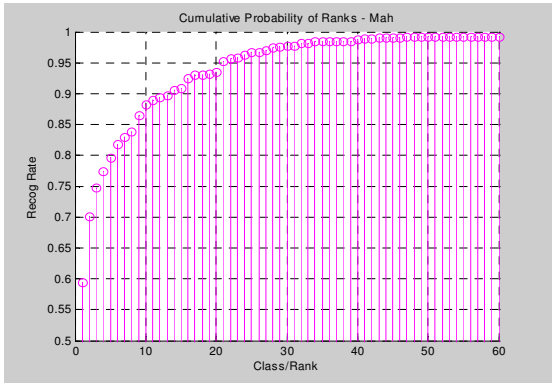

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

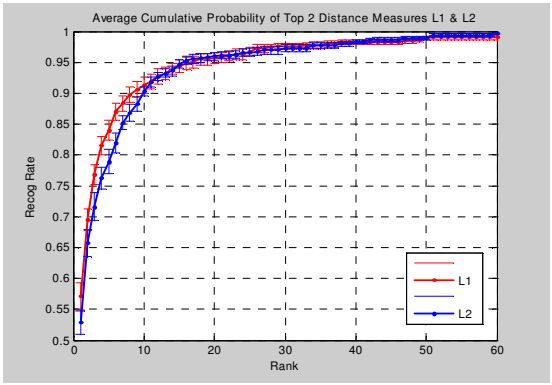

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

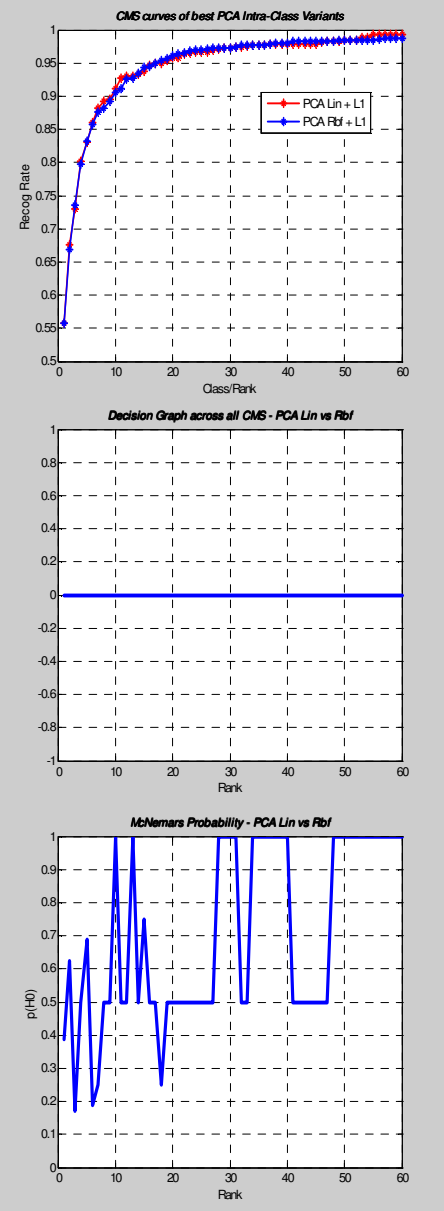

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

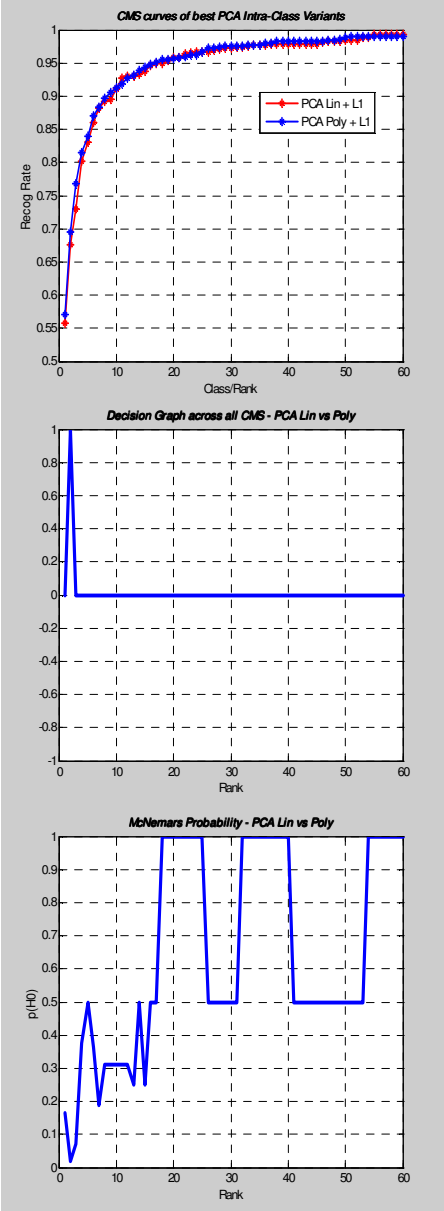

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

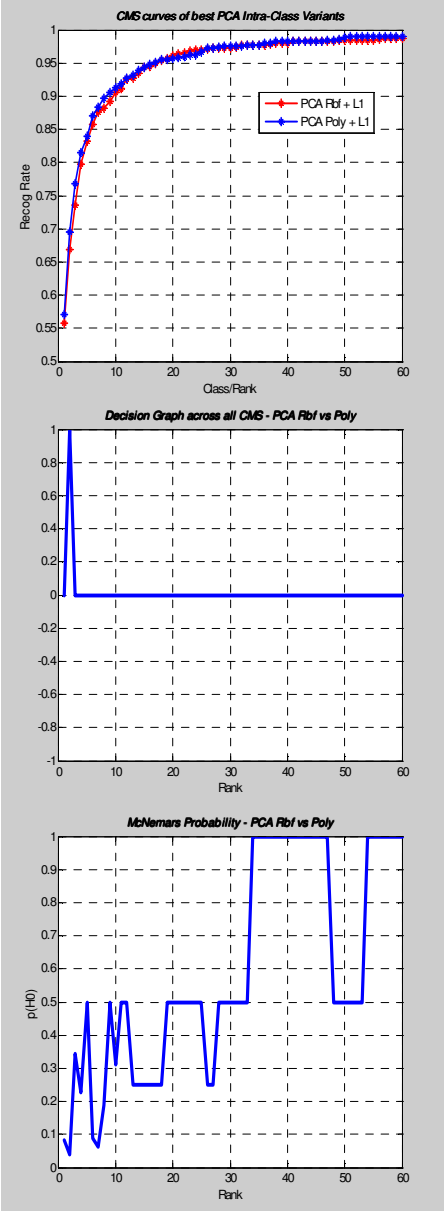

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank


Average Cumulative Probability of Top 2 Distance Measures L1 & L2
Recog Rate
Rank
L1
L2

McNemar's Testing for the PCA class in category of Illumination



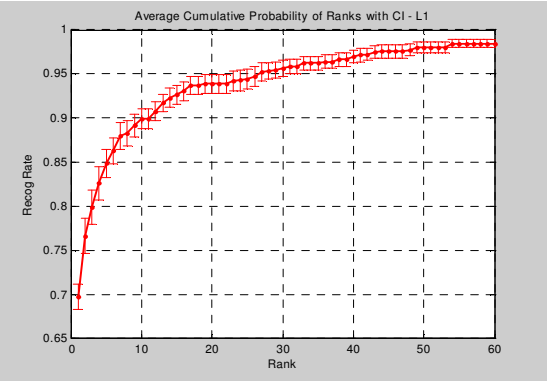


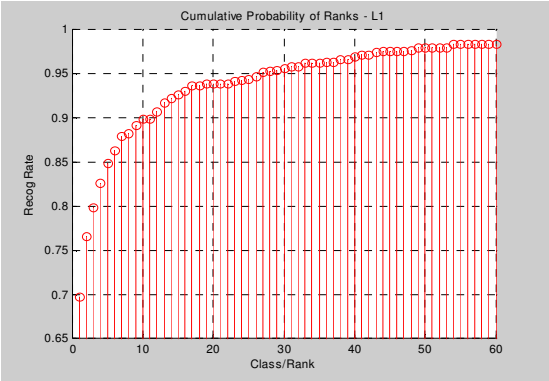


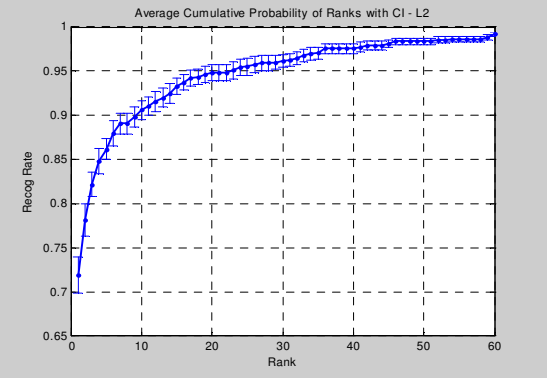
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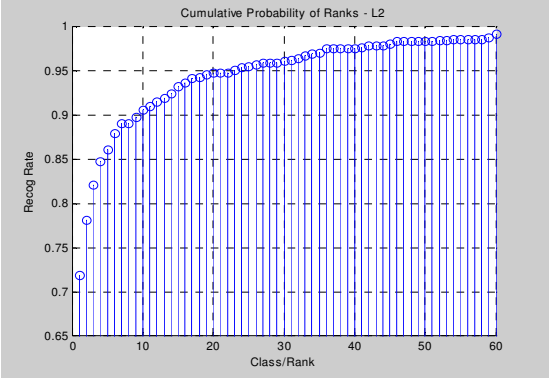
Confidence Interval & Stem plots

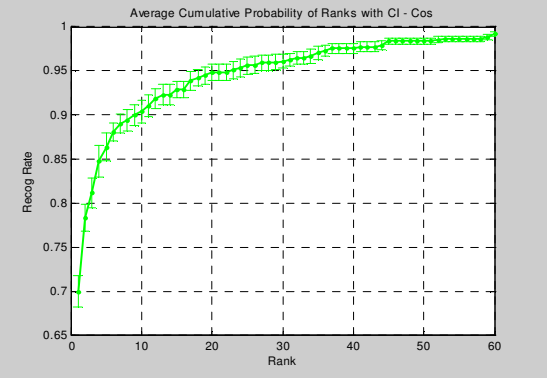
Linear

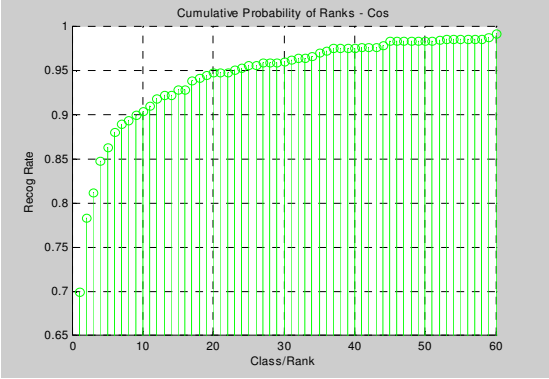


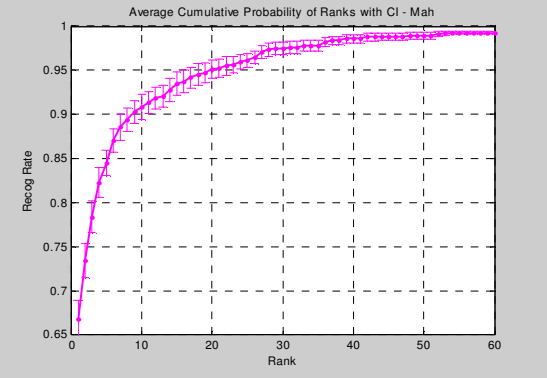


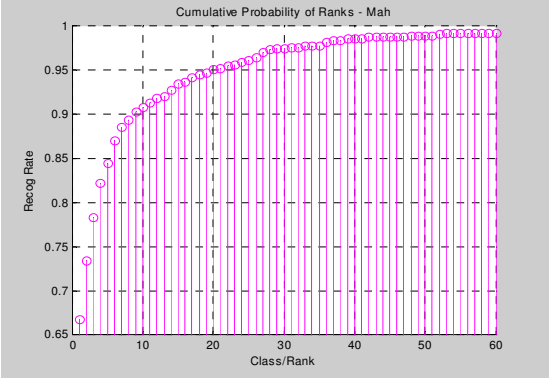


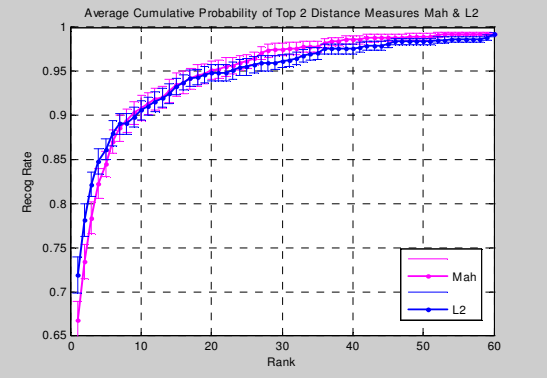




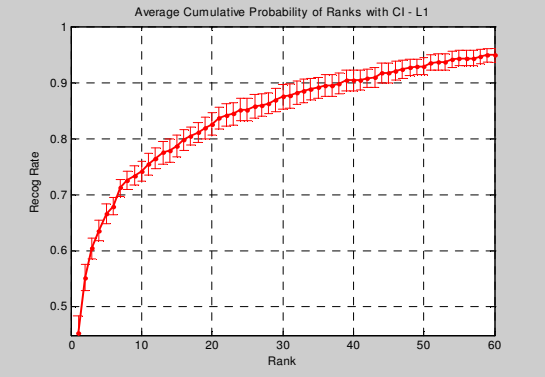


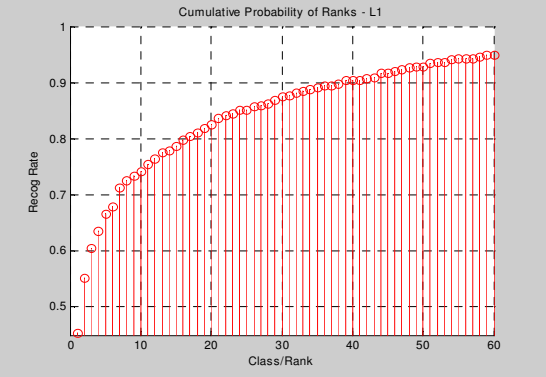


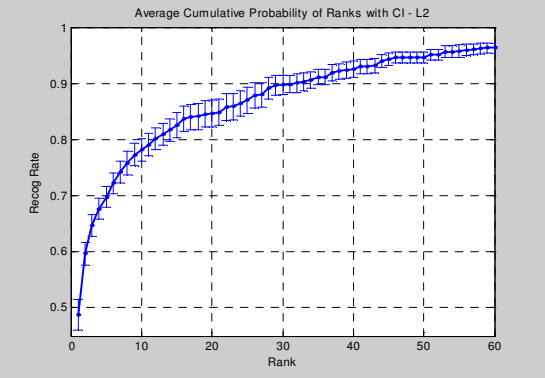


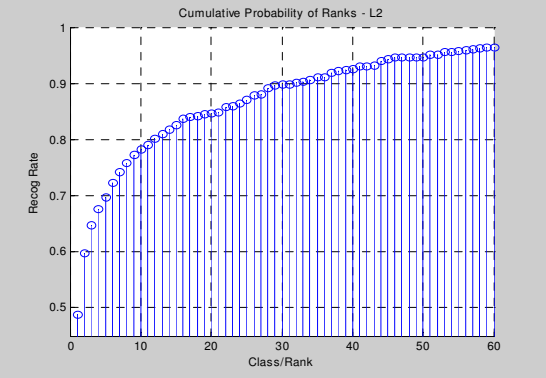

Average Cumulative Probability of Top 2 Distance Measures Mah & L2
Recog Rate
Rank
Mah
L2

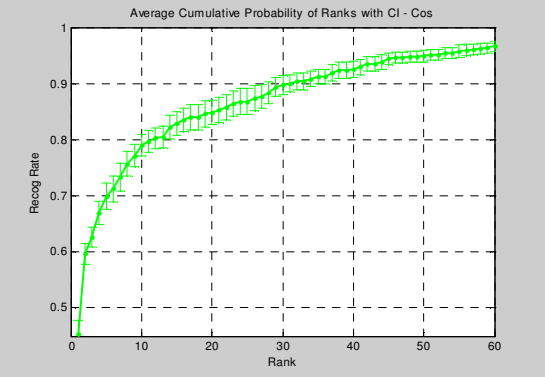
RBF

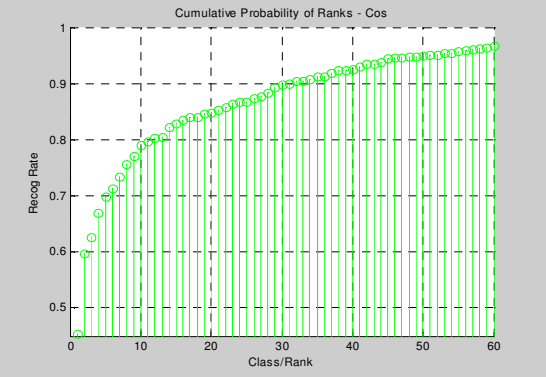

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

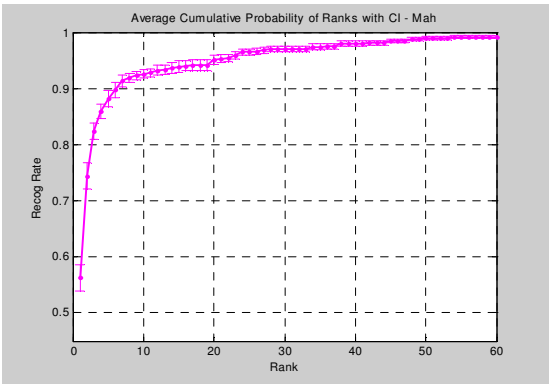

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

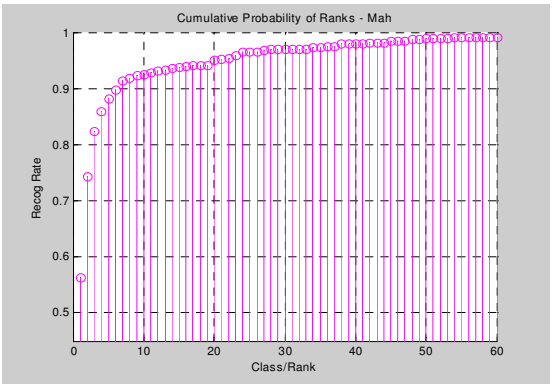

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

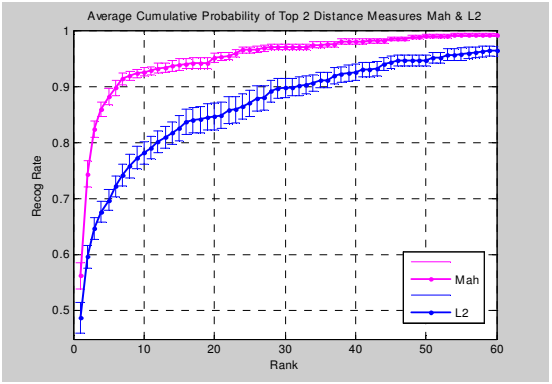

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

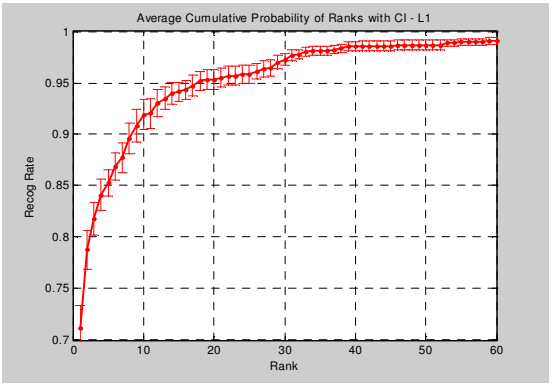

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

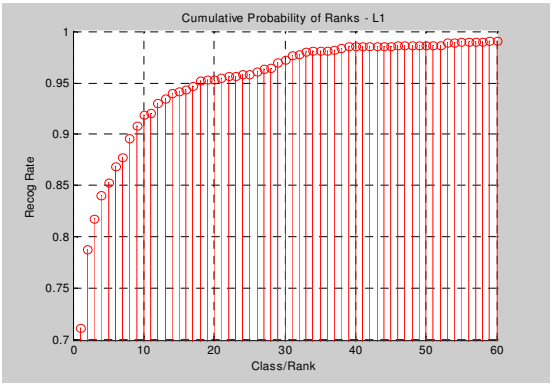

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

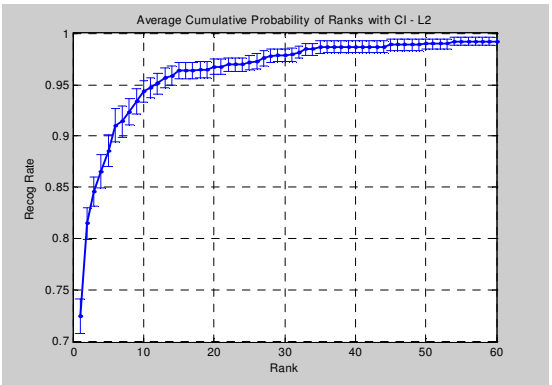

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

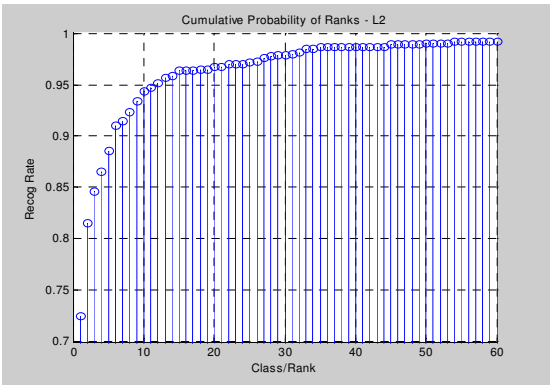

Average Cumulative Probability of Top 2 Distance Measures Mah & L2
Recog Rate
Rank
Mah
L2

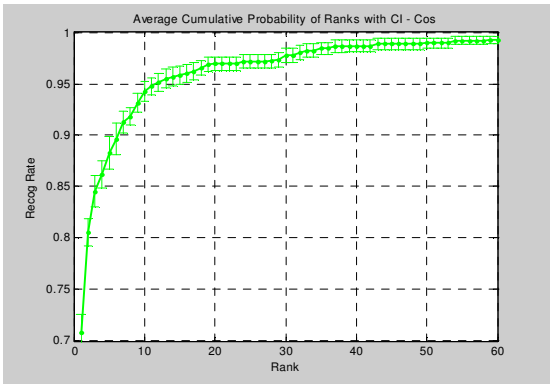
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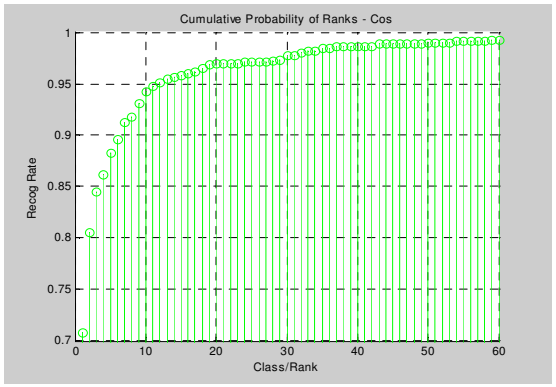

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

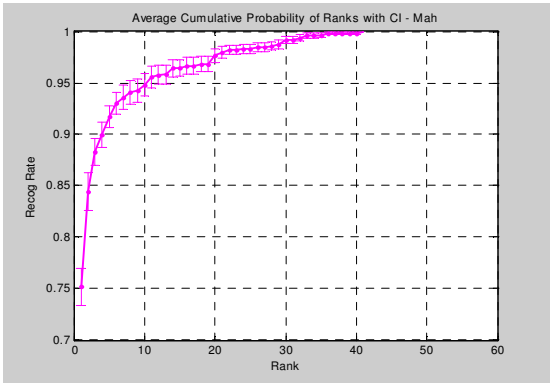

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

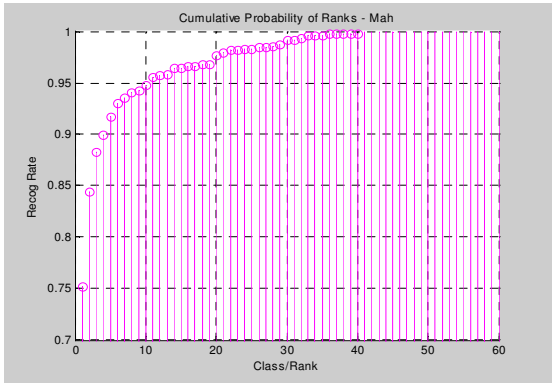

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

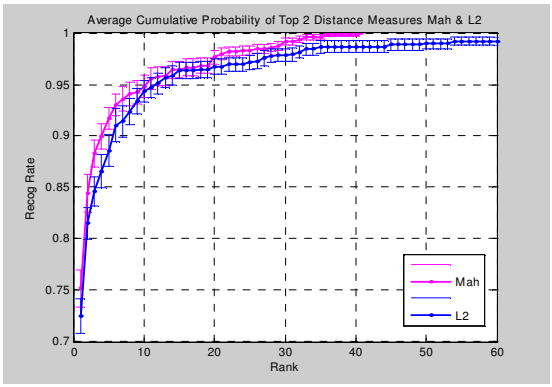

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

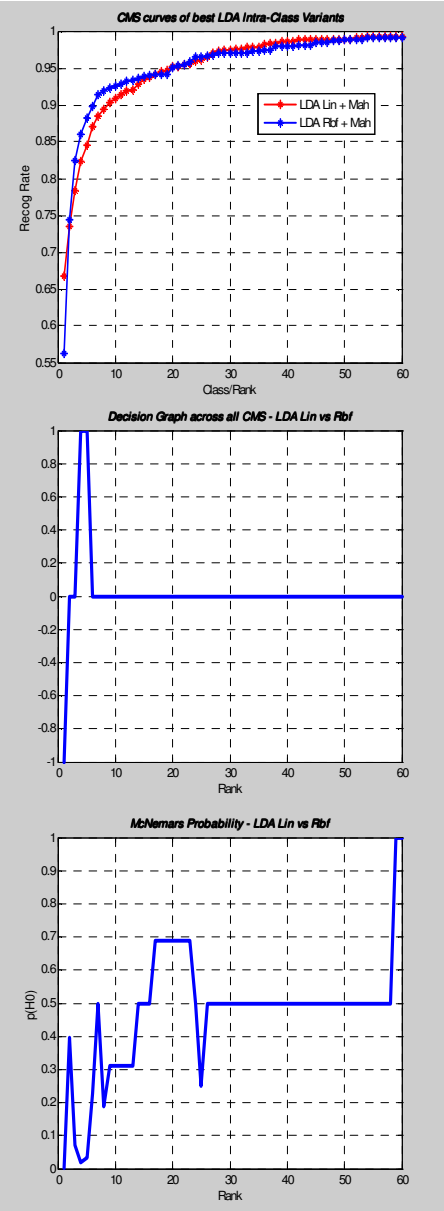

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

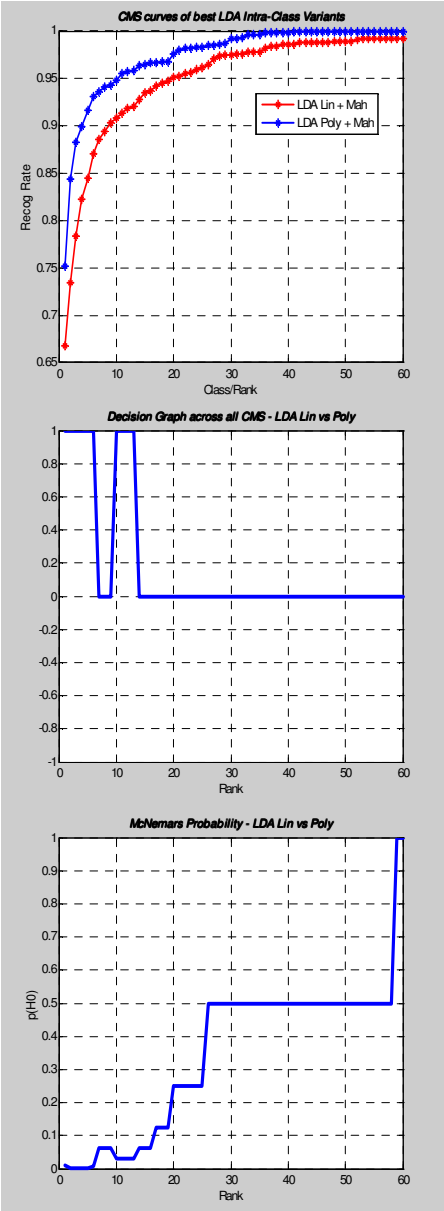

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

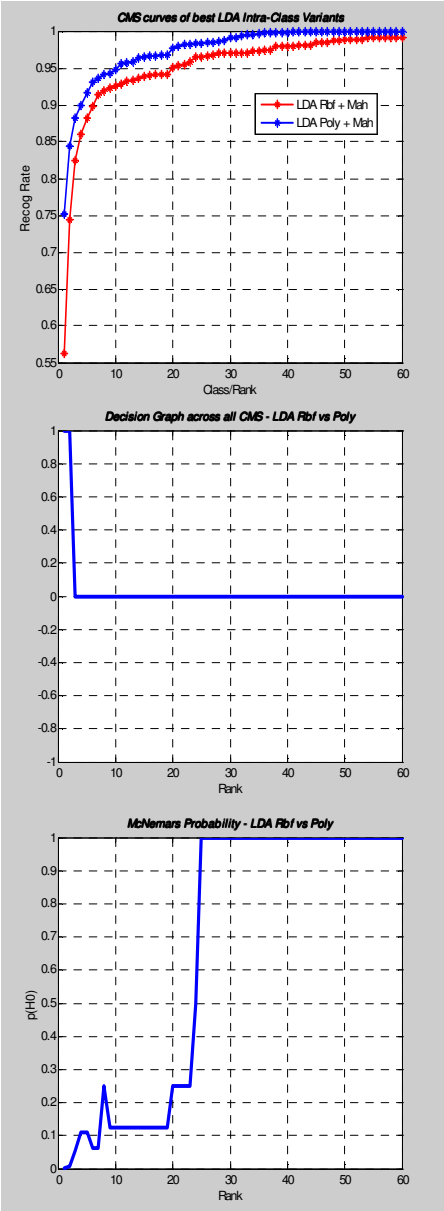

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank


Average Cumulative Probability of Top 2 Distance Measures Mah & L2
Recog Rate
Rank
Mah
L2

McNemar's Testing for the LDA class in category of Illumination



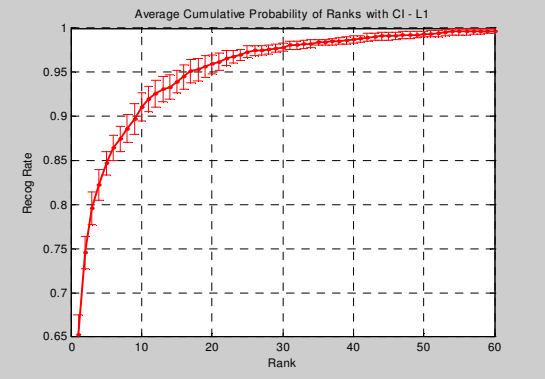


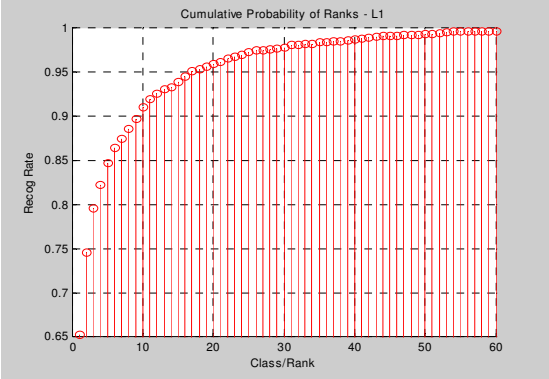


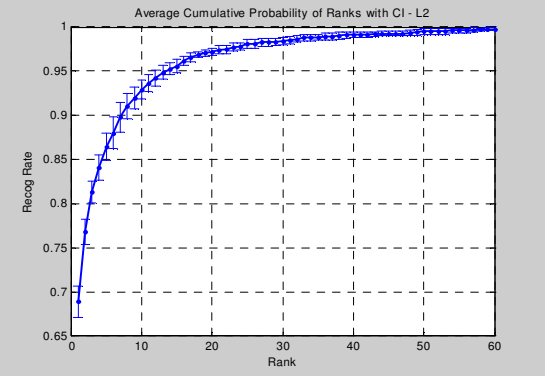
ICA

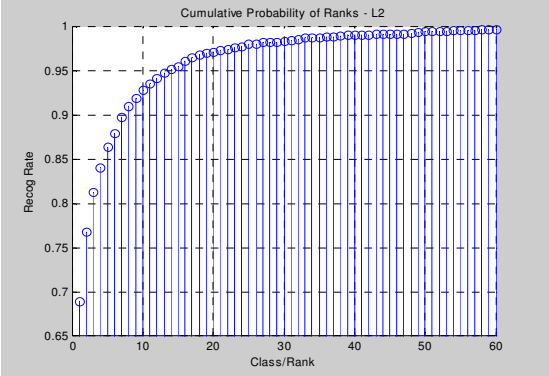
Confidence Interval & Stem plots

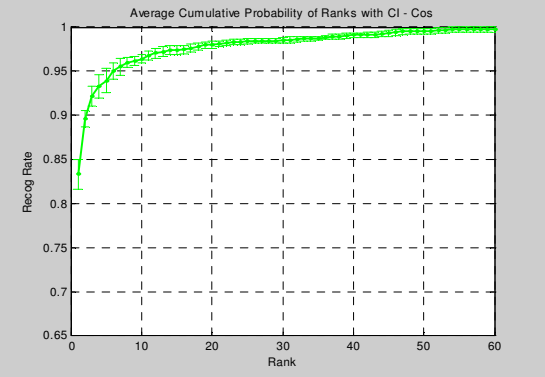
InfoMax Architecture I

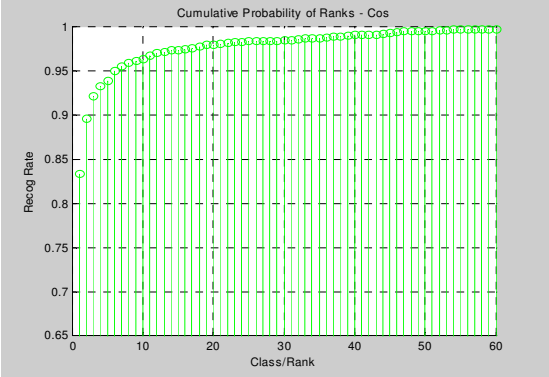


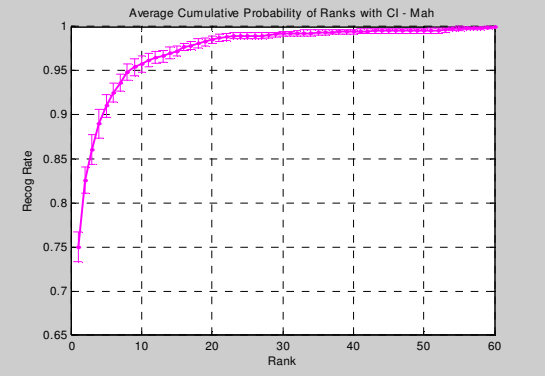


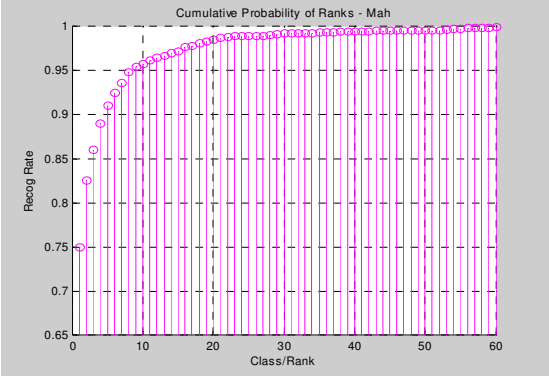


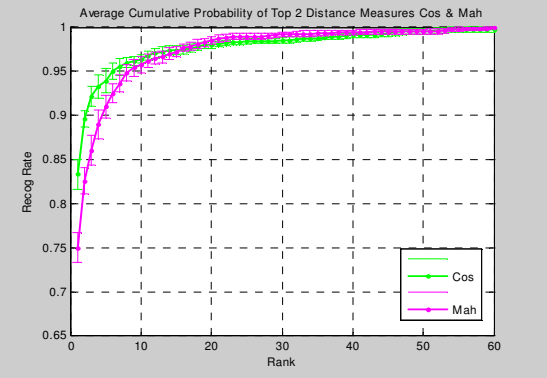




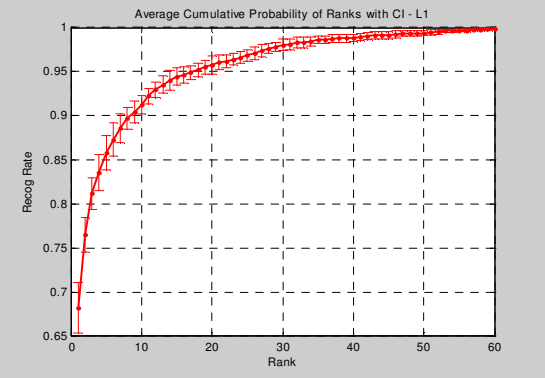


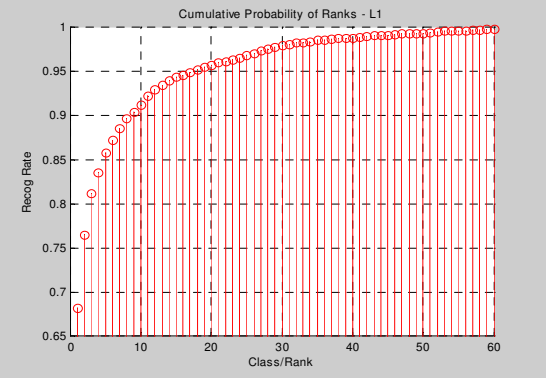


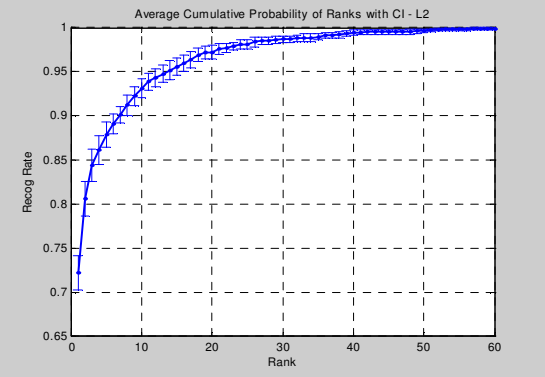


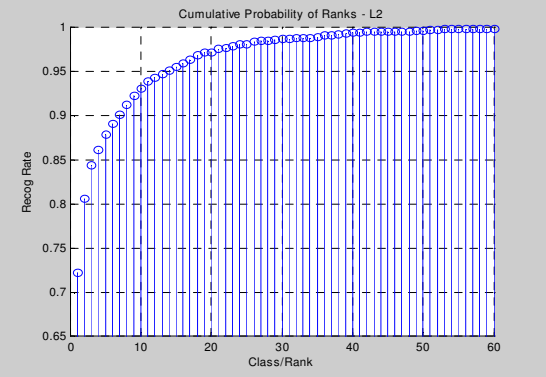


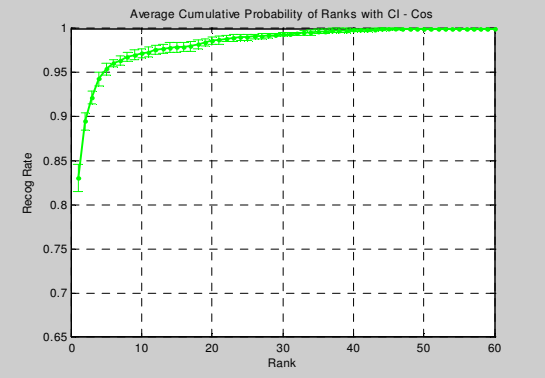
InfoMax Architecture II

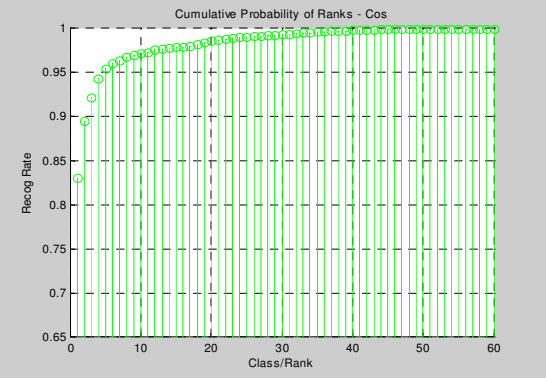


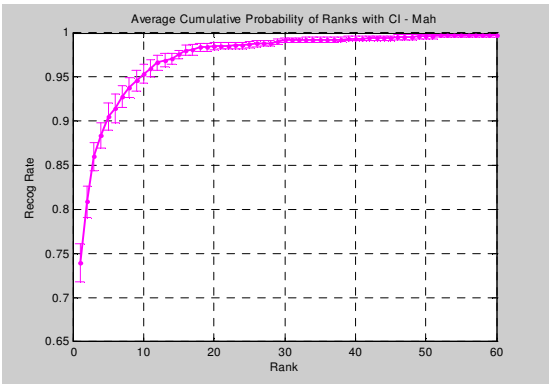


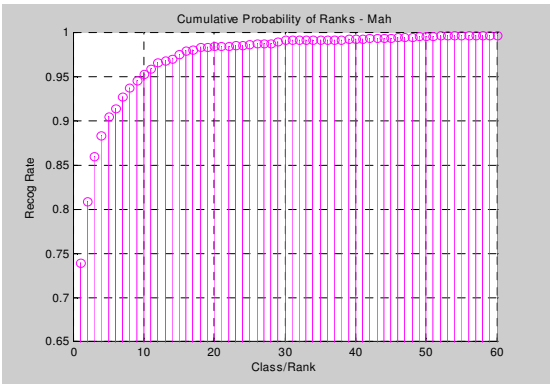


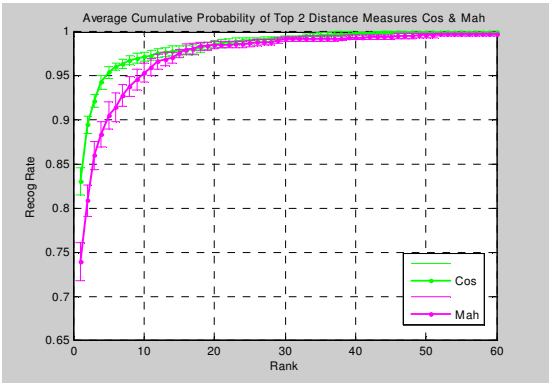




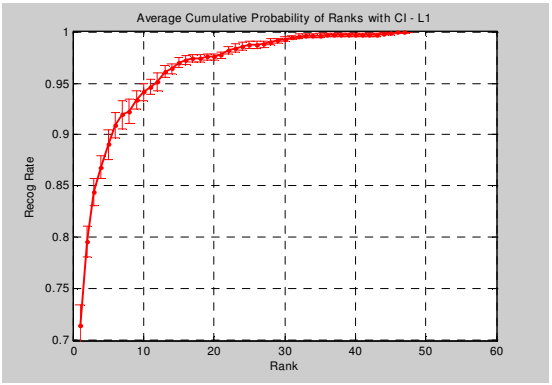


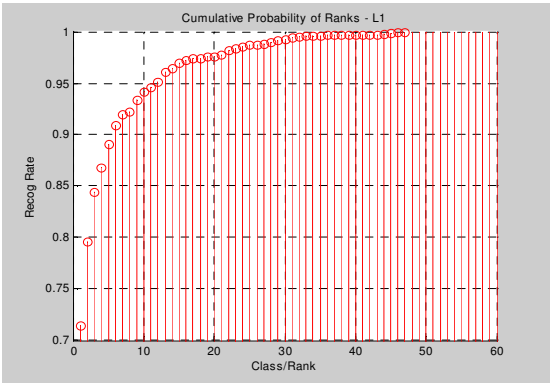


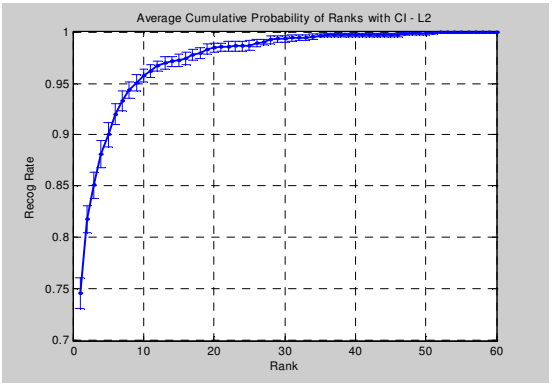


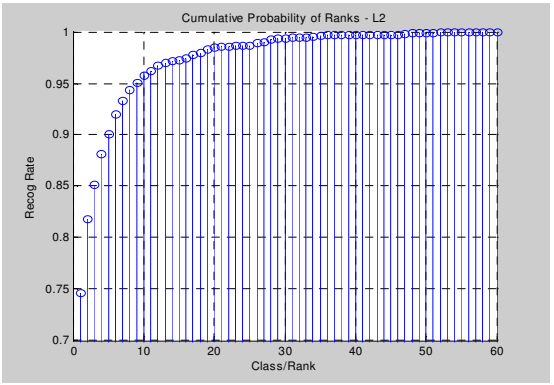


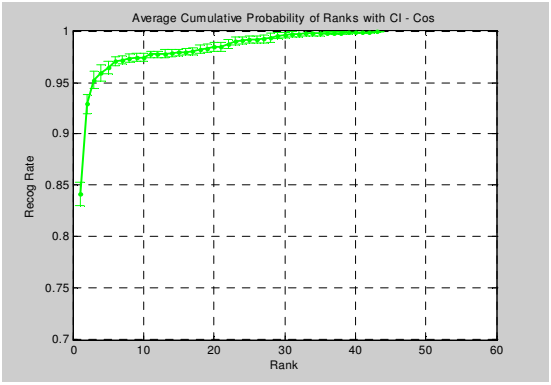
FastICA Architecture I

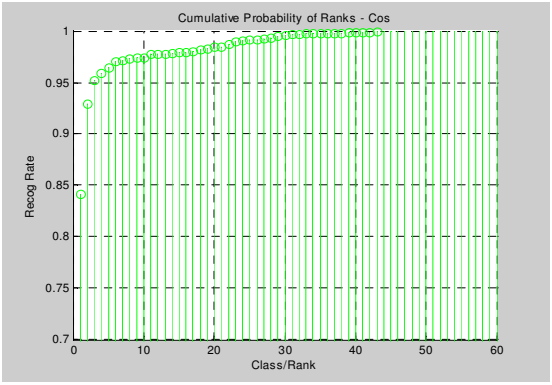


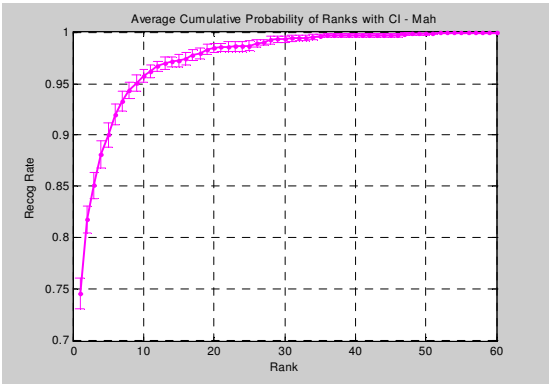


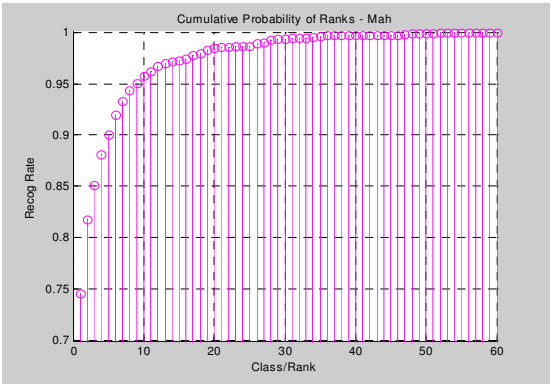


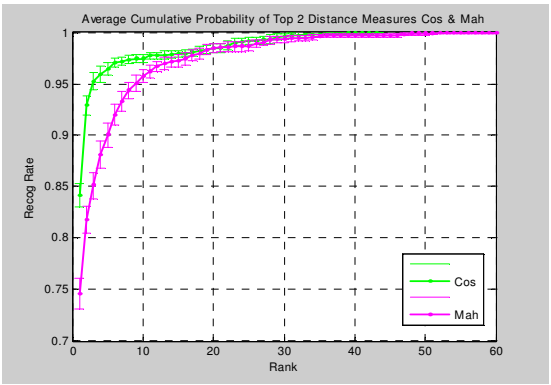




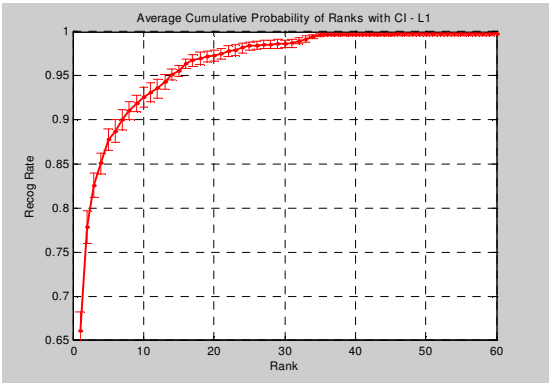


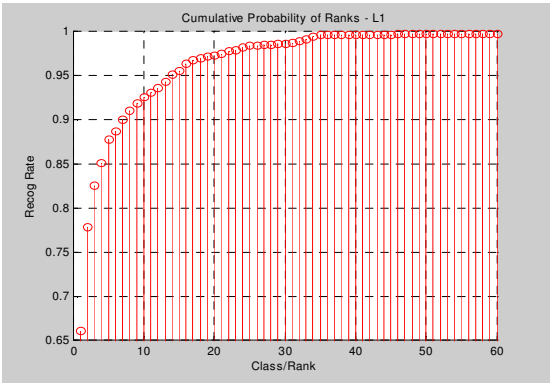


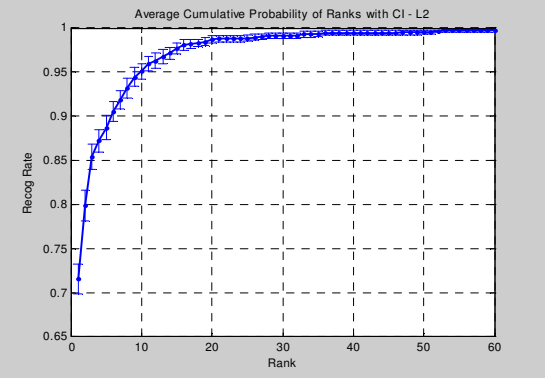


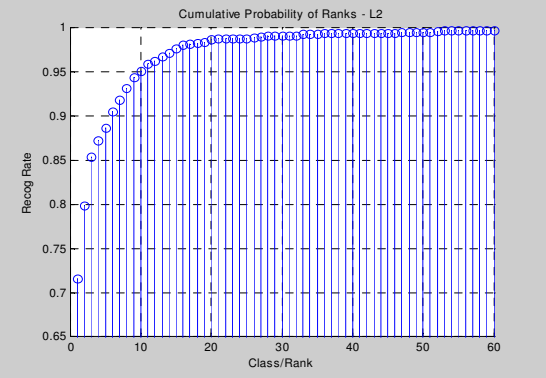


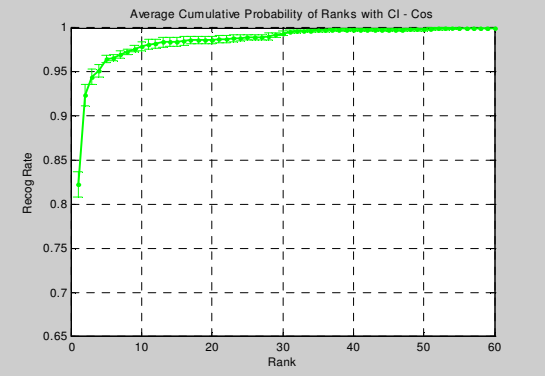
FastICA Architecture II

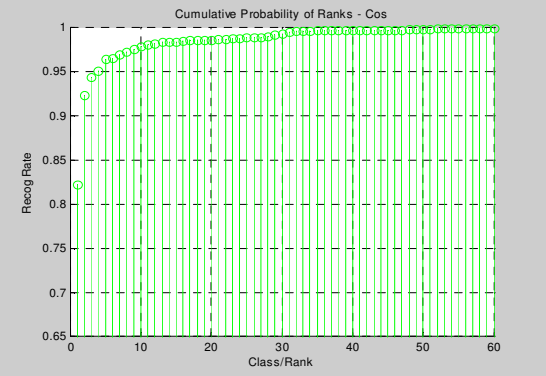


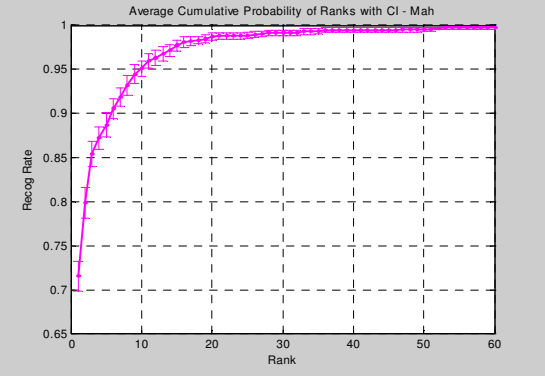


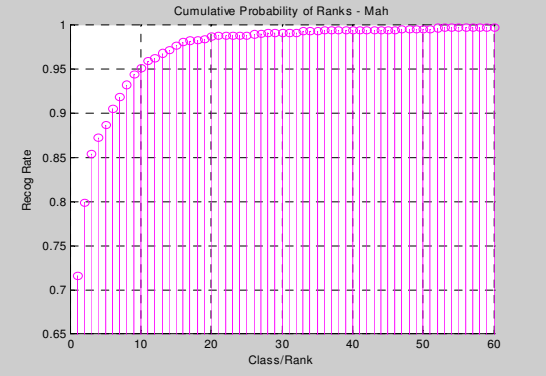

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

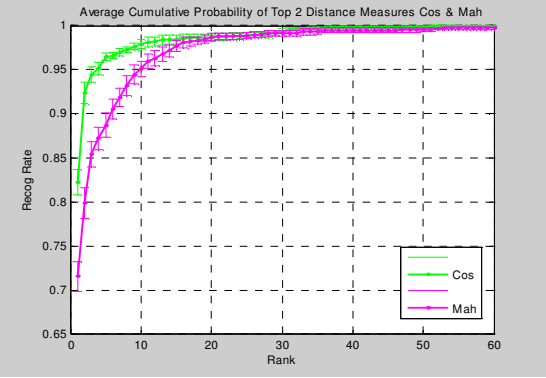

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

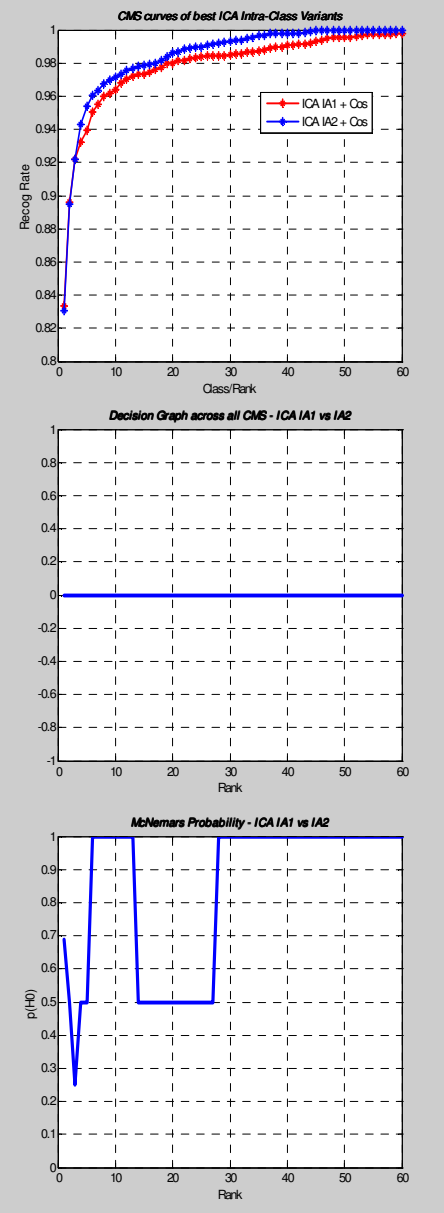

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

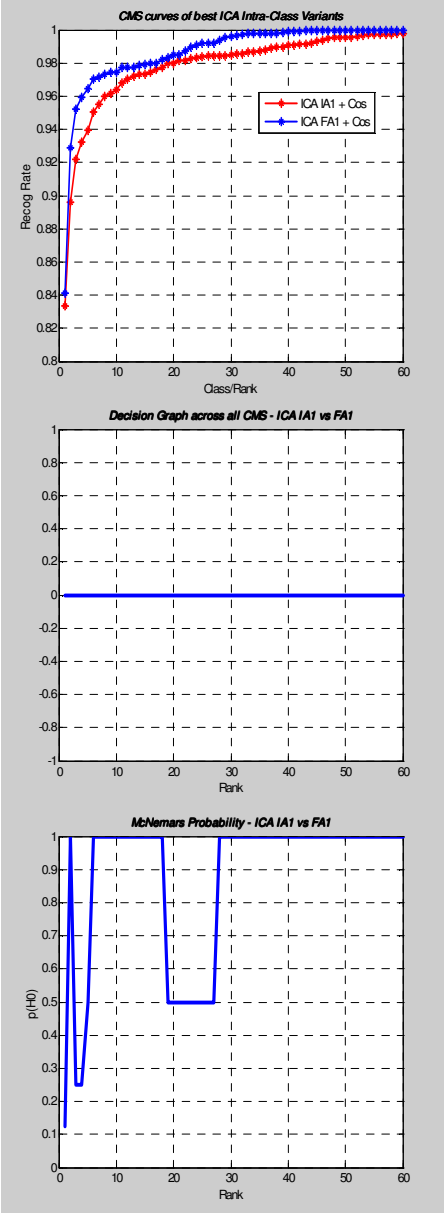

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

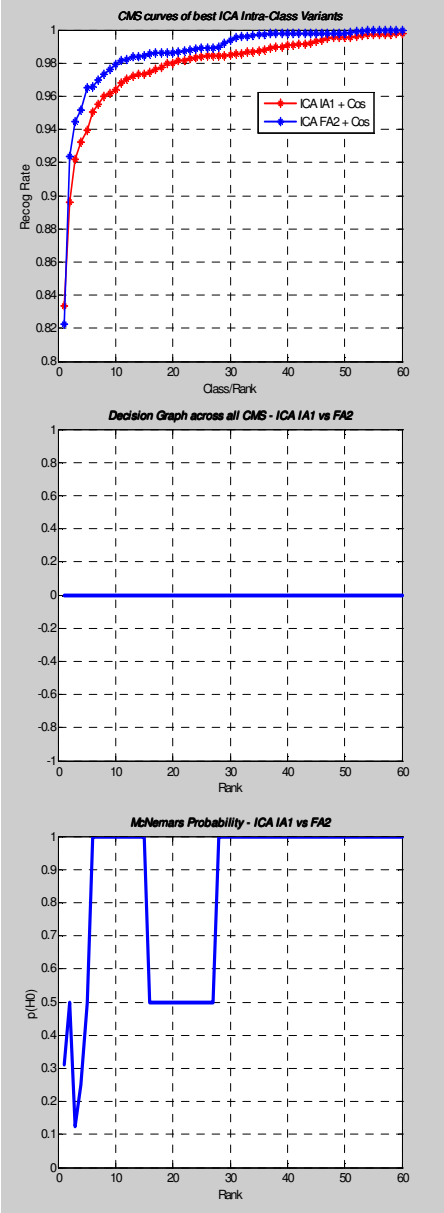

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

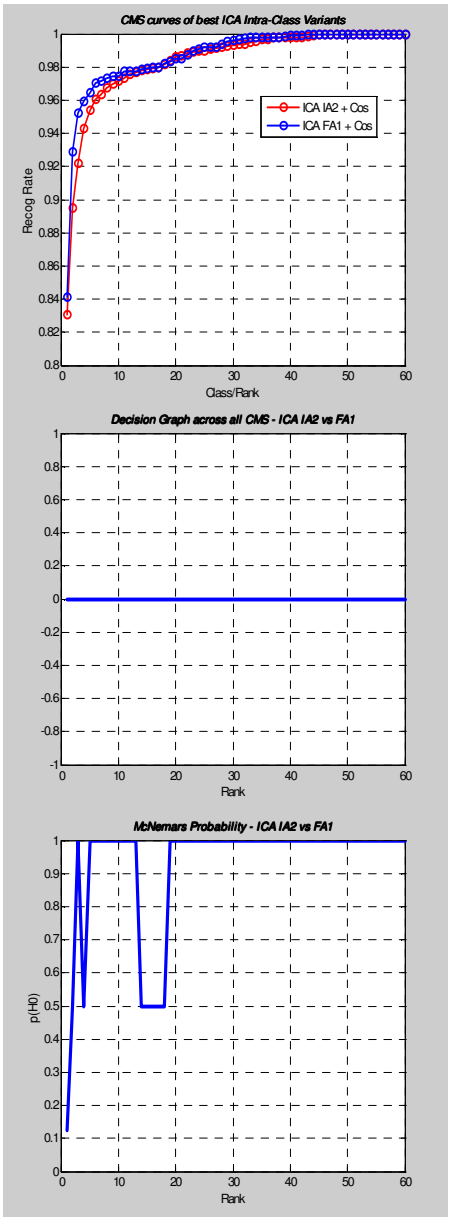

Average Cumulative Probability of Top 2 Distance Measures Cos & Mah
Recog Rate
Rank
Cos
Mah

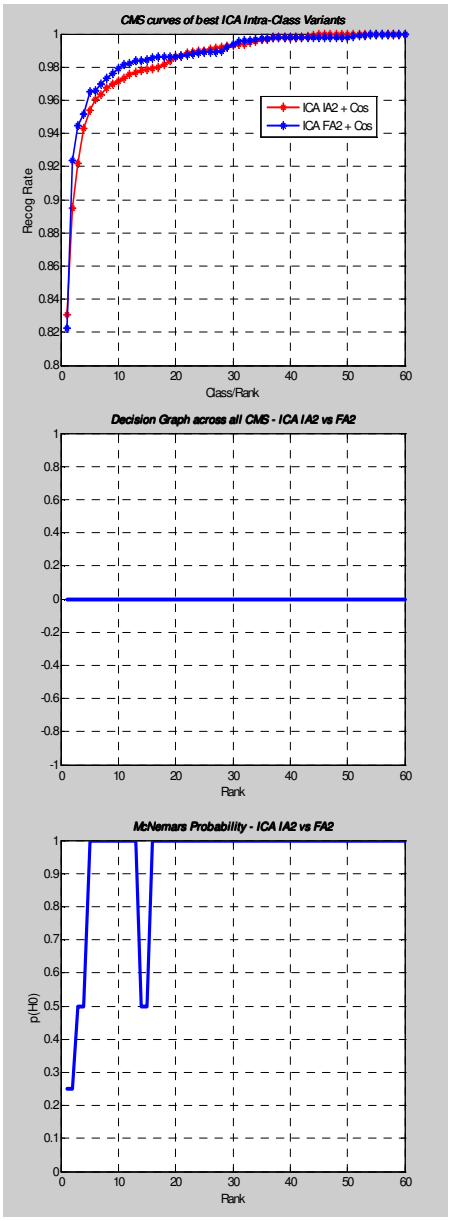
McNemar's Testing for the ICA class in category of Illumination

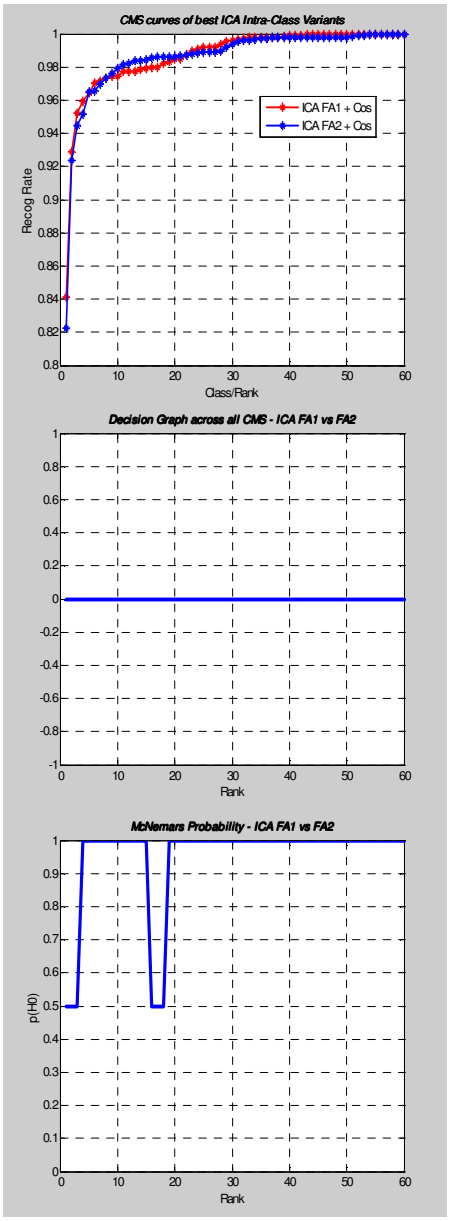







CMS curves of best ICA Intra-Class Variants
ICA IA2 + Cos
ICA FA1 + Cos
Recog Rate
Class/Rank
Decision Graph across all CMS - ICA IA2 vs FA1
Rank
McNemars Probability - ICA IA2 vs FA1
p(H0)
Rank


CMS curves of best ICA Intra-Class Variants
ICA IA2 + Cos
ICA FA2 + Cos
Recog Rate
Class/Rank
Decision Graph across all CMS - ICA IA2 vs FA2
Rank
McNemars Probability - ICA IA2 vs FA2
p(H0)
Rank

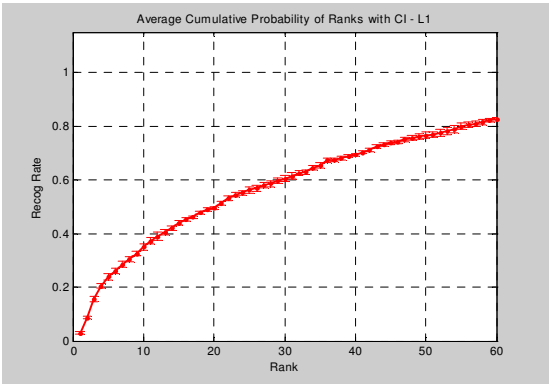

CMS curves of best ICA Intra-Class Variants
ICA FA1 + Cos
ICA FA2 + Cos
Recog Rate
Class/Rank
Decision Graph across all CMS - ICA FA1 vs FA2
Rank
McNemars Probability - ICA FA1 vs FA2
p(H0)
Rank

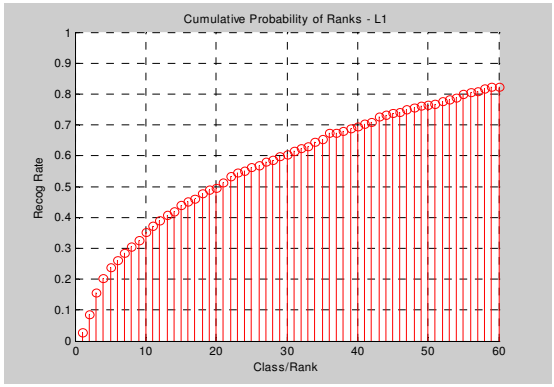
Lower Occlusion

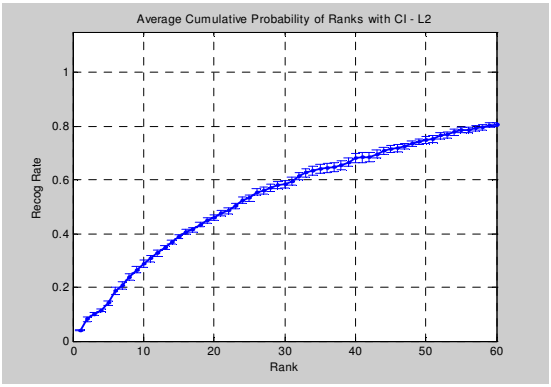
PCA

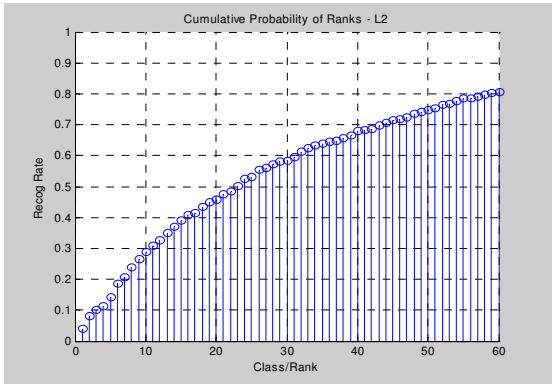
Confidence Interval & Stem plots

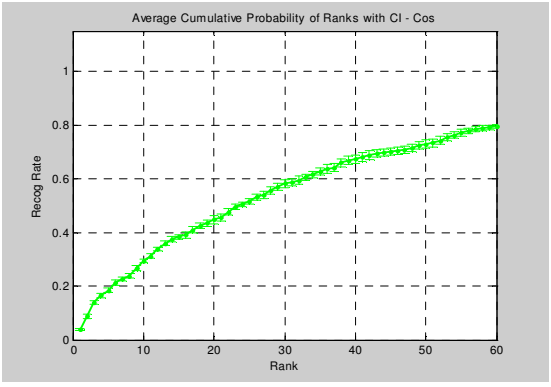
Linear

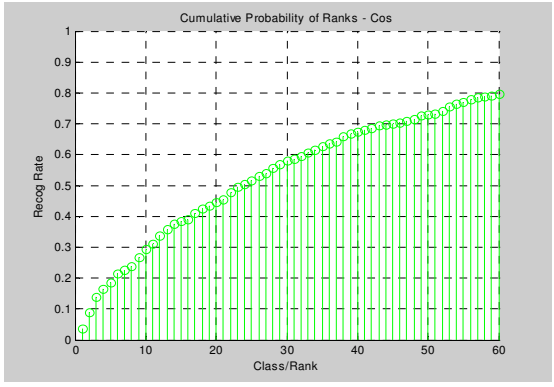


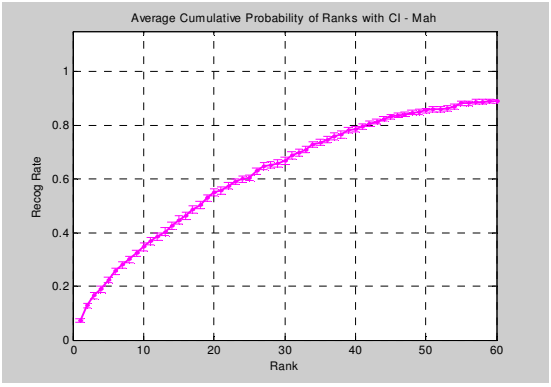


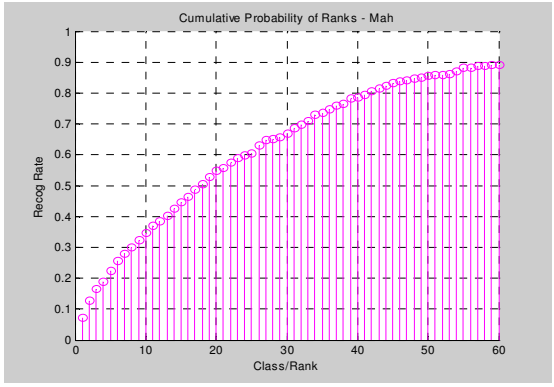


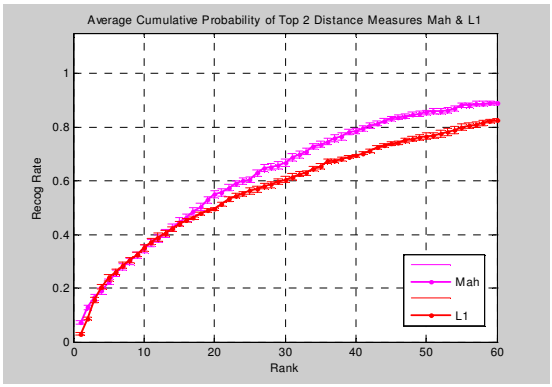




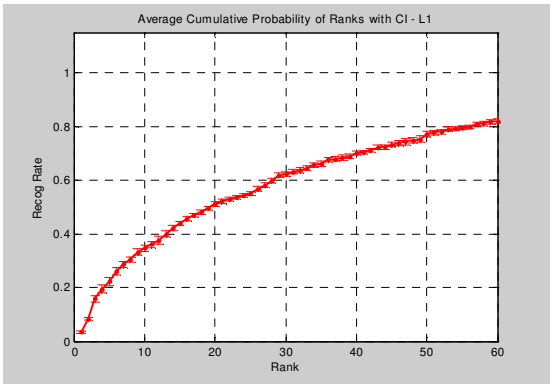


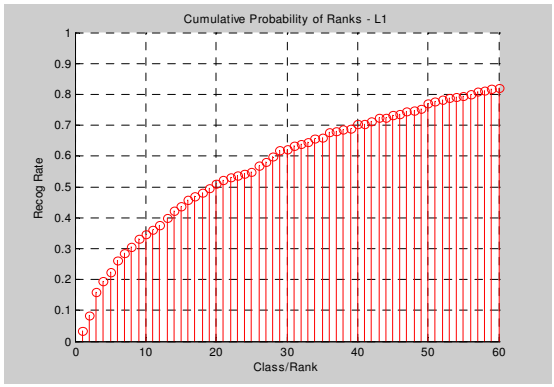


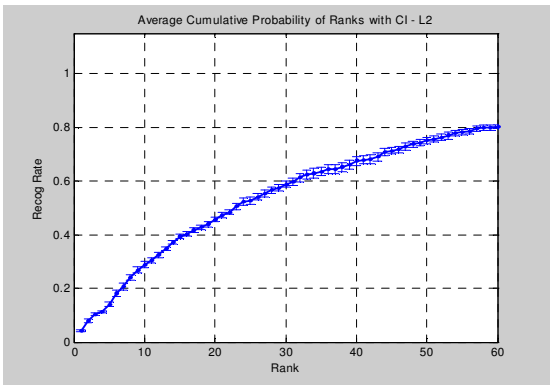


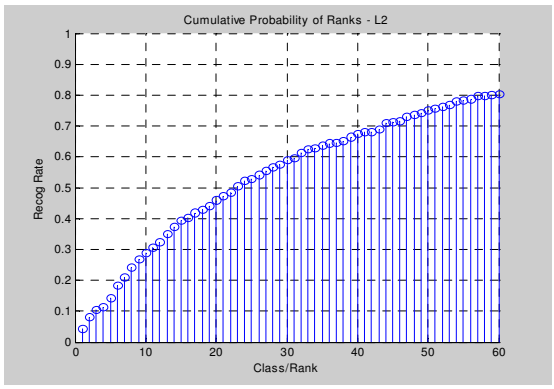

Average Cumulative Probability of Top 2 Distance Measures Mah & L1
Recog Rate
Rank
Mah
L1

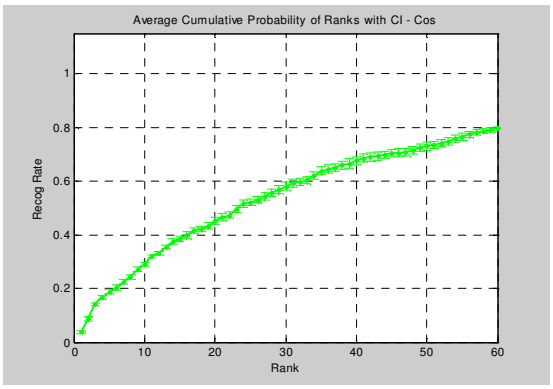
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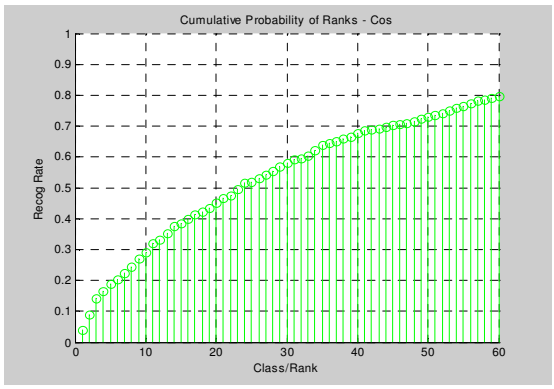

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

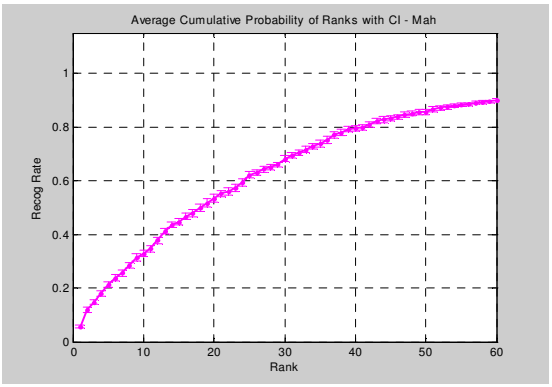

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

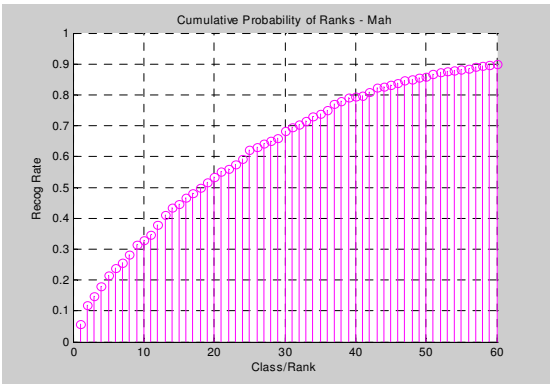

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

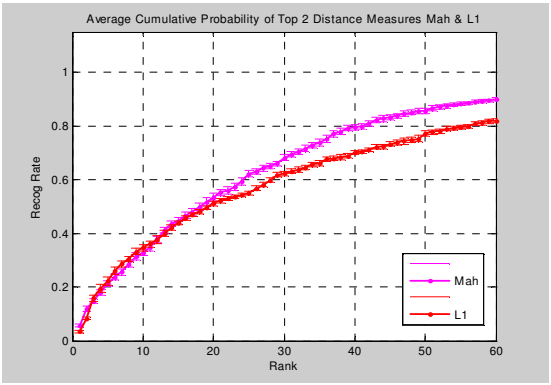

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

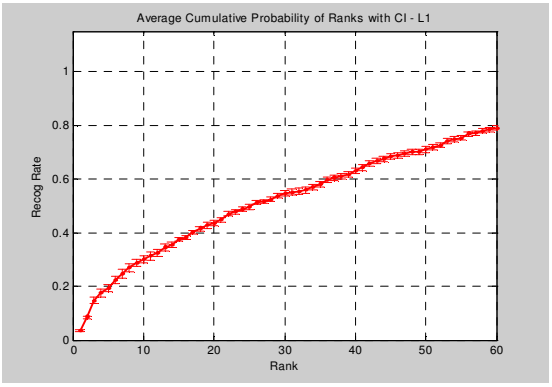

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

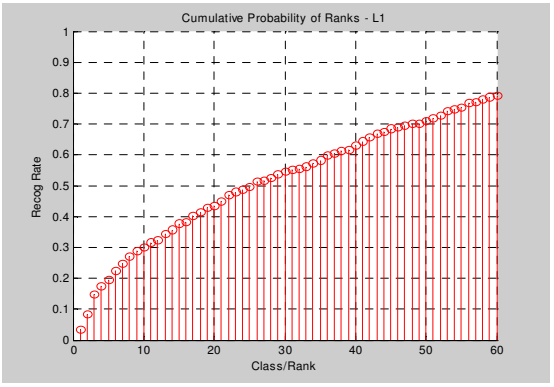

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

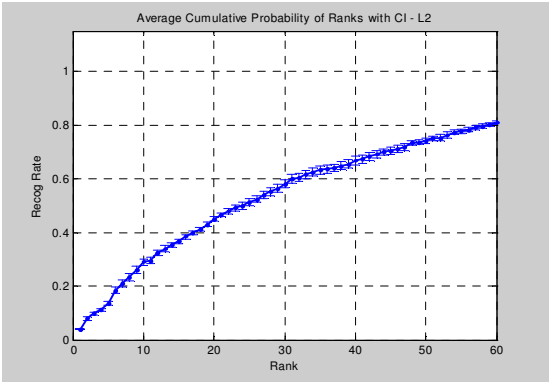

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

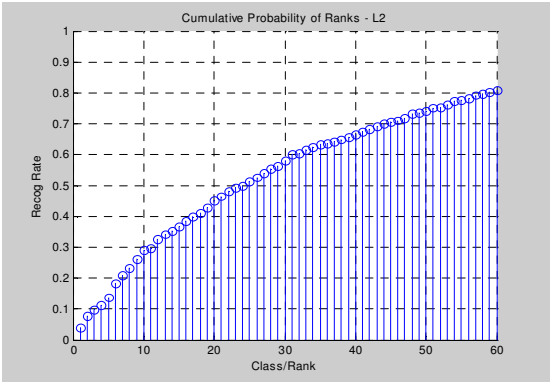

Average Cumulative Probability of Top 2 Distance Measures Mah & L1
Recog Rate
Rank
Mah
L1

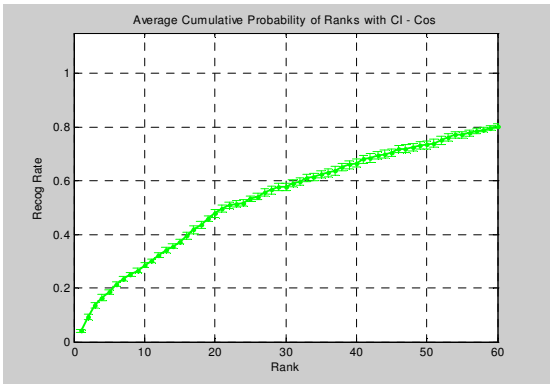
Polynomial

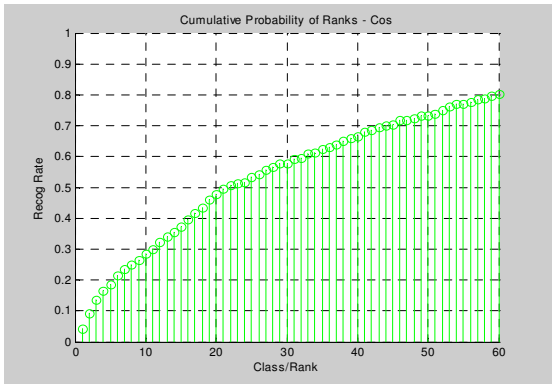

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

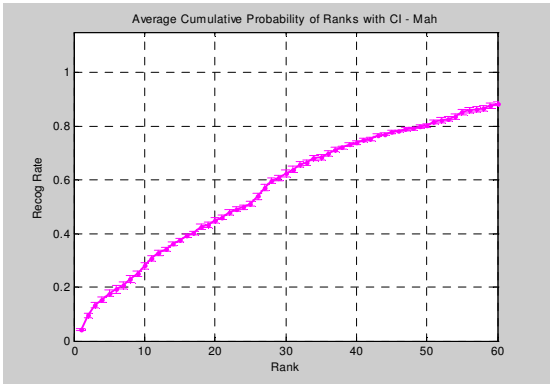

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

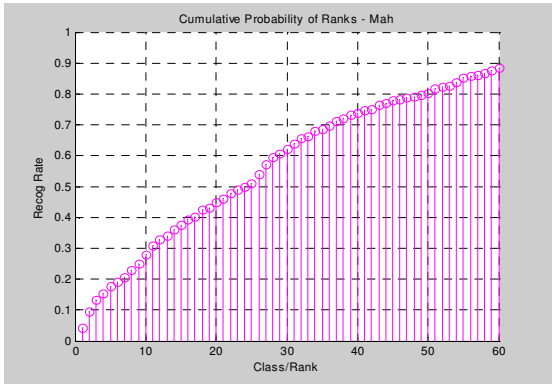

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

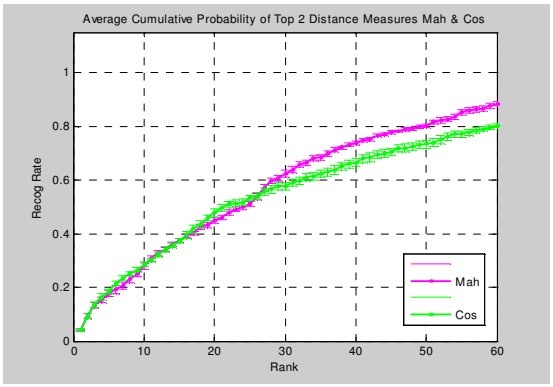

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank
0
0.2
0.4
0.6
0.8
1
0
10
20
30
40
50
60

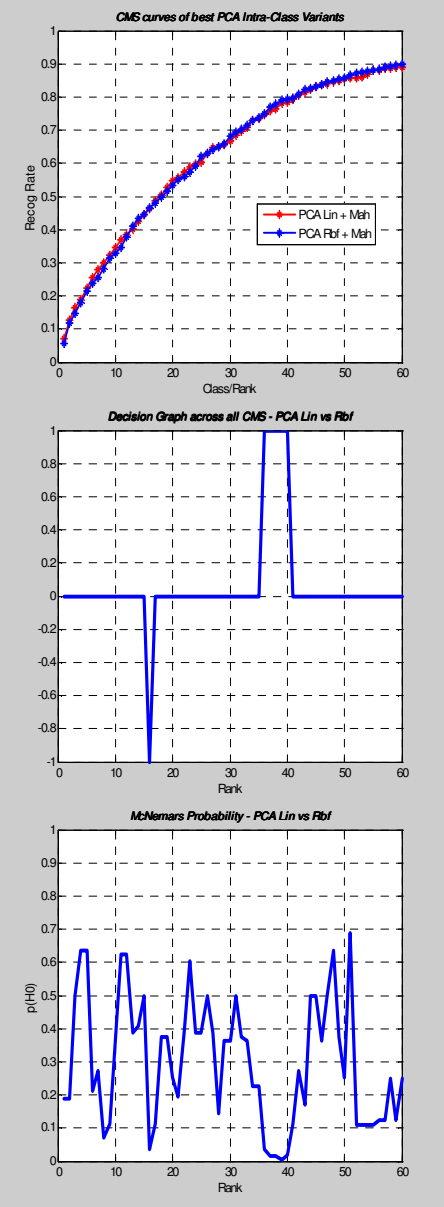

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
10
20
30
40
50
60

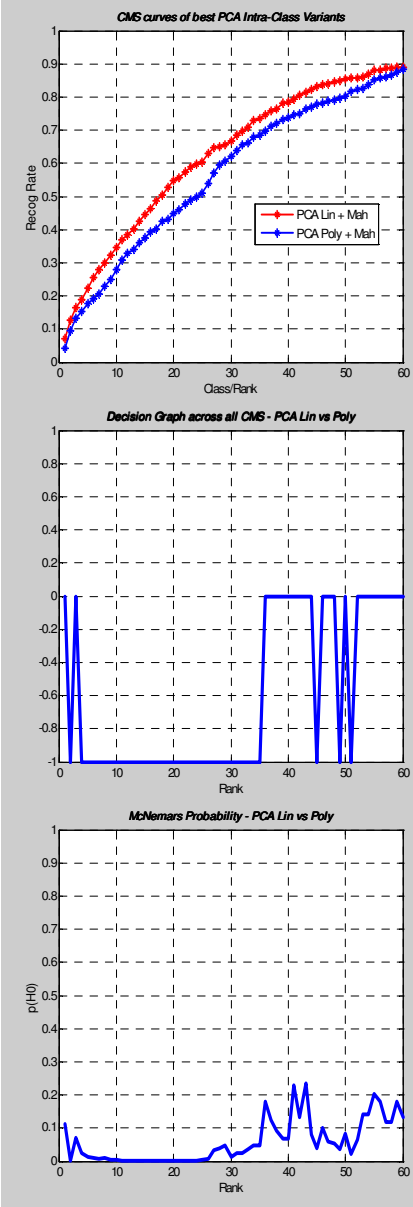

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank
0
0.2
0.4
0.6
0.8
1
0
10
20
30
40
50
60

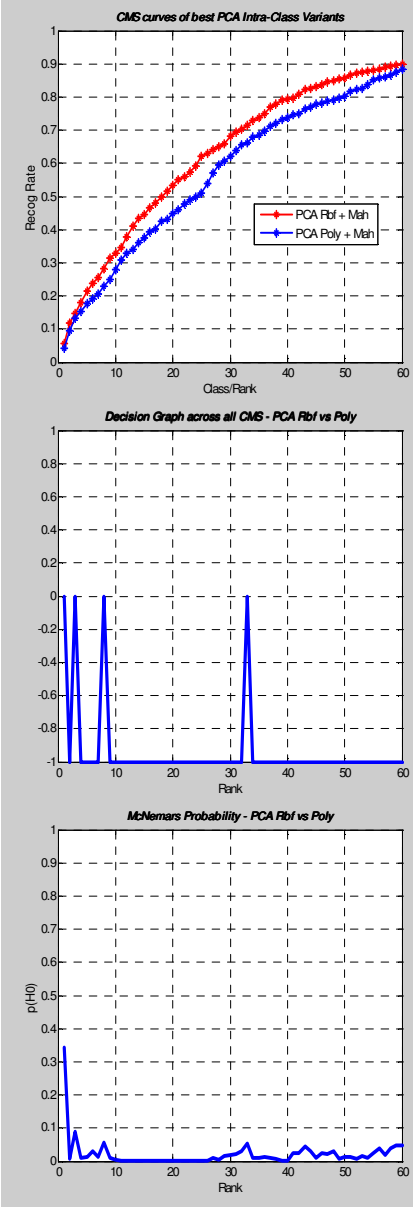

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
10
20
30
40
50
60


Average Cumulative Probability of Top 2 Distance Measures Mah & Cos
Recog Rate
Rank
Mah
Cos
0
0.2
0.4
0.6
0.8
1
0
10
20
30
40
50
60

McNemar's Testing for the PCA class in category of Lower Occlusion



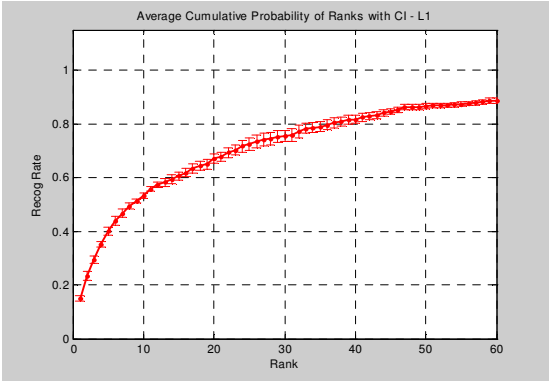


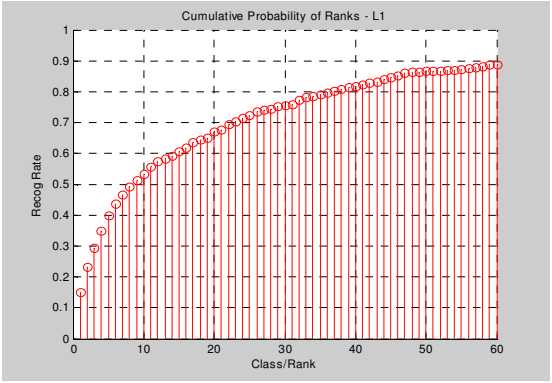


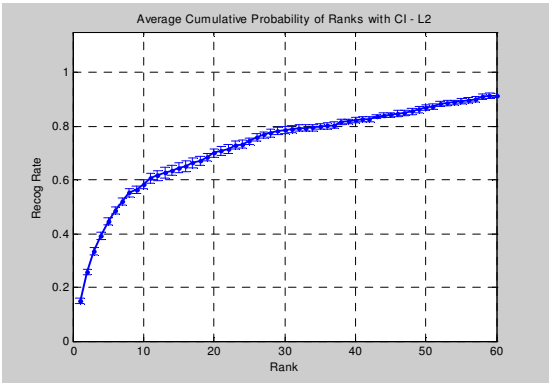
LDA

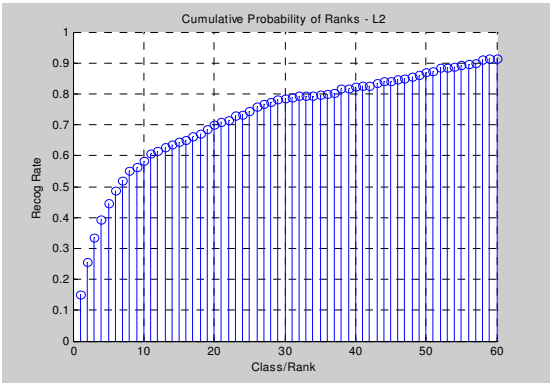
Confidence Interval & Stem plots

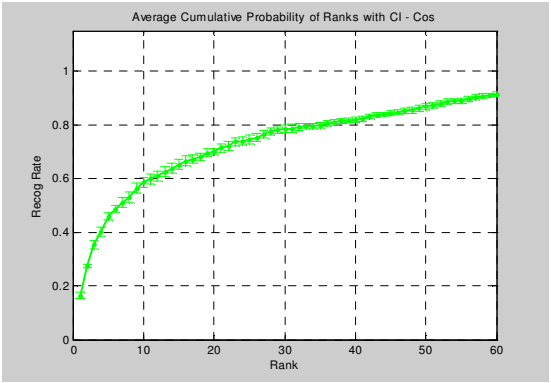
Linear

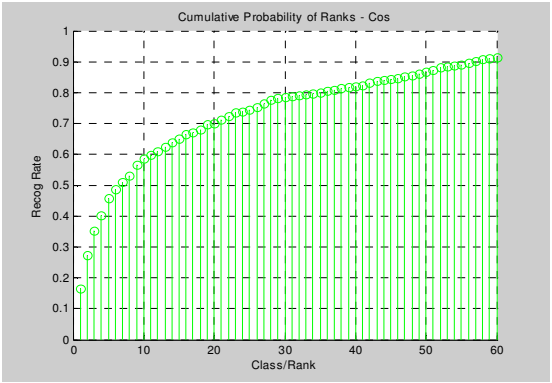


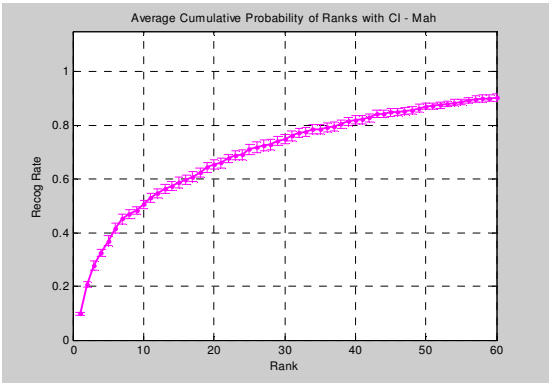


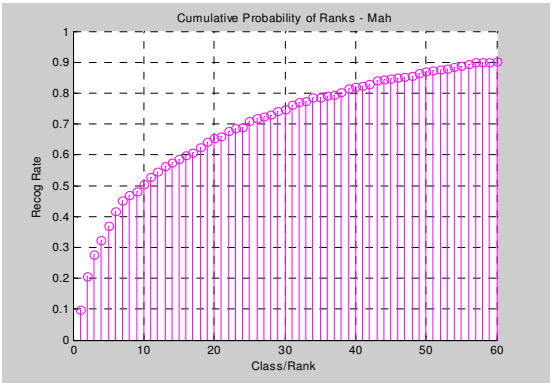


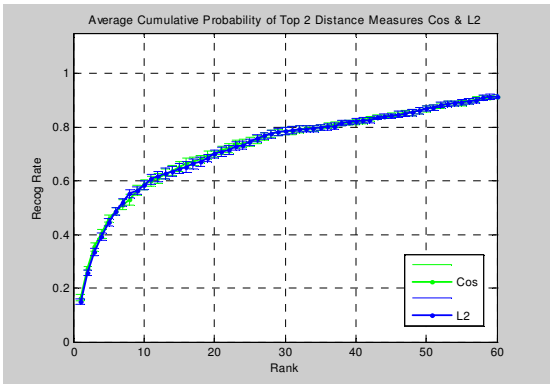




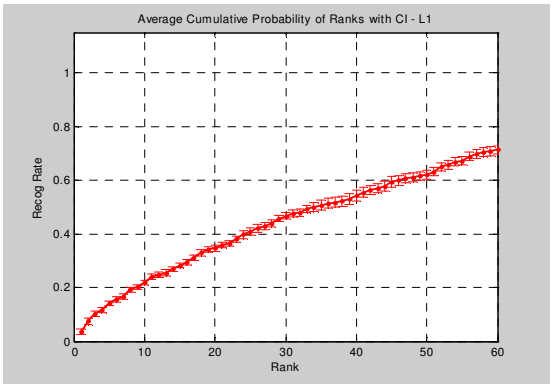


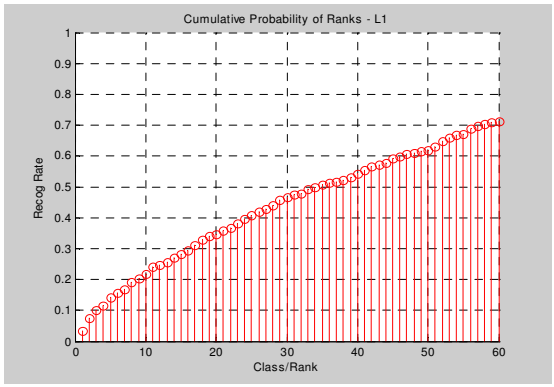


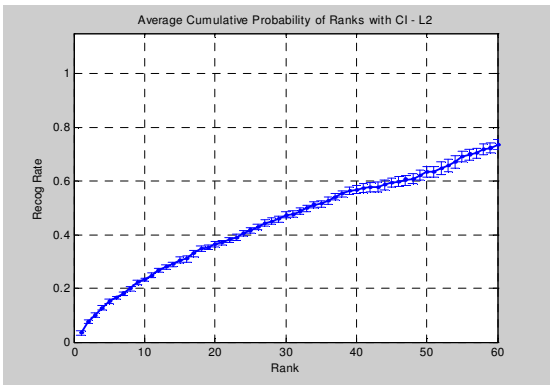


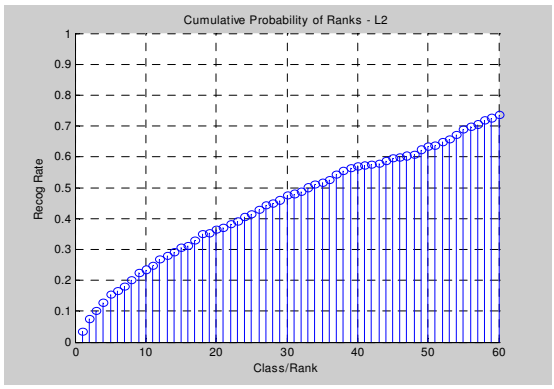

Average Cumulative Probability of Top 2 Distance Measures Cos & L2
Recog Rate
Rank
Cos
L2

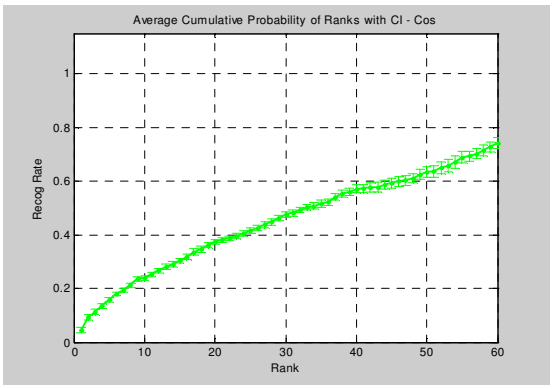
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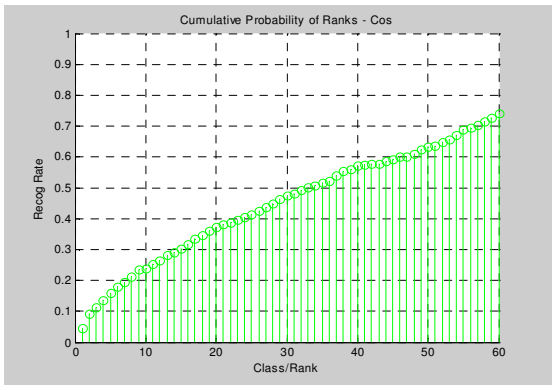

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

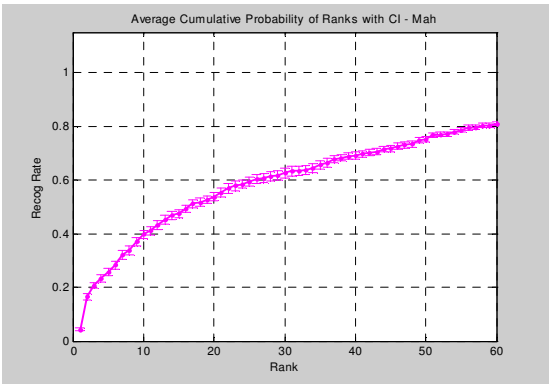

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

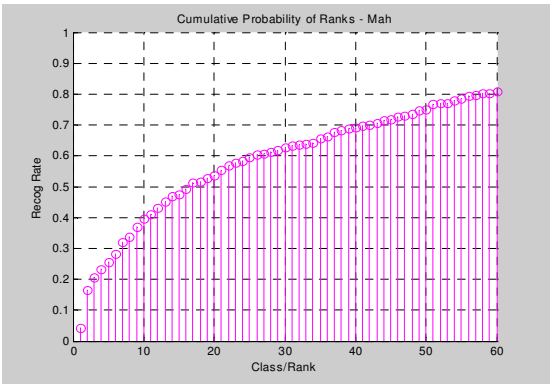

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

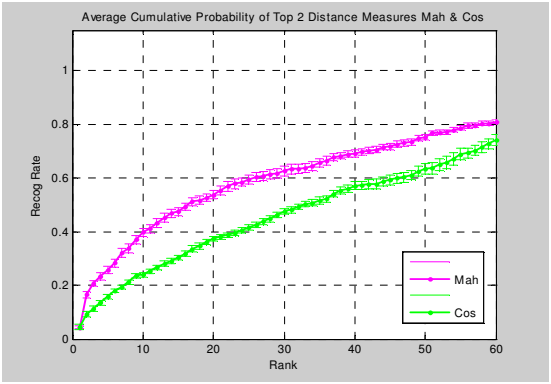

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

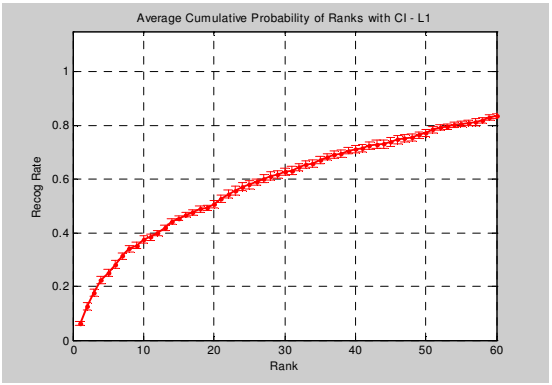

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

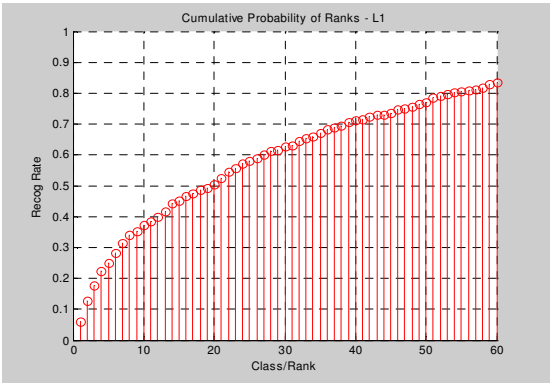

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

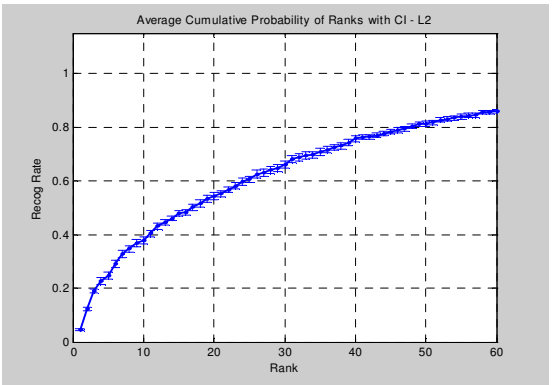

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

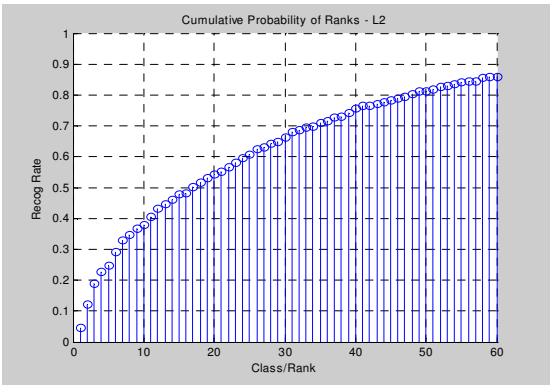

Average Cumulative Probability of Top 2 Distance Measures Mah & Cos
Recog Rate
Rank
Mah
Cos

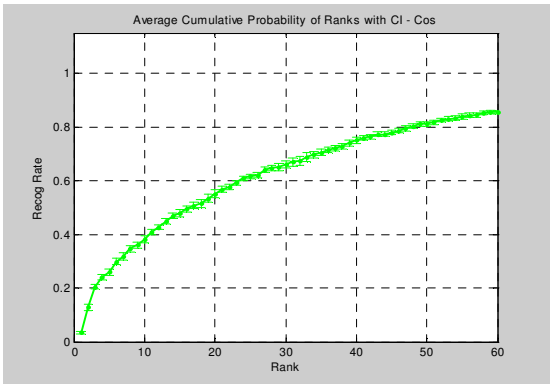
Polynomial

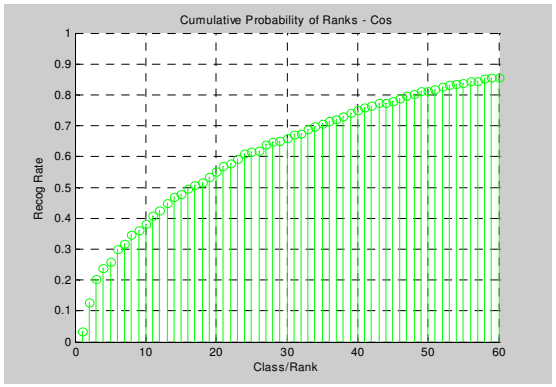

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

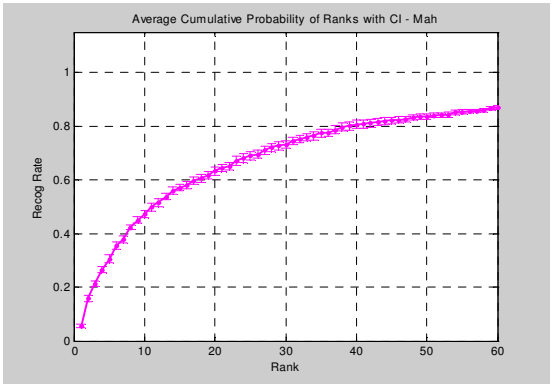

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

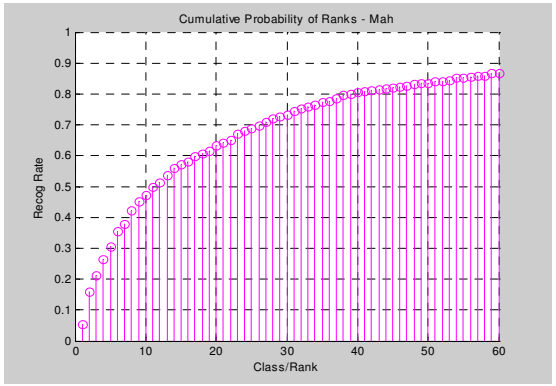

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

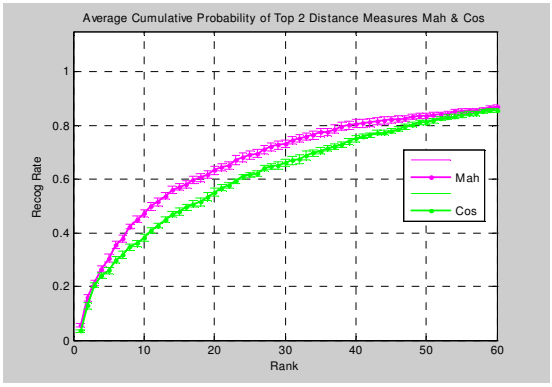

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

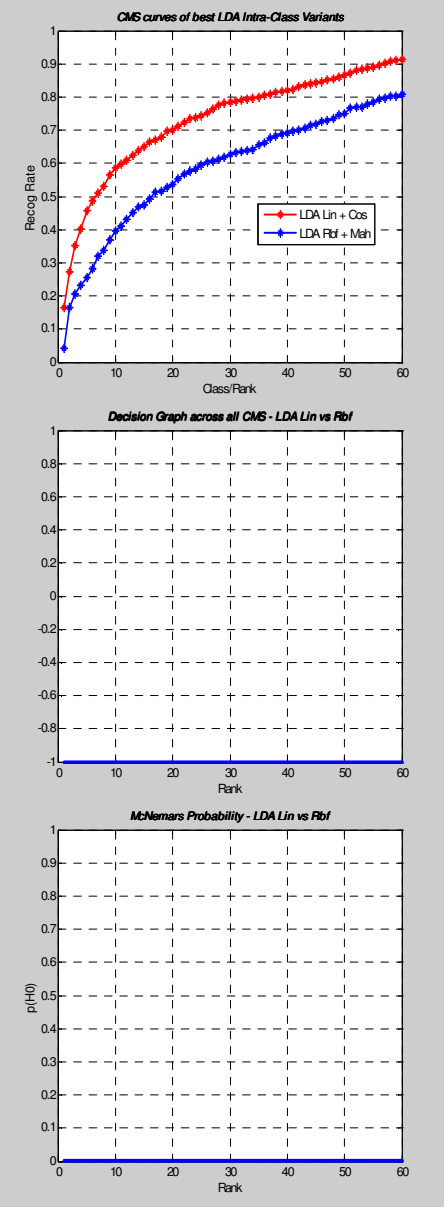

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

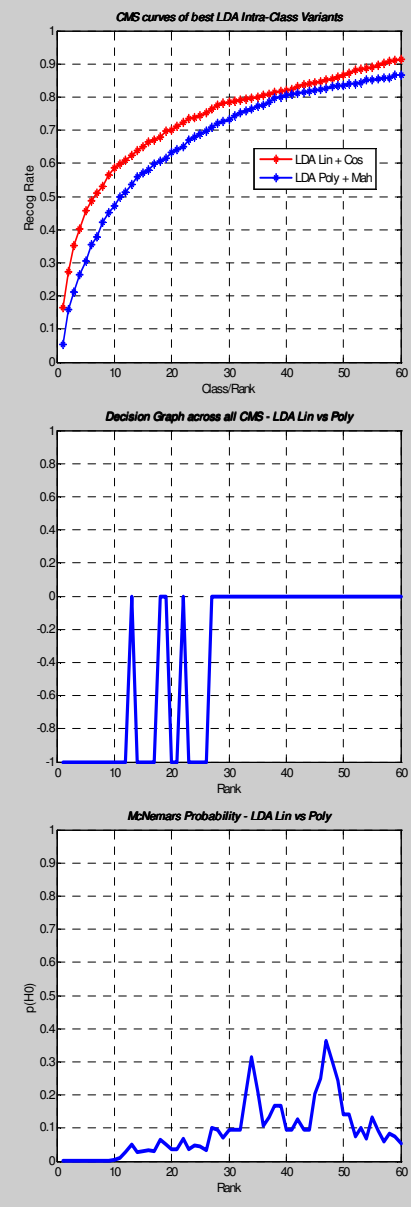

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

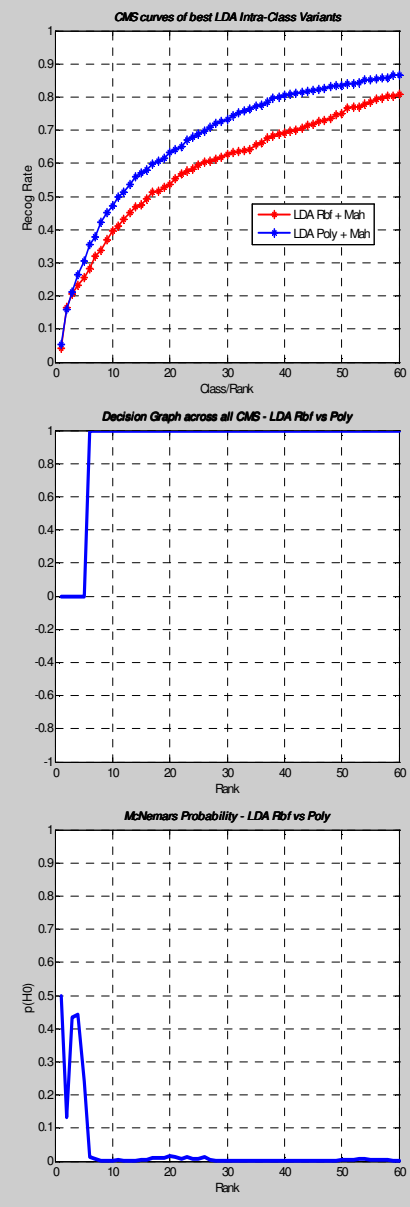

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank


Average Cumulative Probability of Top 2 Distance Measures Mah & Cos
Recog Rate
Rank
Mah
Cos

McNemar's Testing for the LDA class in category of Lower Occlusion



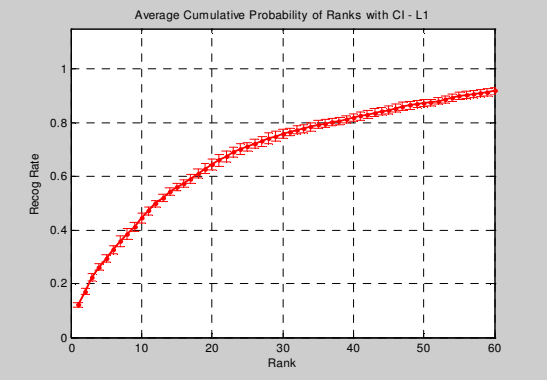


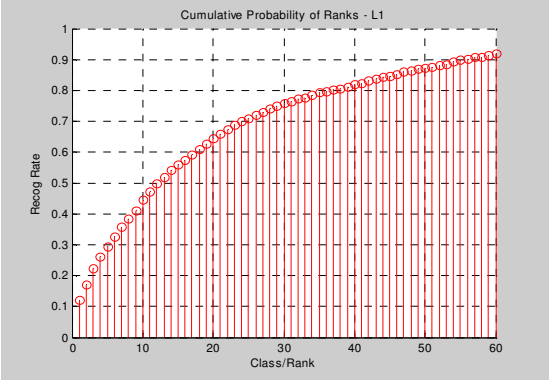


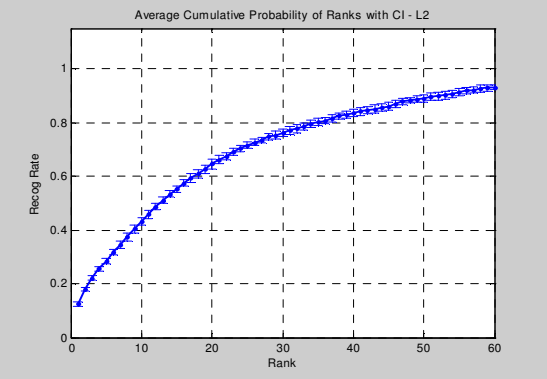
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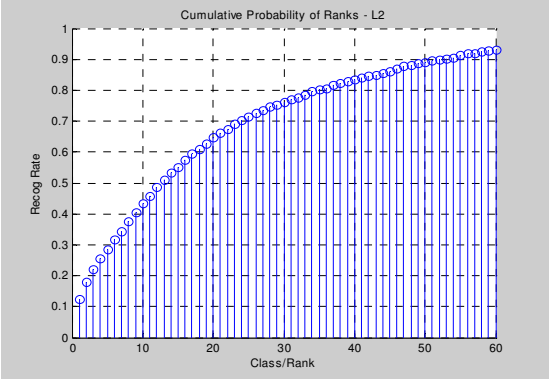
Confidence Interval & Stem plots

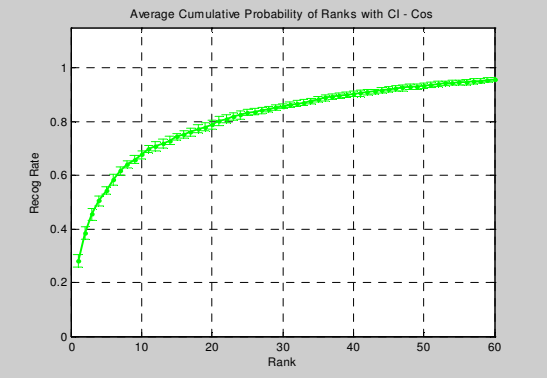
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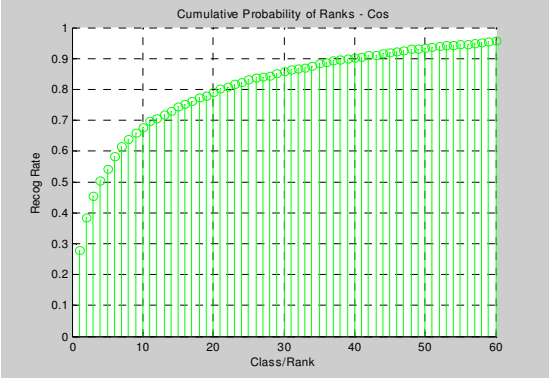


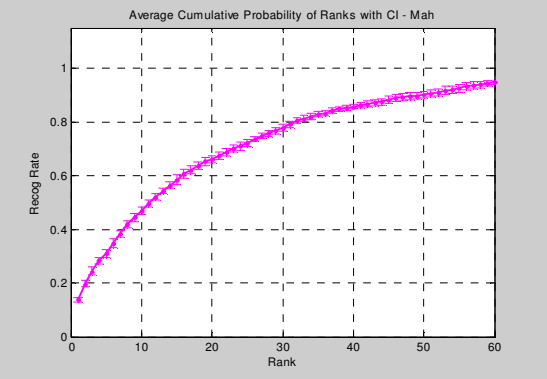


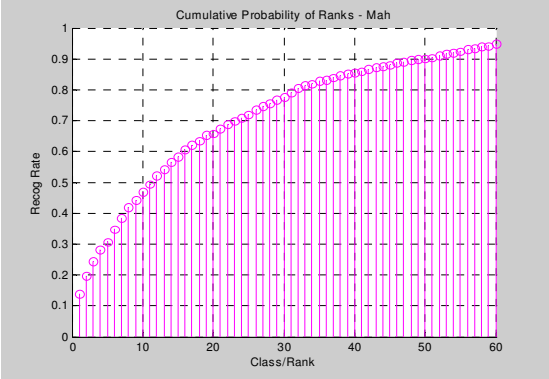


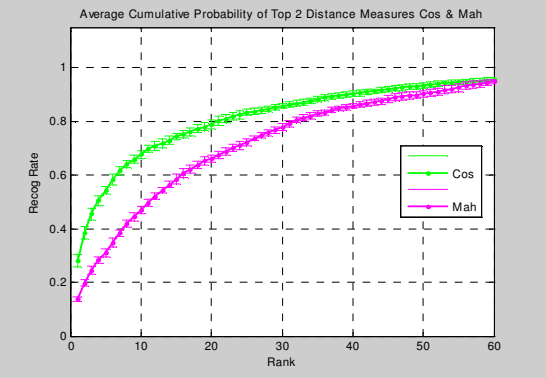




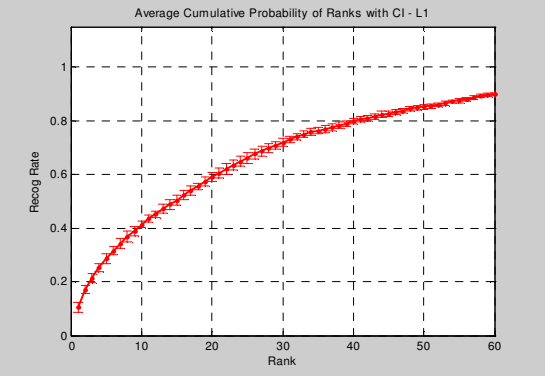


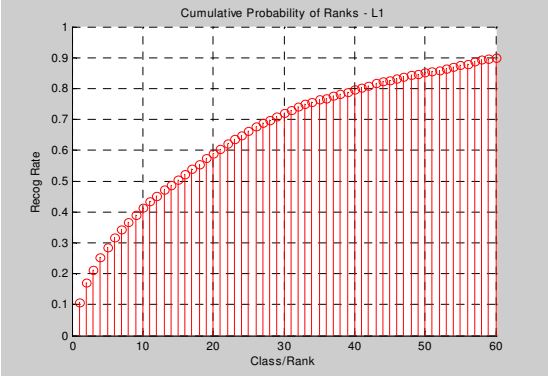


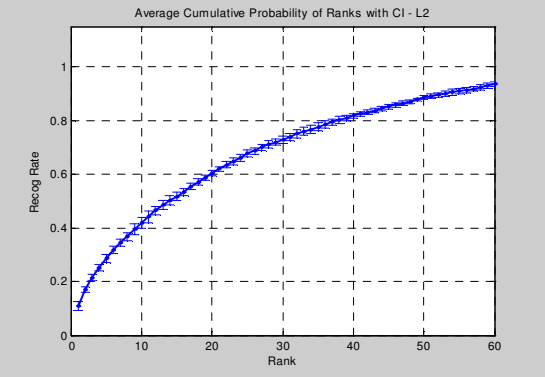


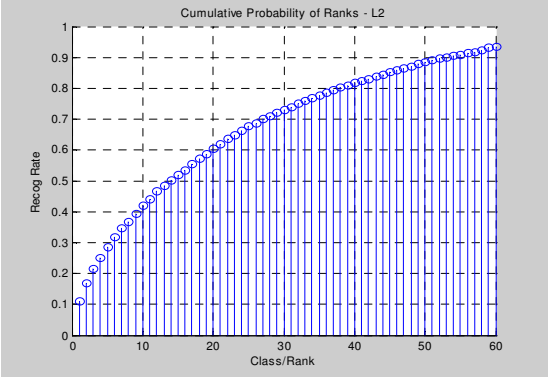


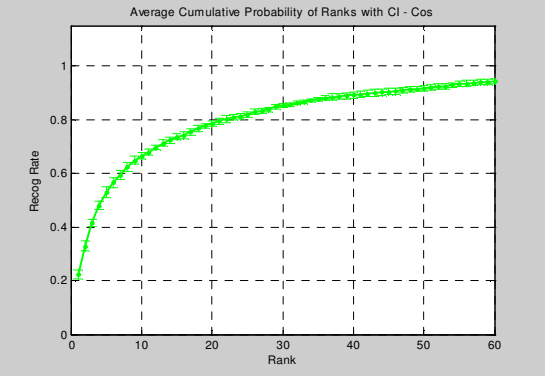
InfoMax Architecture II

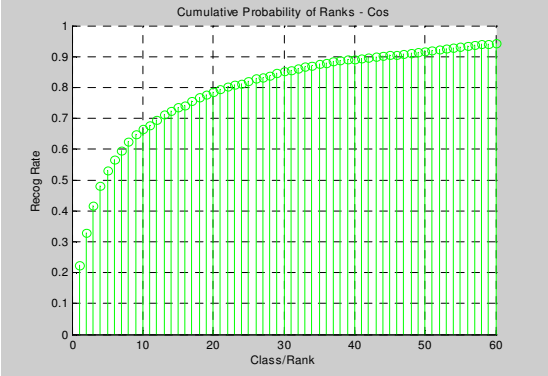


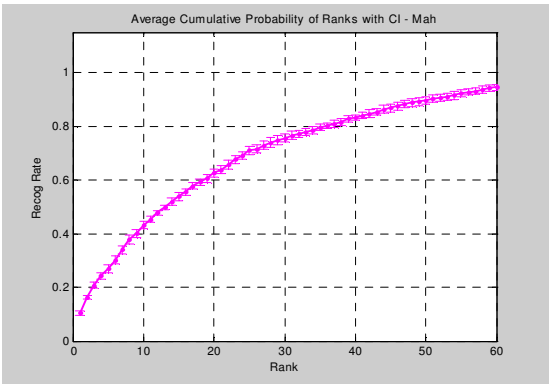


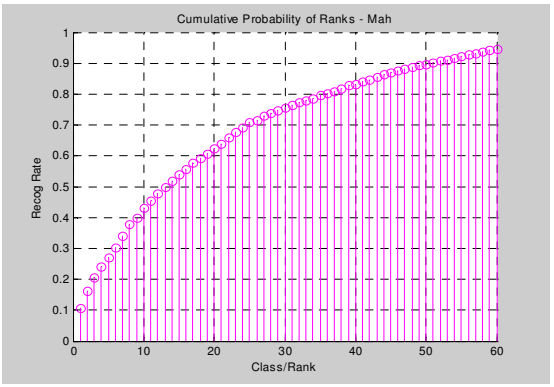


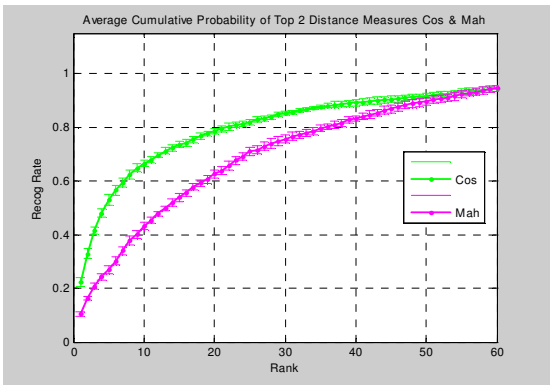




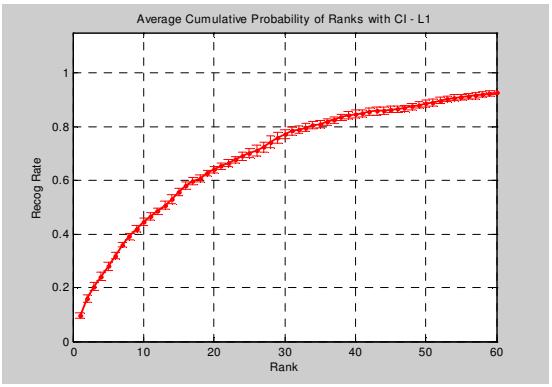


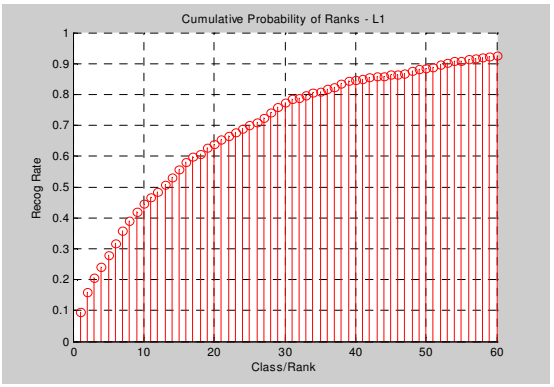


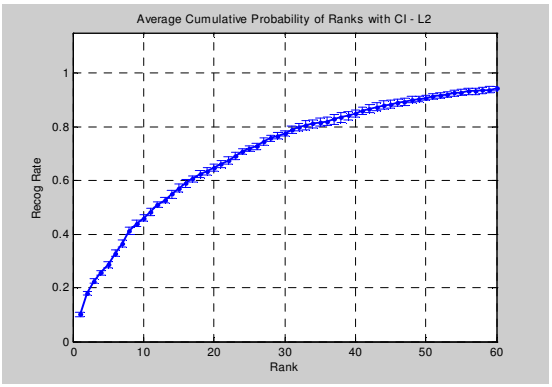


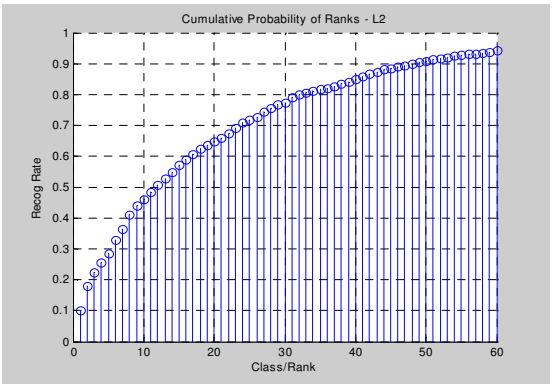


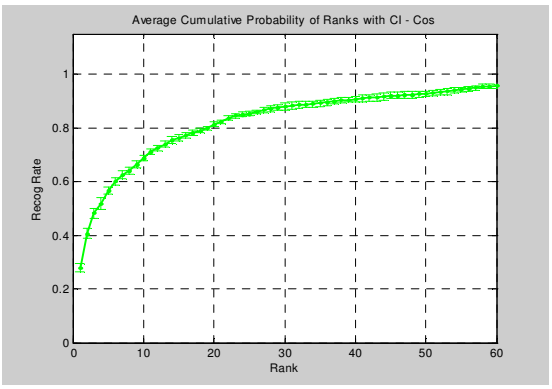
FastICA Architecture I

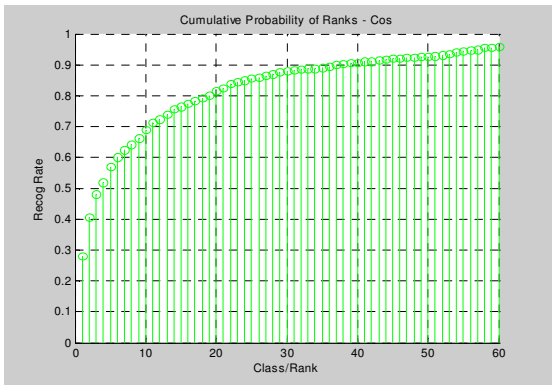


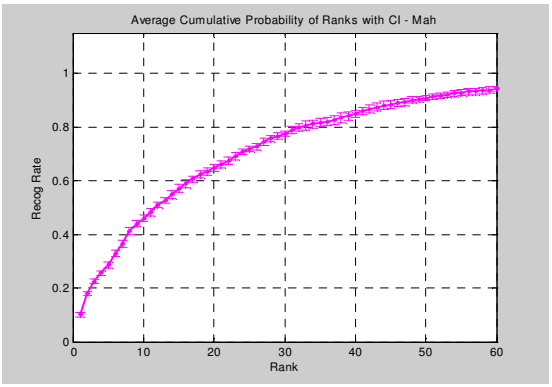


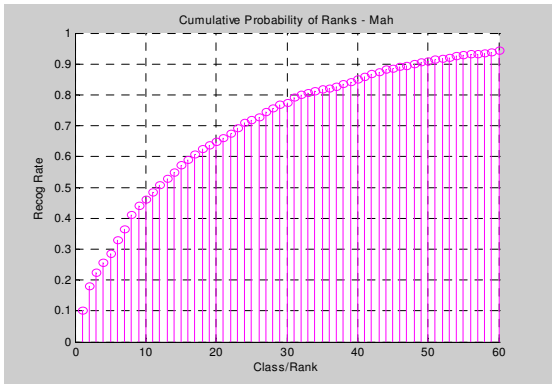


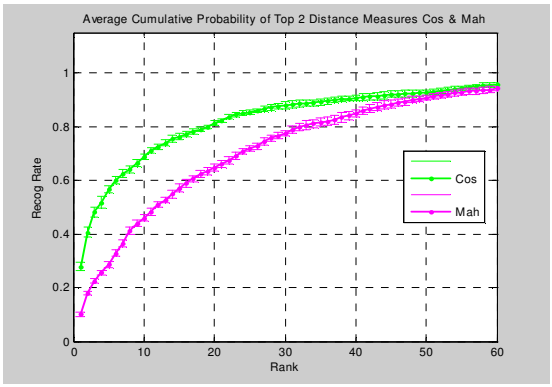




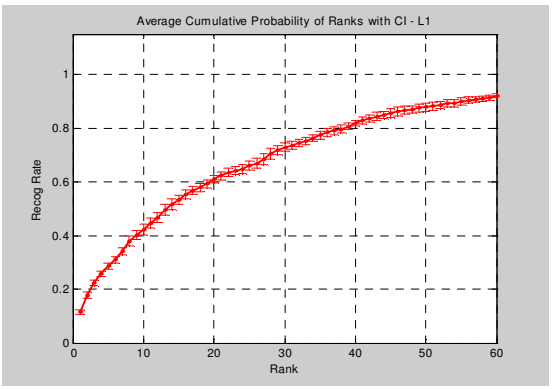


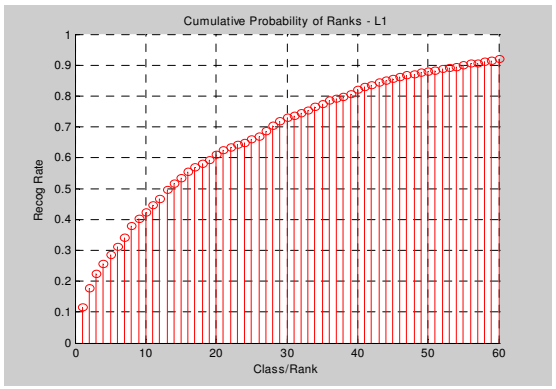


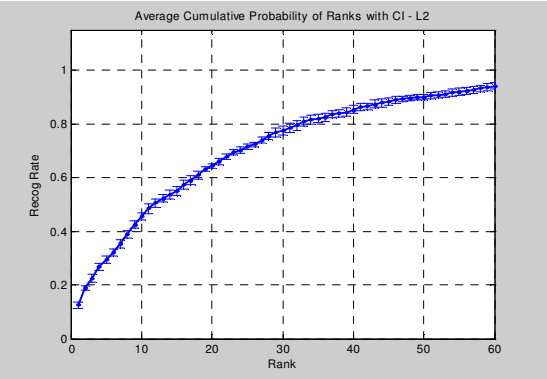


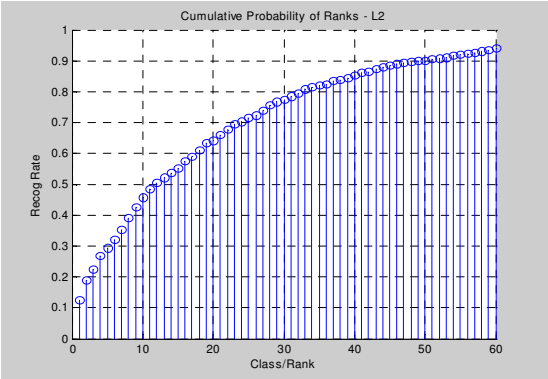


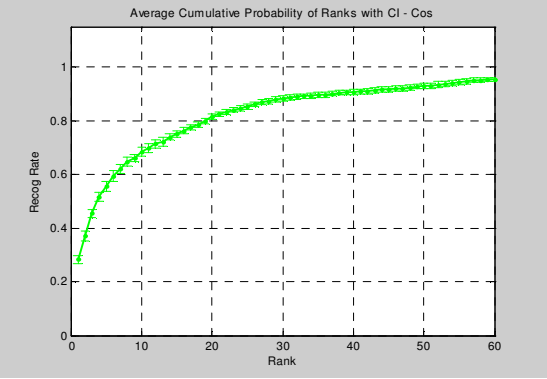
FastICA Architecture II

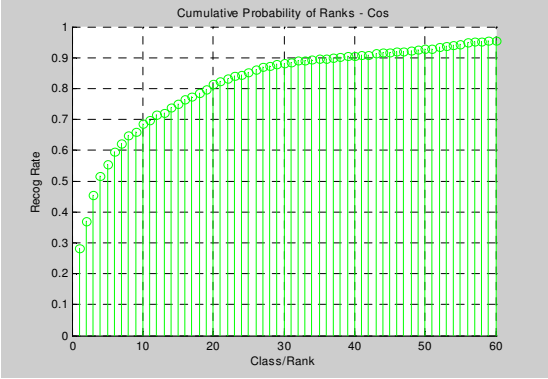


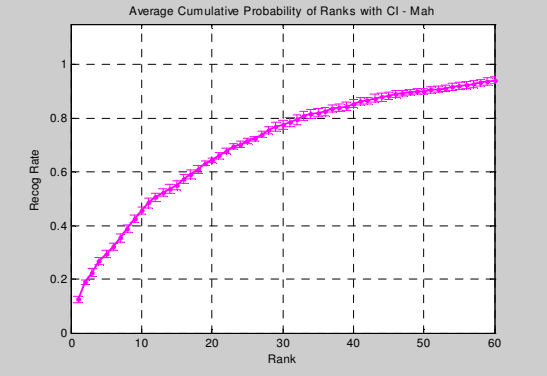


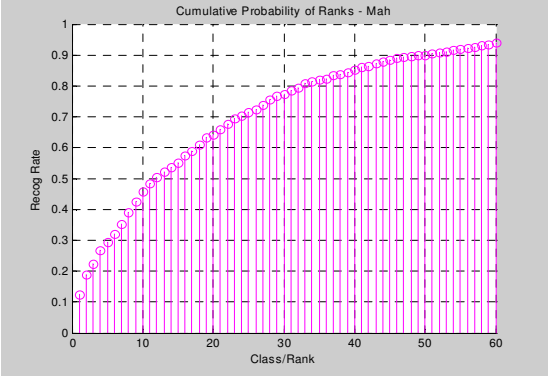

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

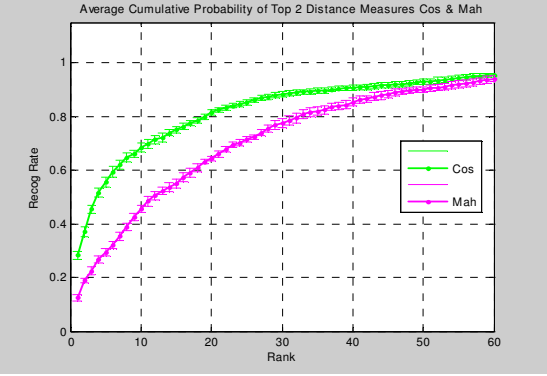

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

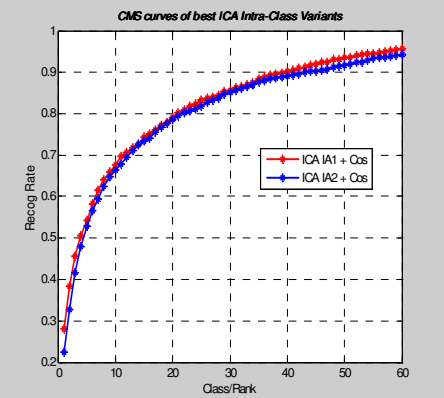

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

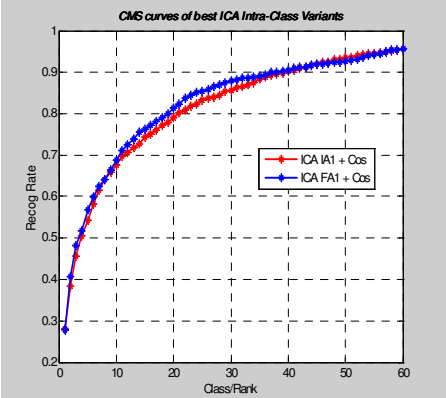

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

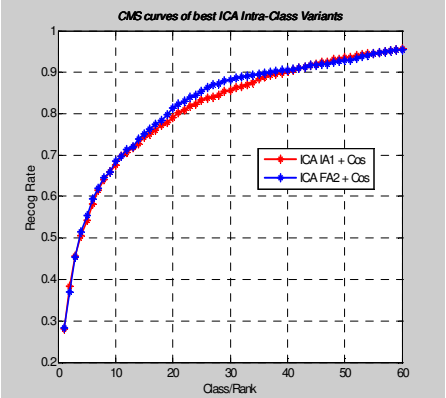

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

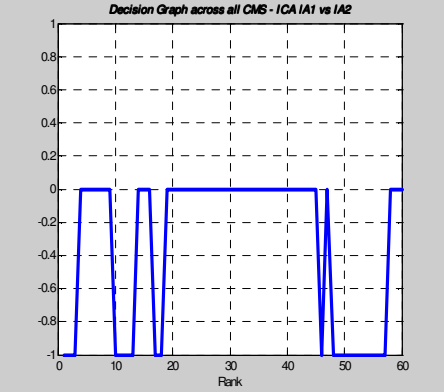

Average Cumulative Probability of Top 2 Distance Measures Cos & Mah
Recog Rate
Rank
Cos
Mah

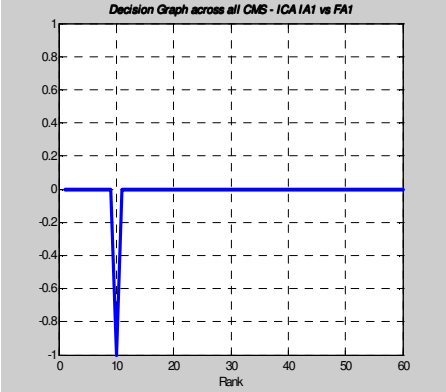
McNemar's Testing for the ICA class in category of Lower Occlusion

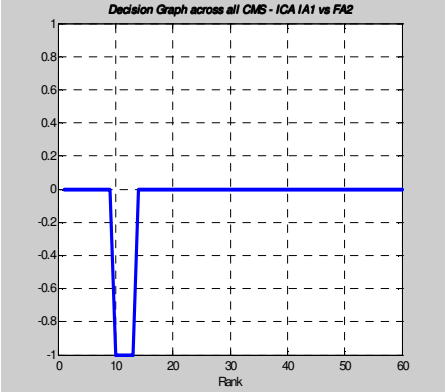


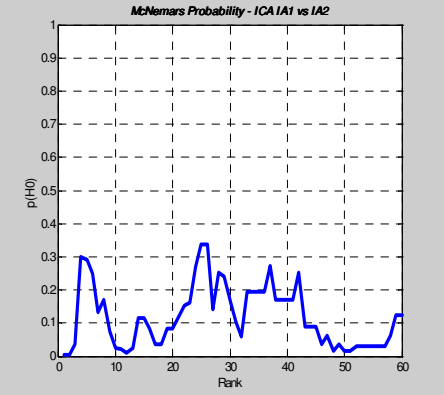


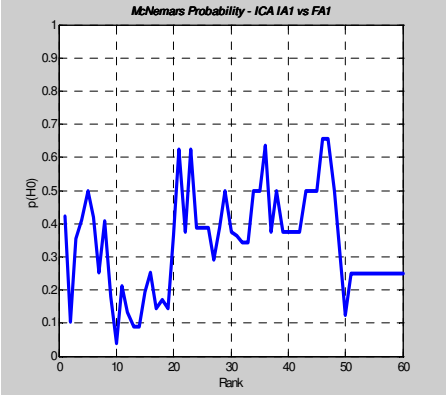


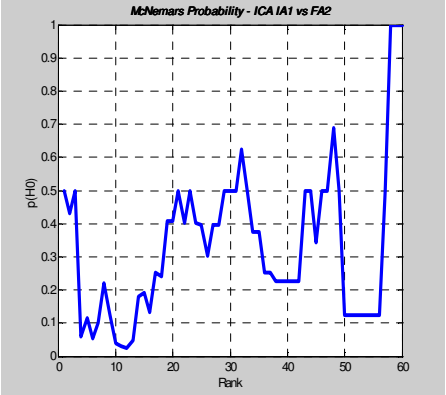


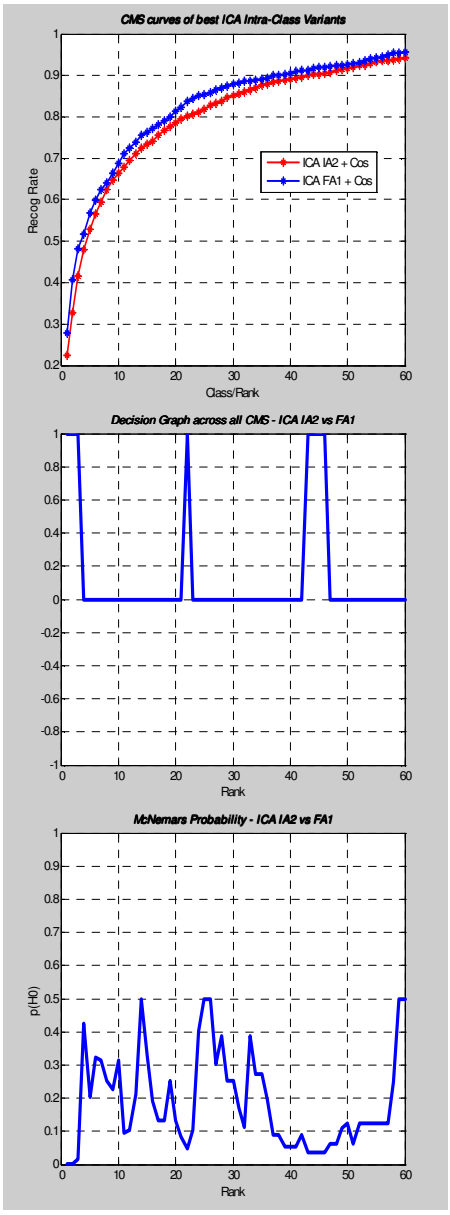


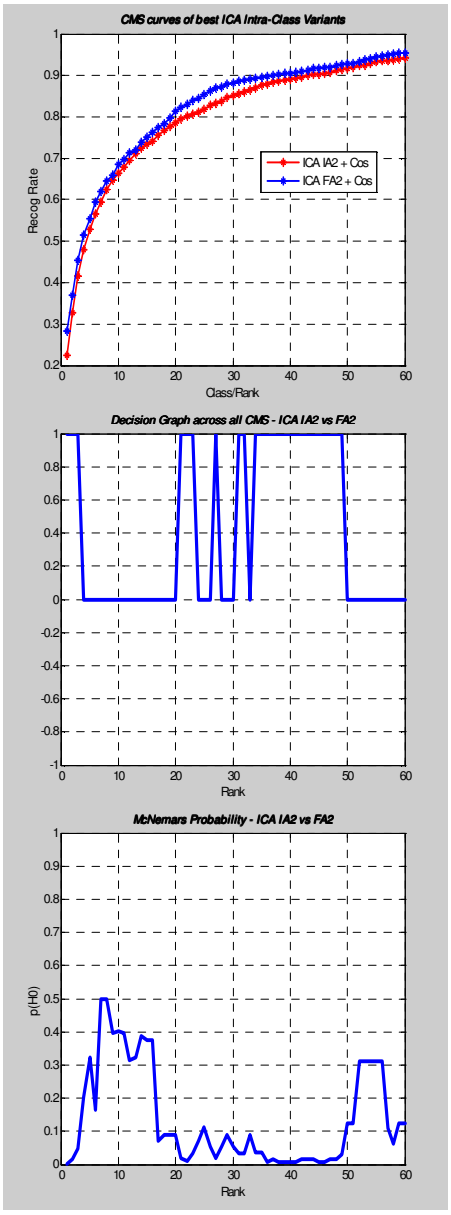


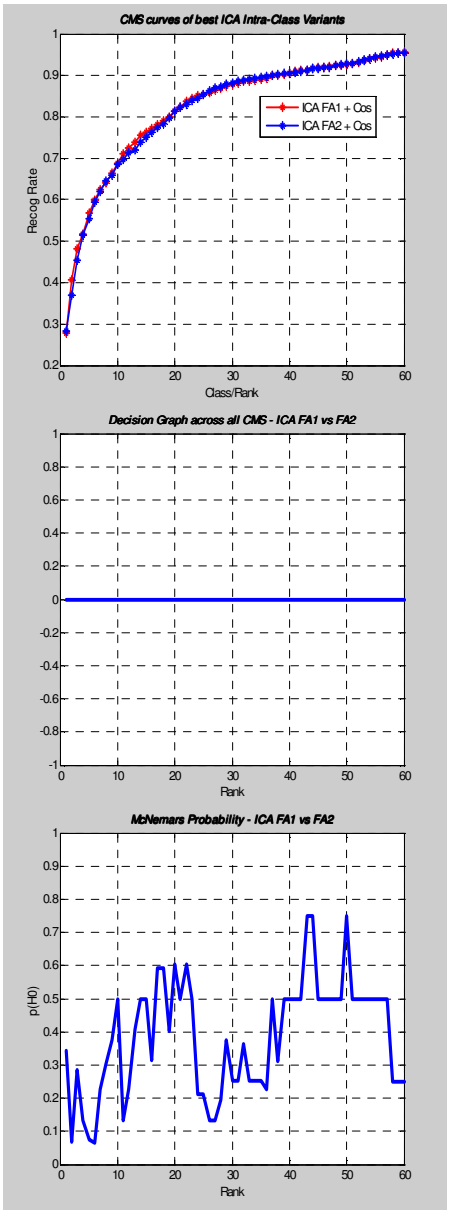







CMS curves of best ICA Intra-Class Variants
Recog Rate
Class/Rank
ICA IA2 + Cos
ICA FA1 + Cos


CMS curves of best ICA Intra-Class Variants
Recog Rate
Class/Rank
ICA IA2 + Cos
ICA FA2 + Cos


CMS curves of best ICA Intra-Class Variants
Recog Rate
Class/Rank
ICA FA1 + Cos
ICA FA2 + Cos

Decision Graph across all CMS - ICA IA2 vs FA1
Rank

Decision Graph across all CMS - ICA IA2 vs FA2
Rank

Decision Graph across all CMS - ICA FA1 vs FA2
Rank

McNemars Probability - ICA IA2 vs FA1
p(H0)
Rank

McNemars Probability - ICA IA2 vs FA2
p(H0)
Rank

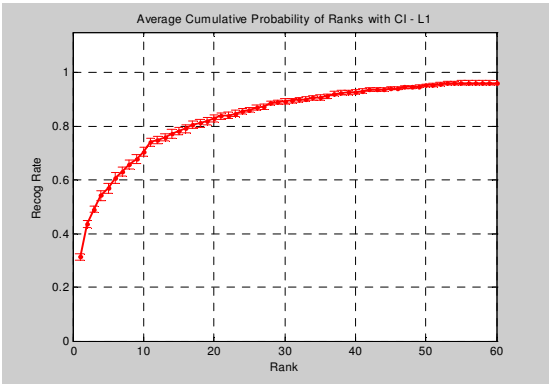
McNemars Probability - ICA FA1 vs FA2
p(H0)
Rank

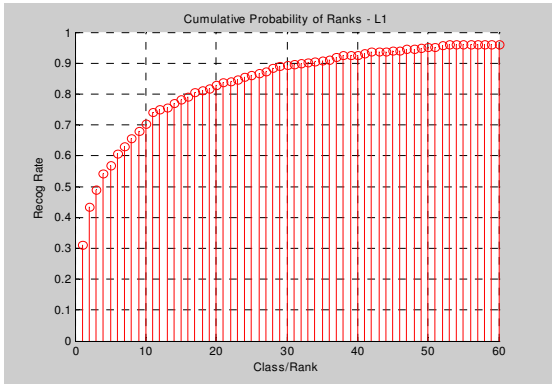
Upper Occlusion

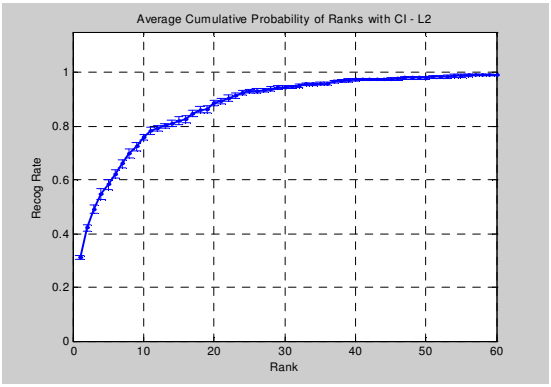
PCA

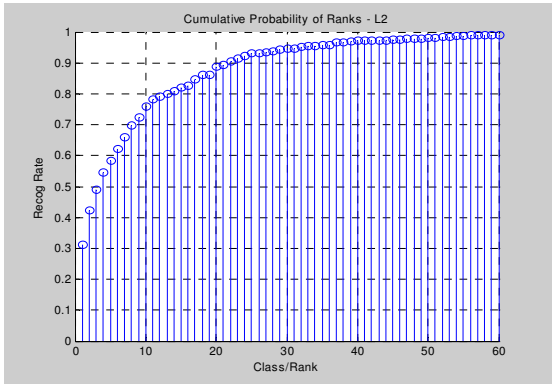
Confidence Interval & Stem plots

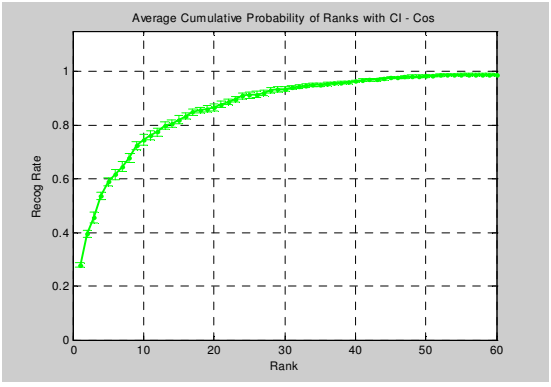
Linear

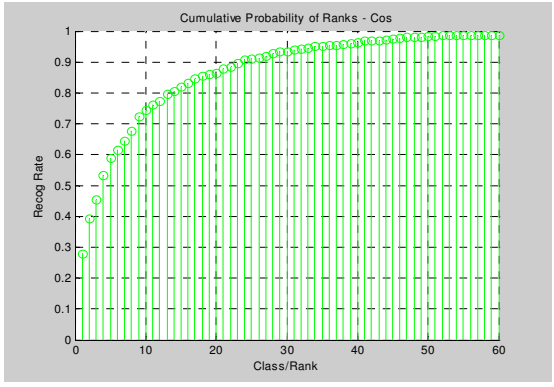


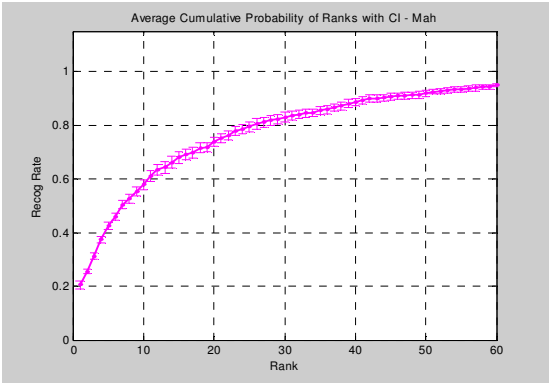


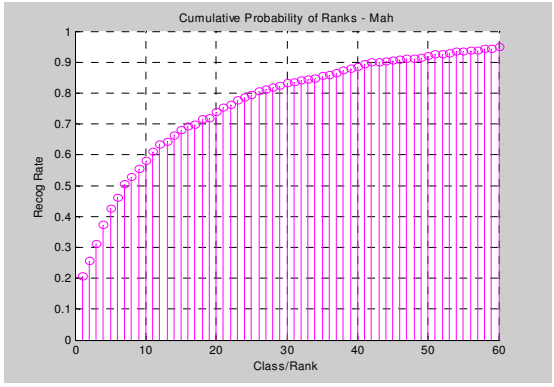


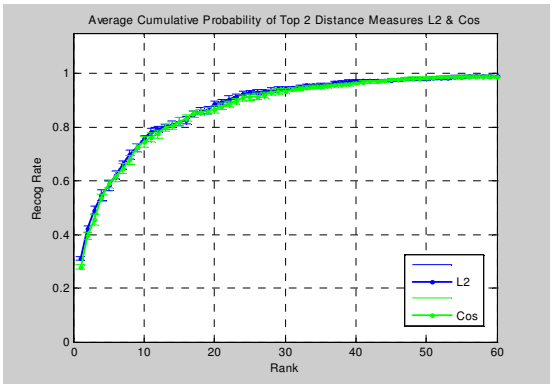




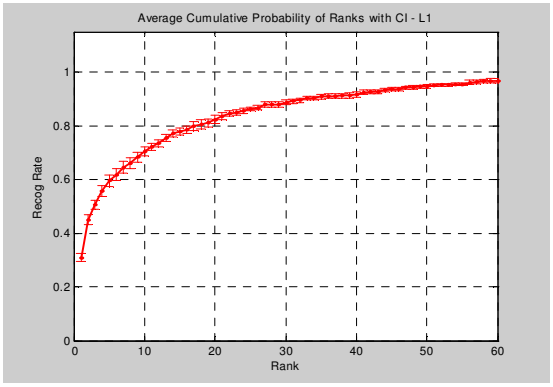


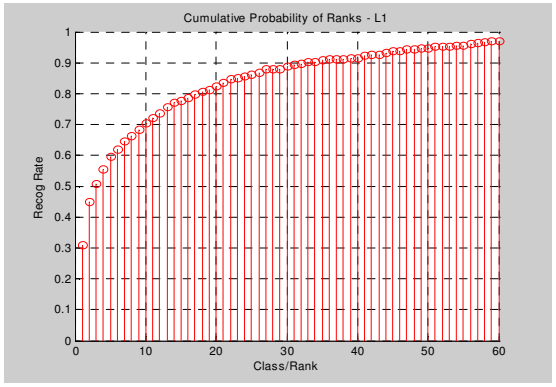


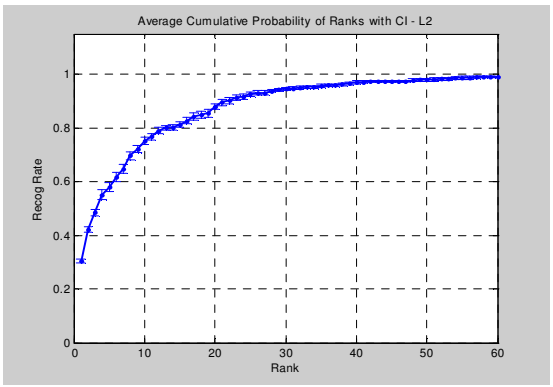


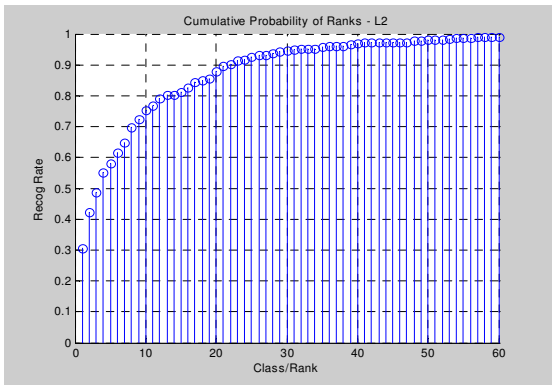

Average Cumulative Probability of Top 2 Distance Measures L2 & Cos
Recog Rate
Rank
L2
Cos

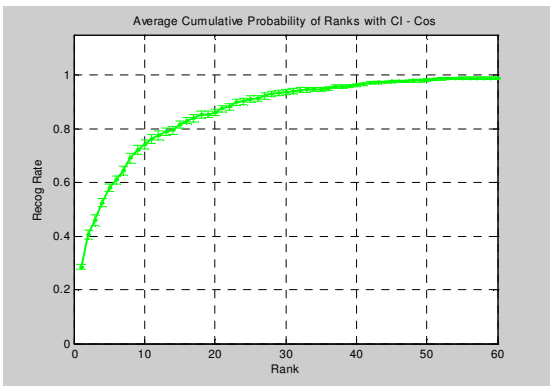
RBF

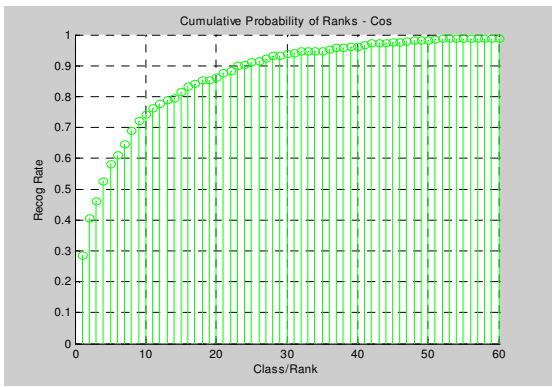

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

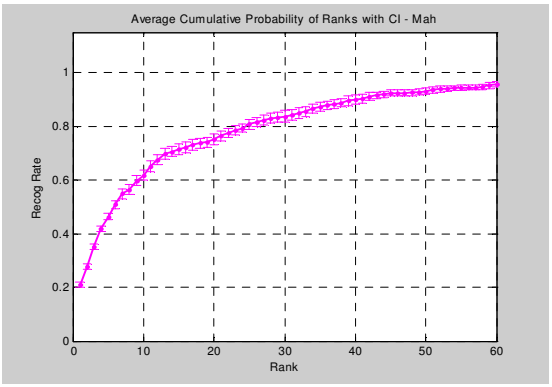

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

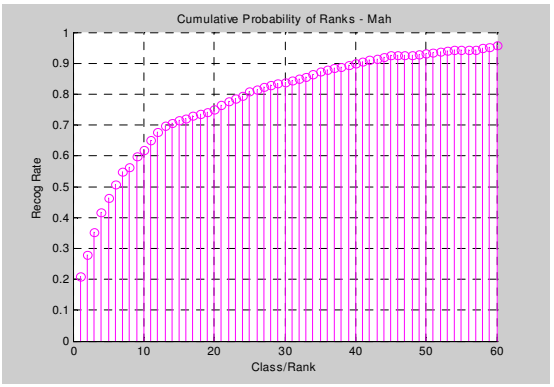

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

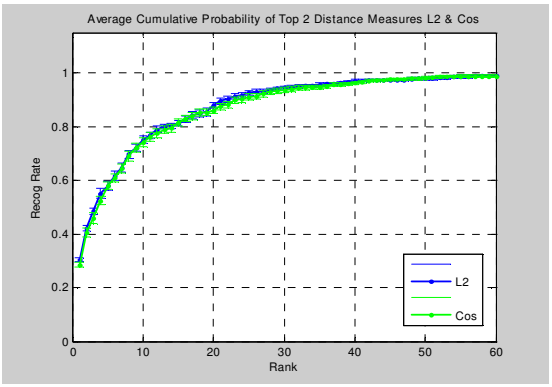

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

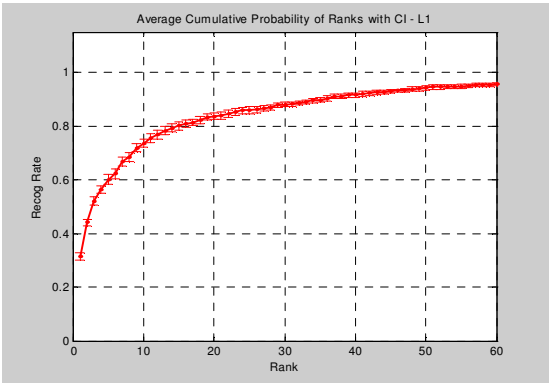

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

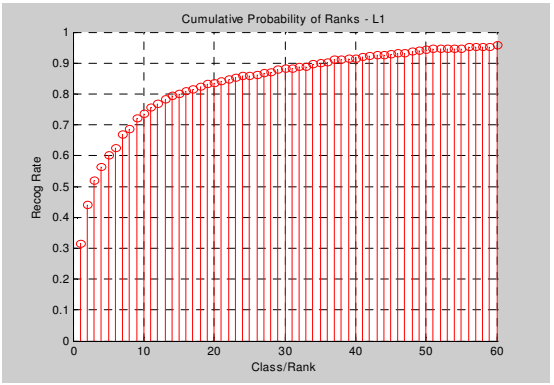

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

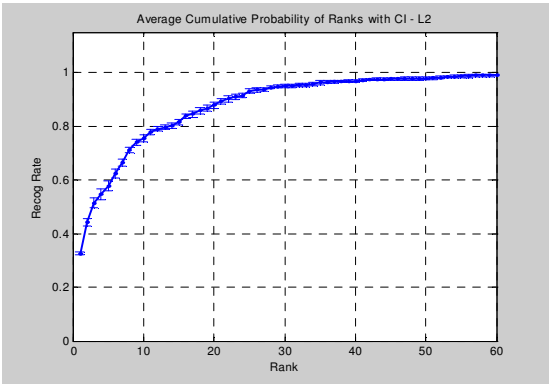

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

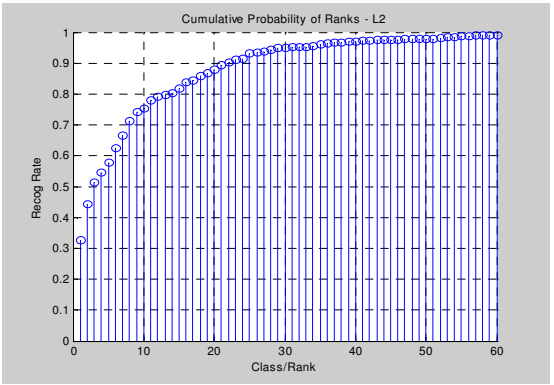

Average Cumulative Probability of Top 2 Distance Measures L2 & Cos
Recog Rate
Rank
L2
Cos

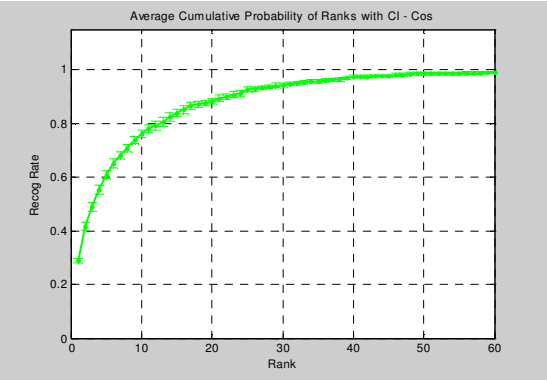
Polynomial

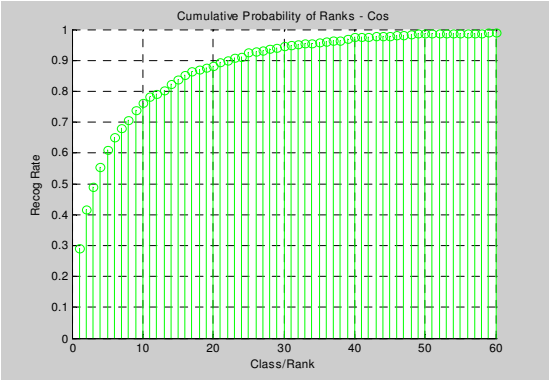

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

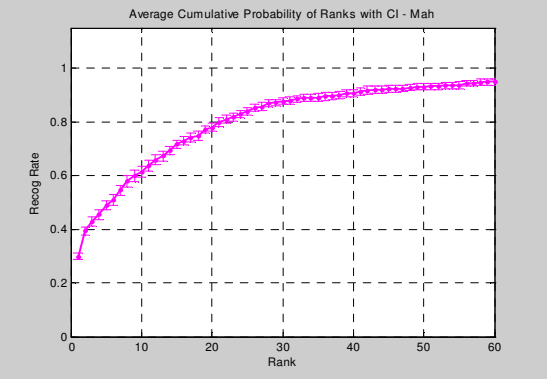

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

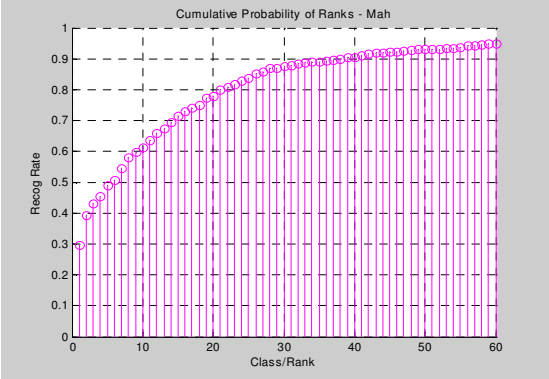

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

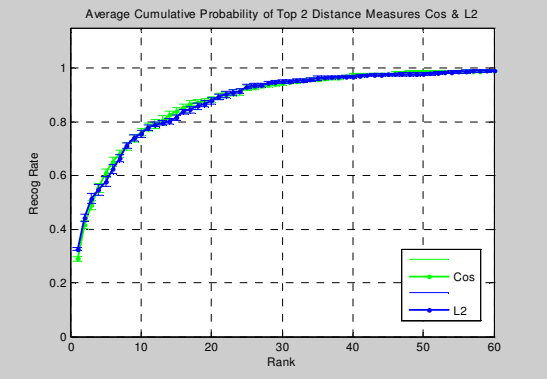

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

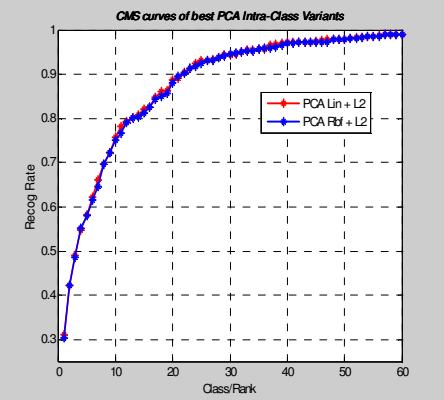

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

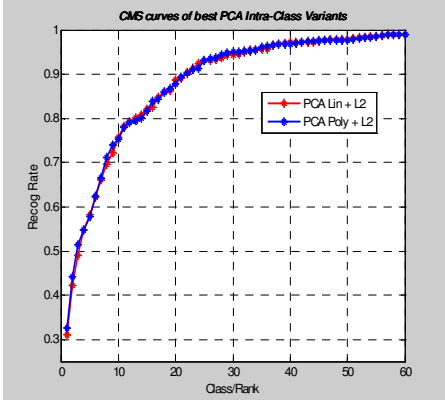

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

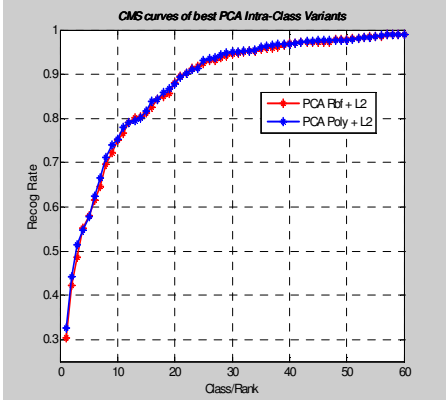

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

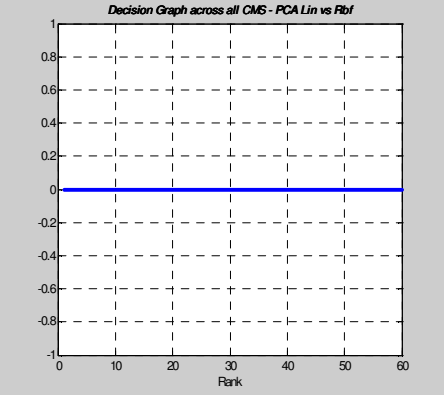

Average Cumulative Probability of Top 2 Distance Measures Cos & L2
Recog Rate
Rank
Cos
L2

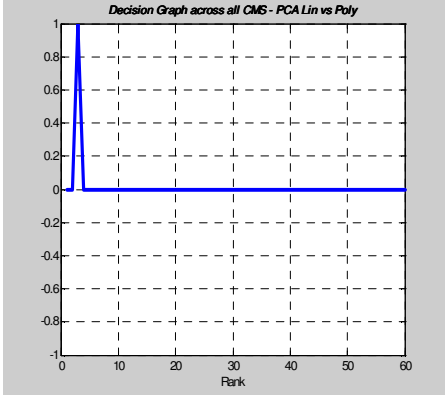
McNemar's Testing for the PCA class in category of Upper Occlusion

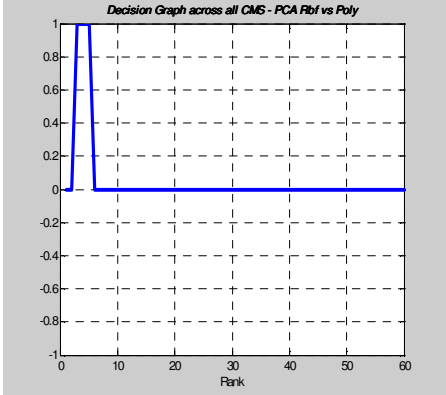


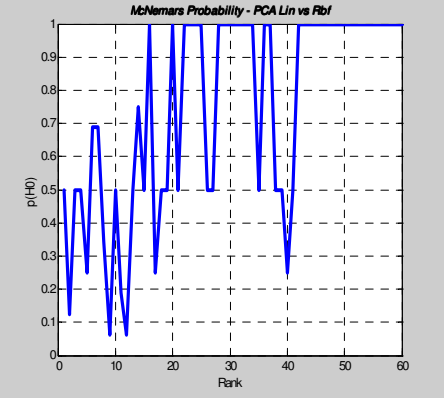


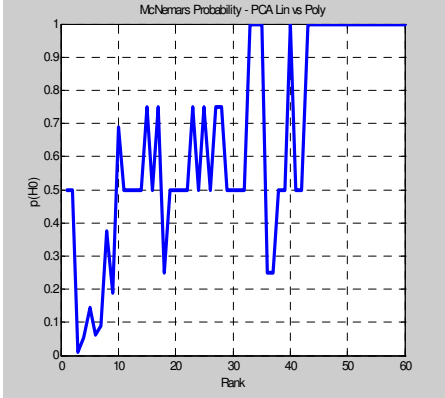


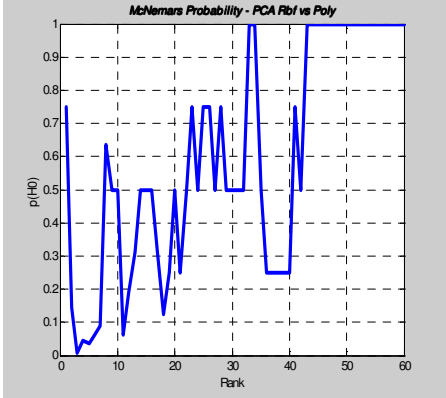








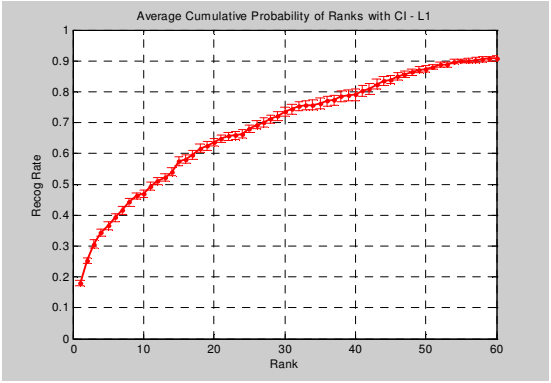


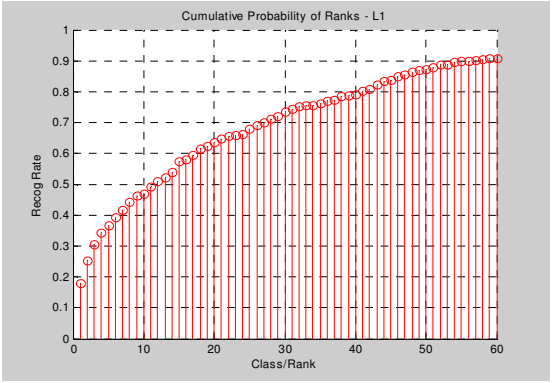


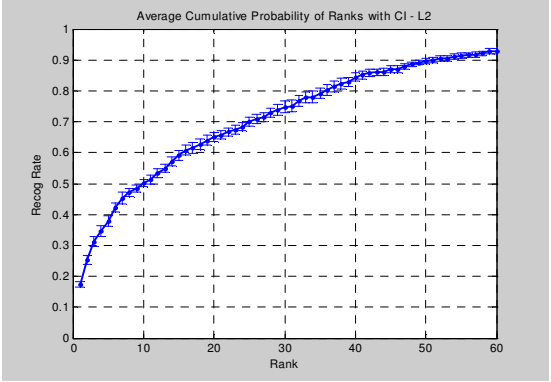
LDA

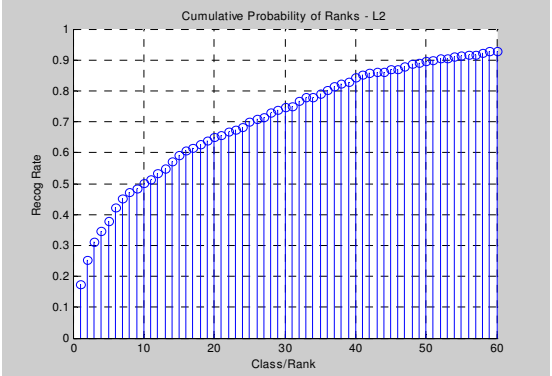
Confidence Interval & Stem plots

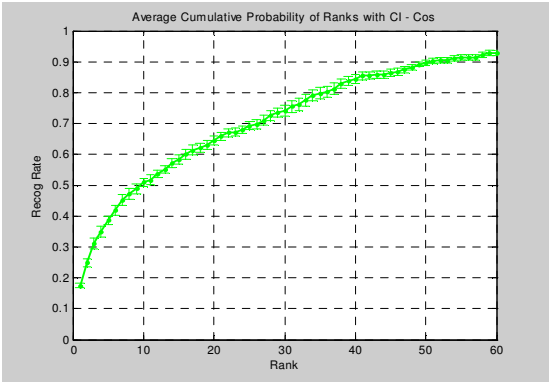
Linear

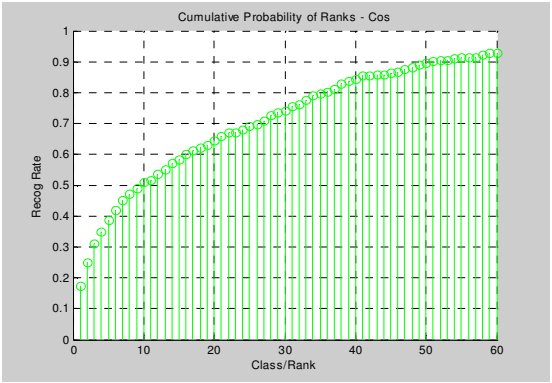


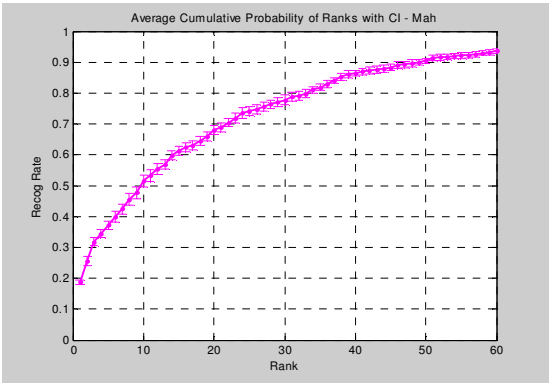


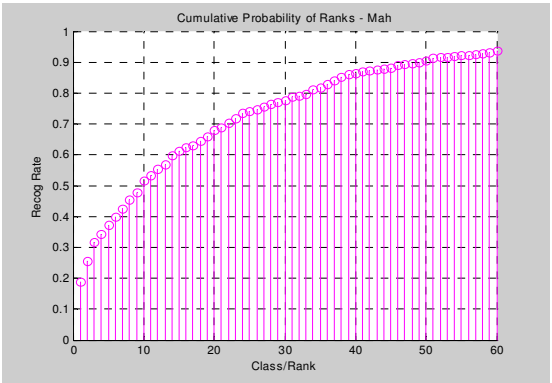


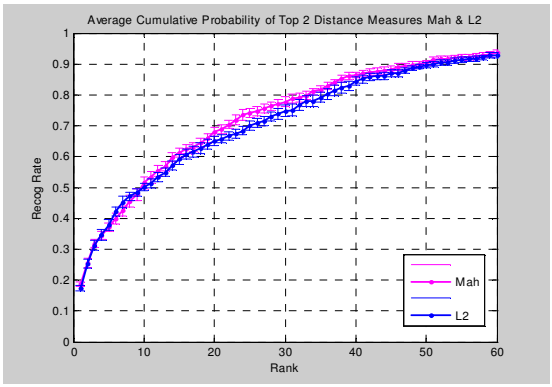




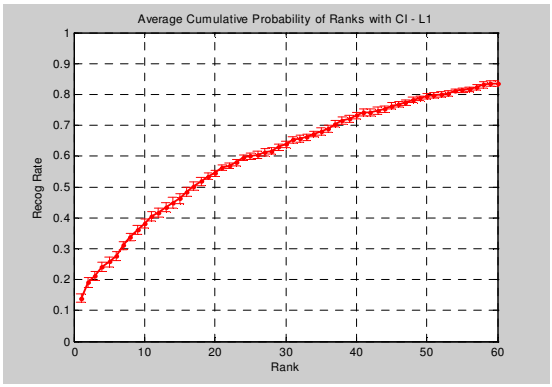


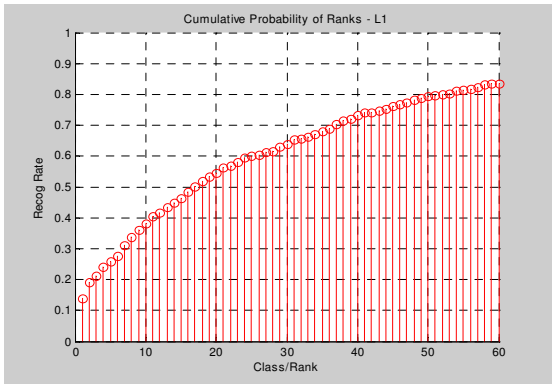


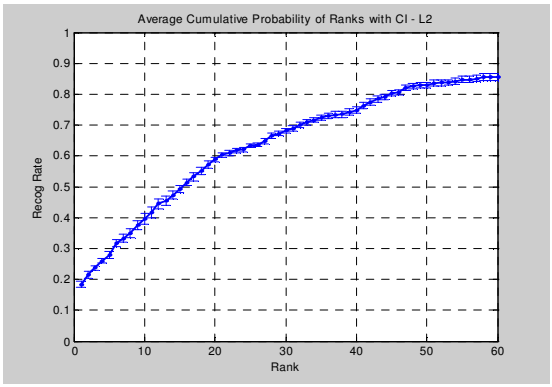


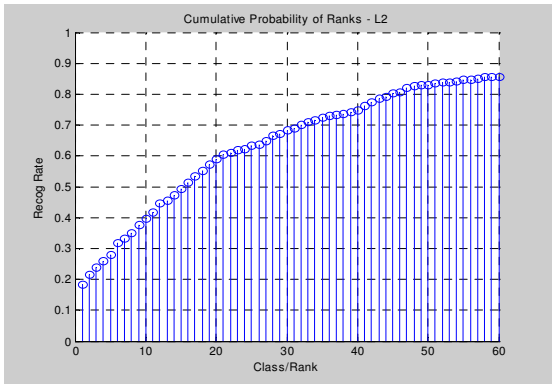

Average Cumulative Probability of Top 2 Distance Measures Mah & L2
Recog Rate
Rank
Mah
L2

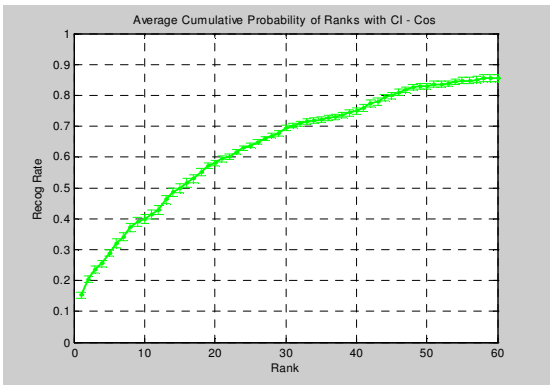
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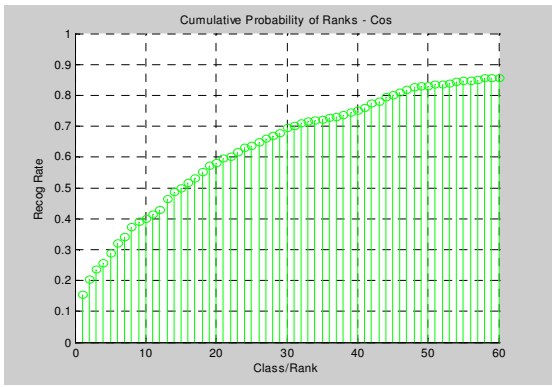

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

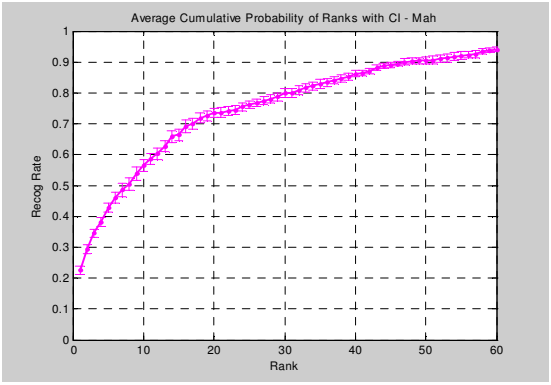

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

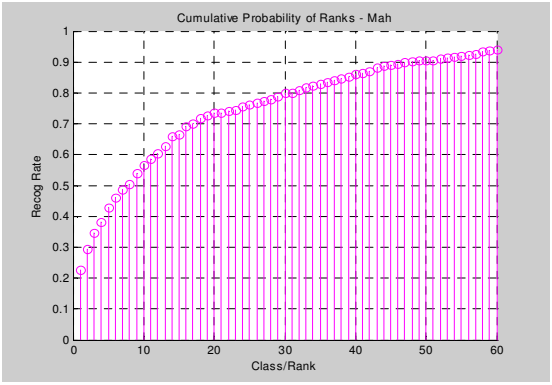

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

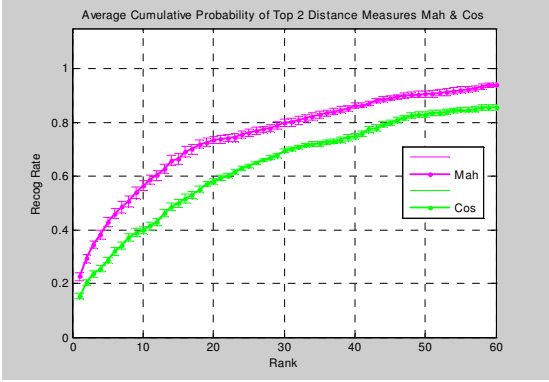

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

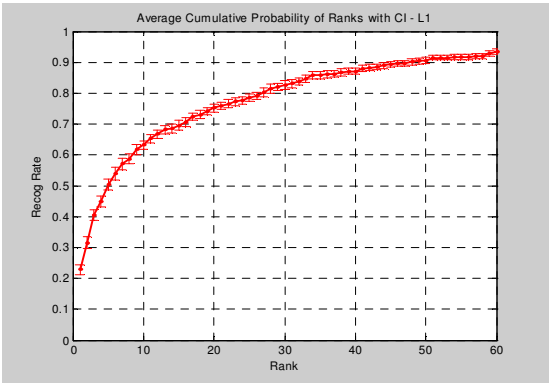

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

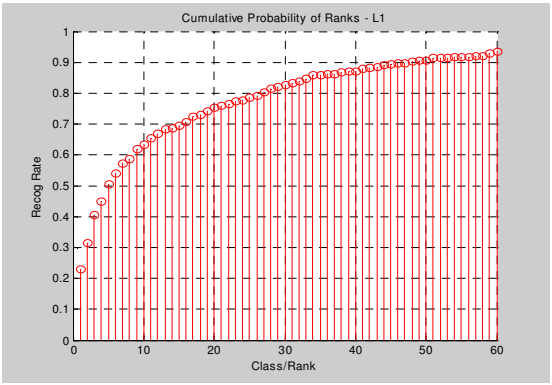

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

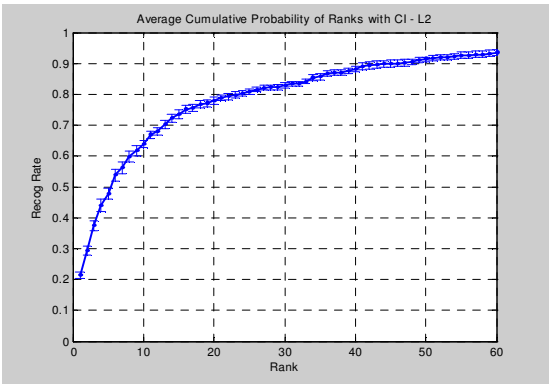

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

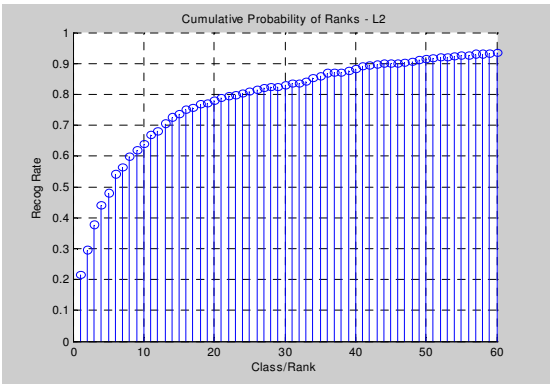

Average Cumulative Probability of Top 2 Distance Measures Mah & Cos
Recog Rate
Rank
Mah
Cos

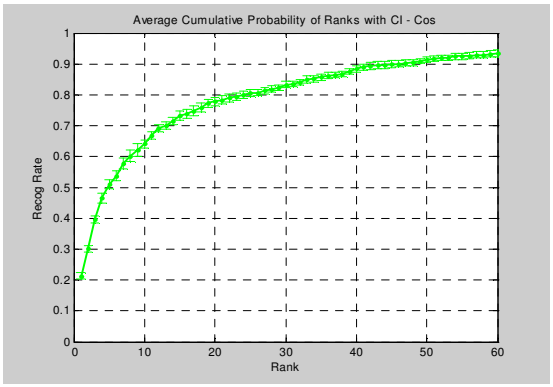
Polynomial

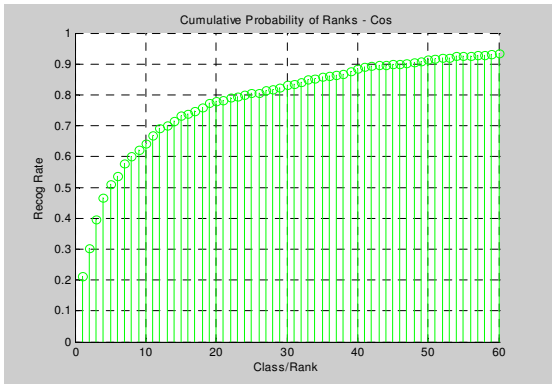

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

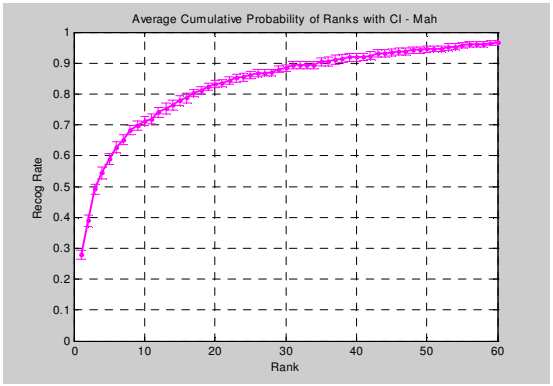

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

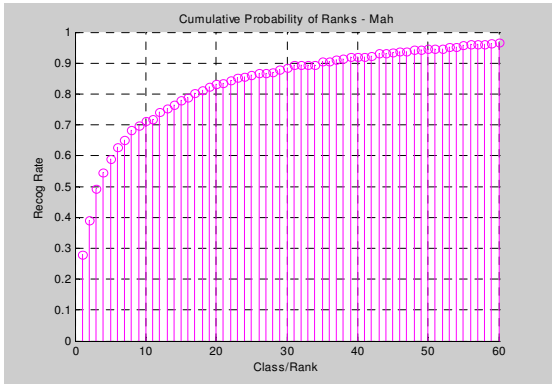

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

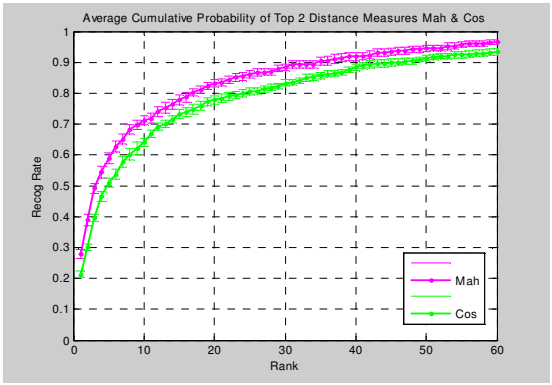

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

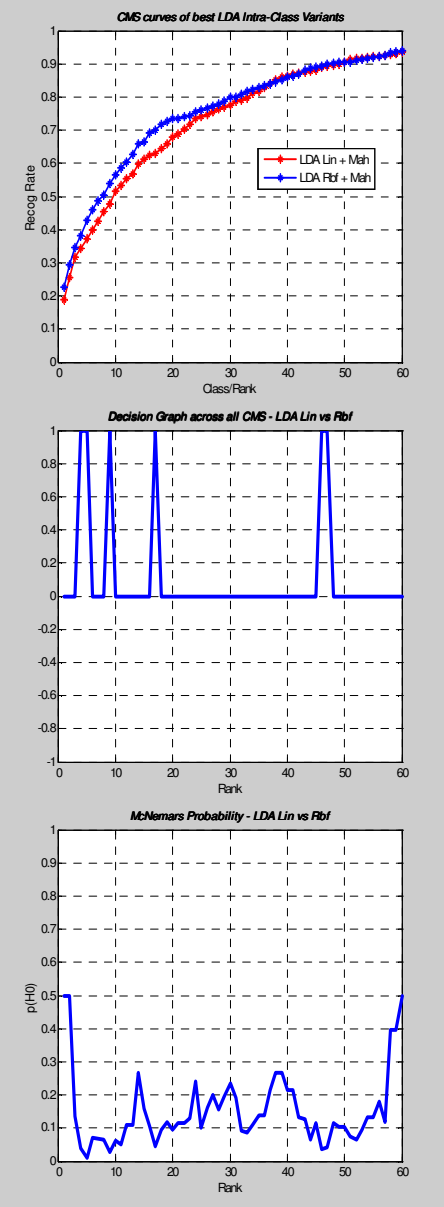

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

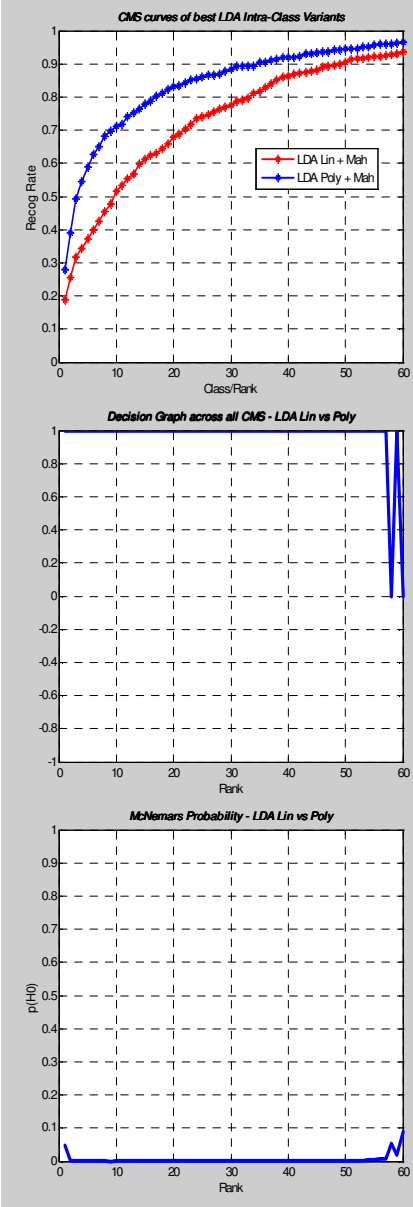

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

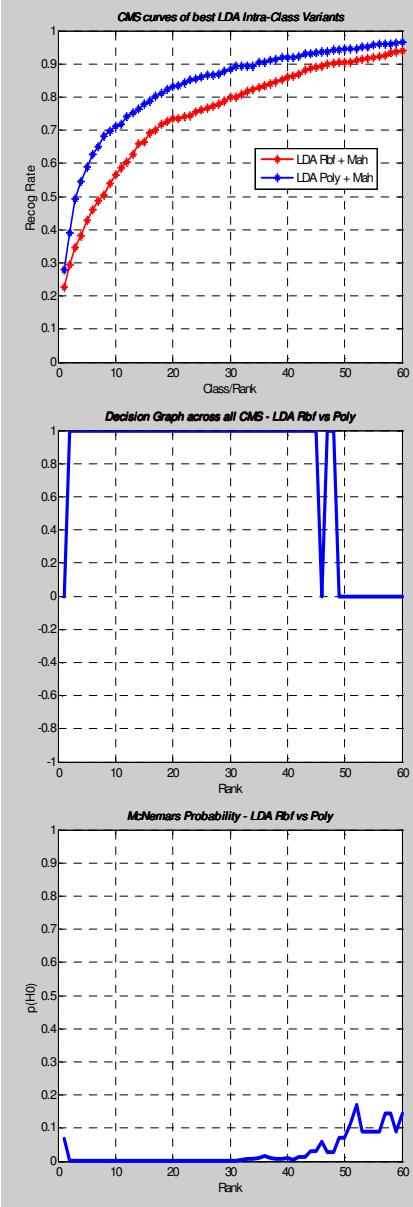

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank


Average Cumulative Probability of Top 2 Distance Measures Mah & Cos
Recog Rate
Rank
Mah
Cos

McNemar's Testing for the LDA class in category of Upper Occlusion



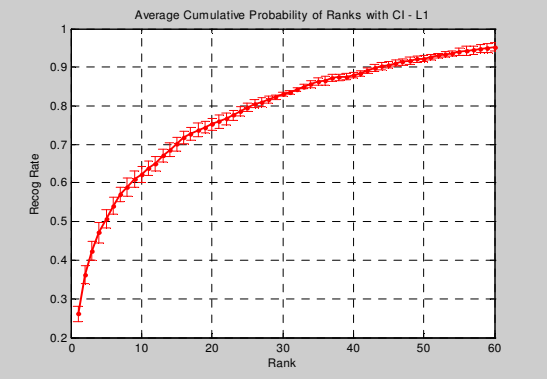


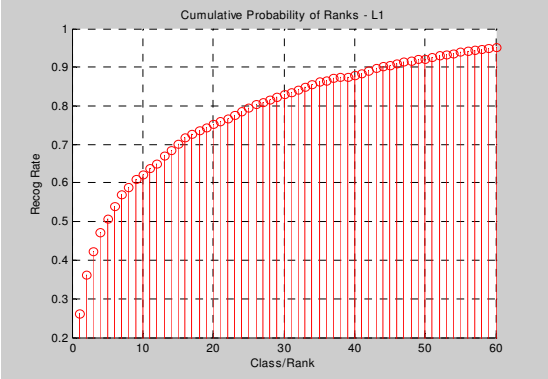


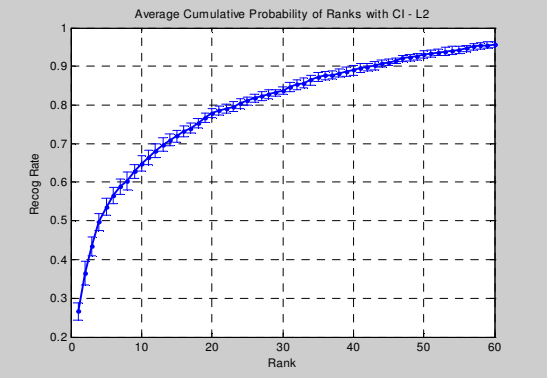
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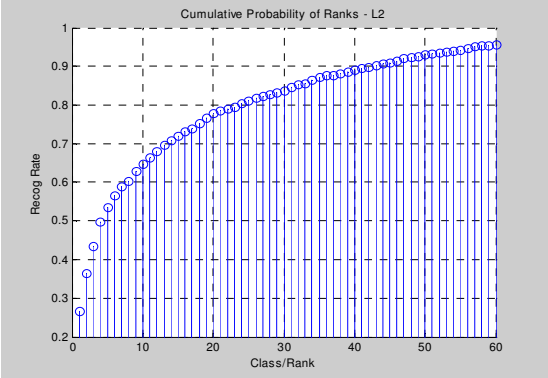
Confidence Interval & Stem plots

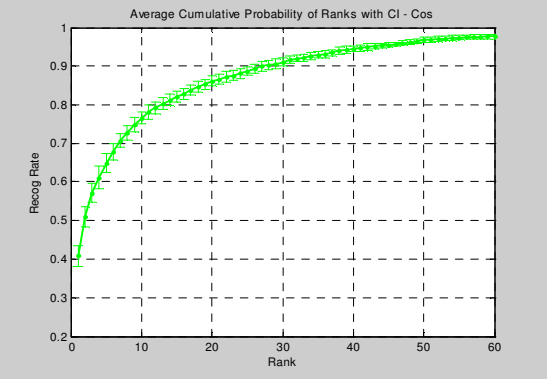
InfoMax Architecture I

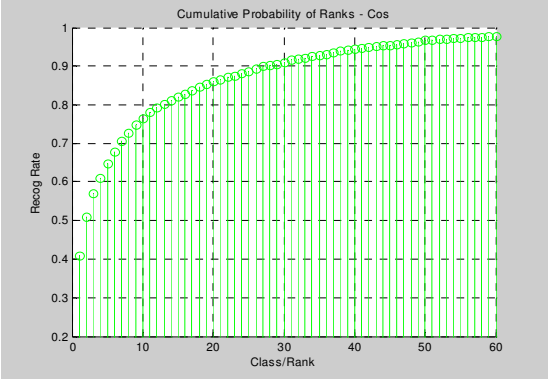


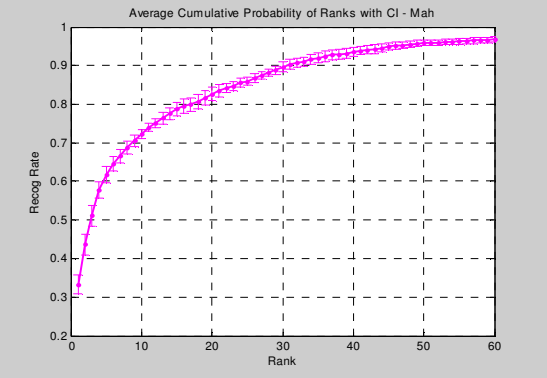


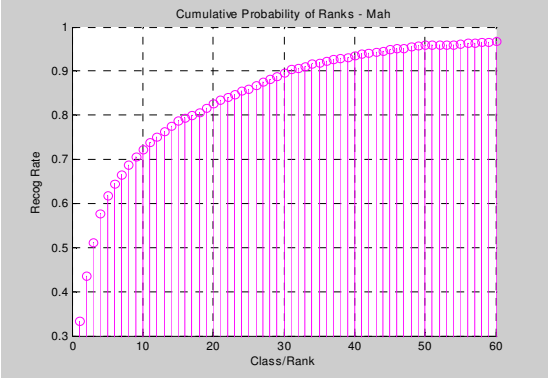


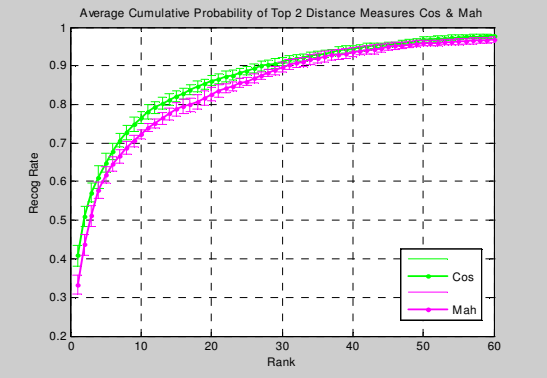




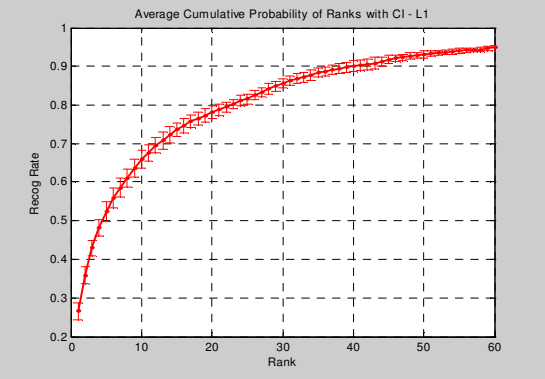


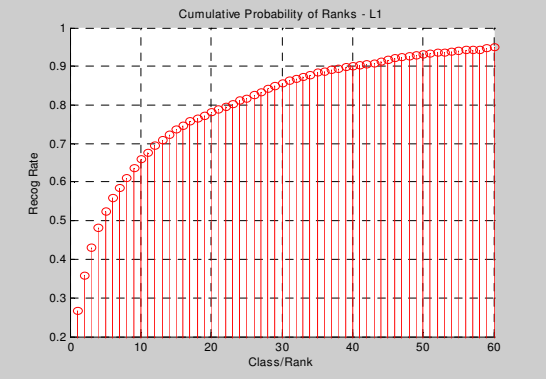


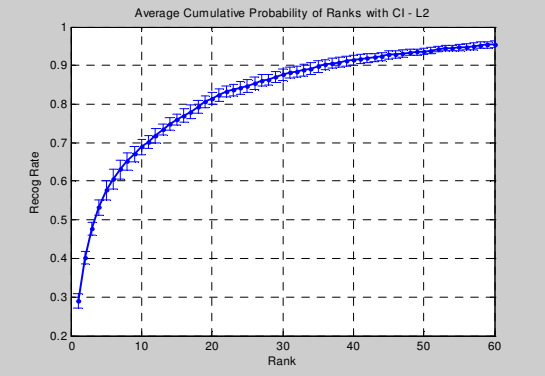


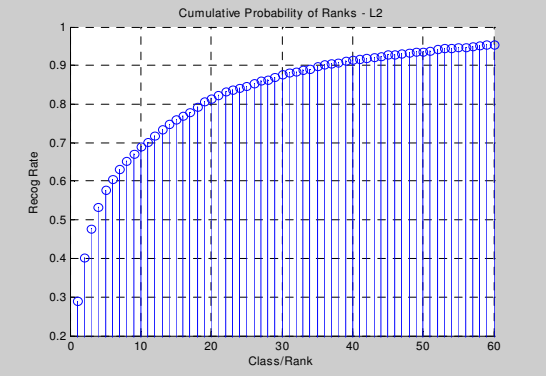


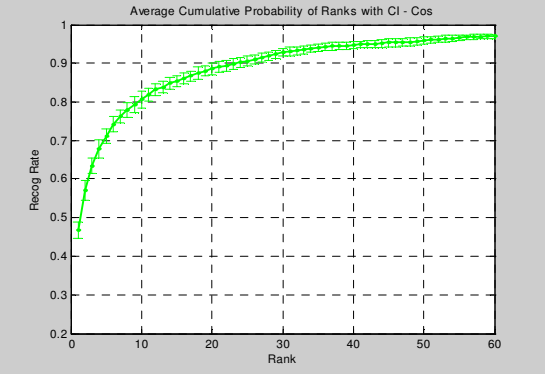
InfoMax Architecture II

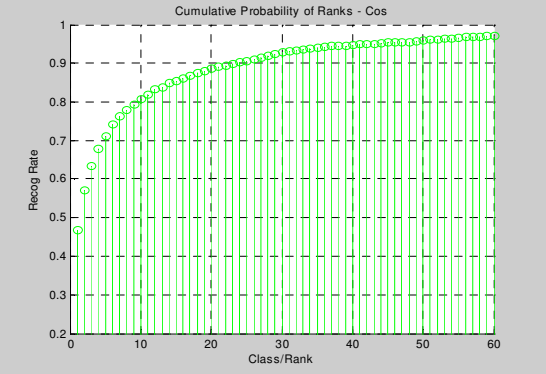


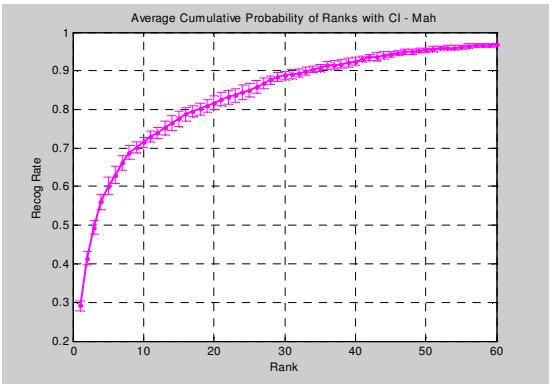


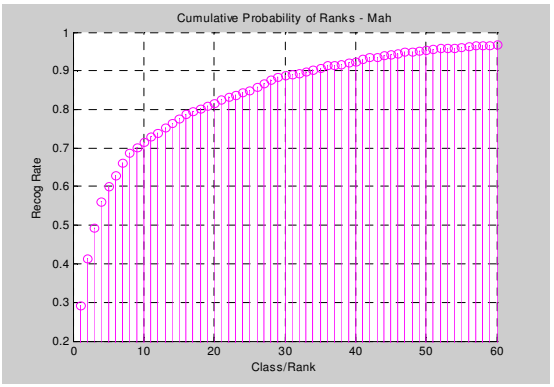


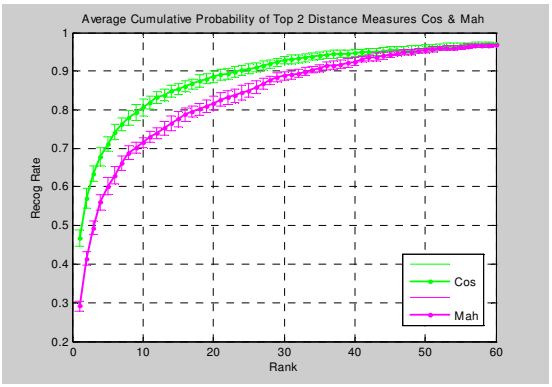




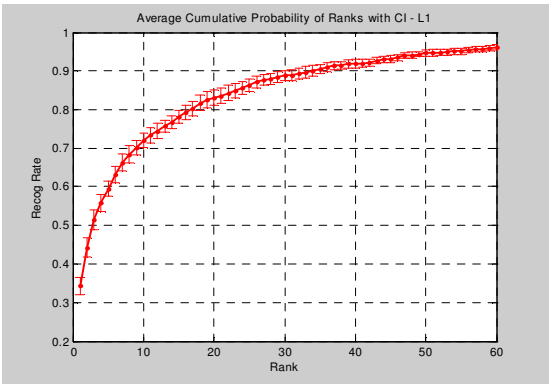


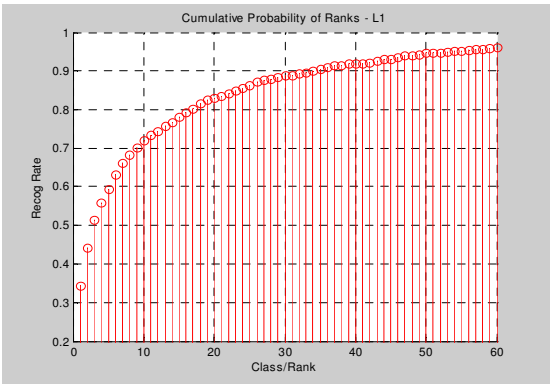


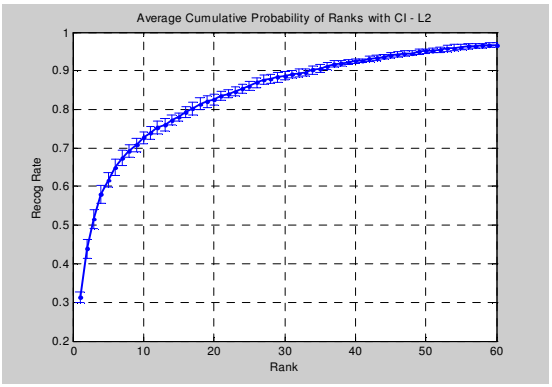


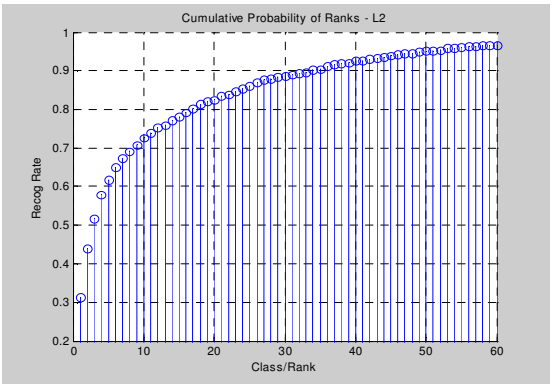


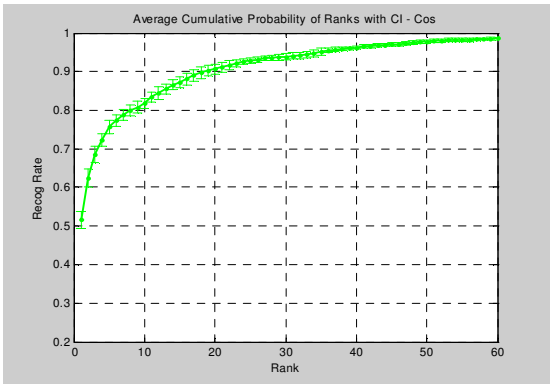
FastICA Architecture I

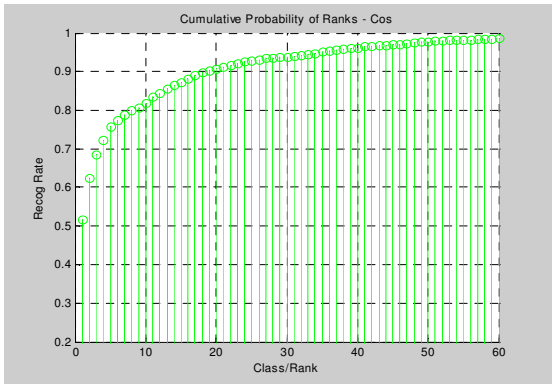


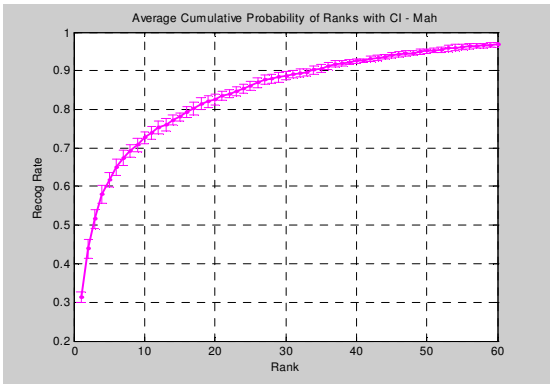


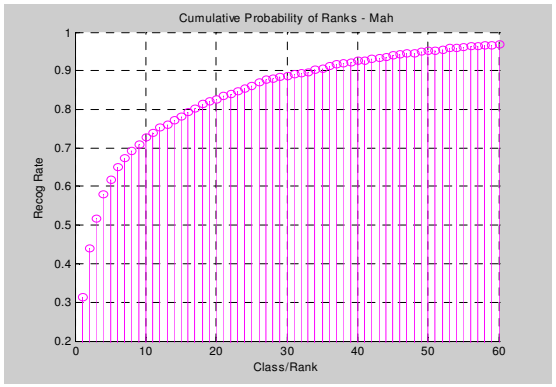


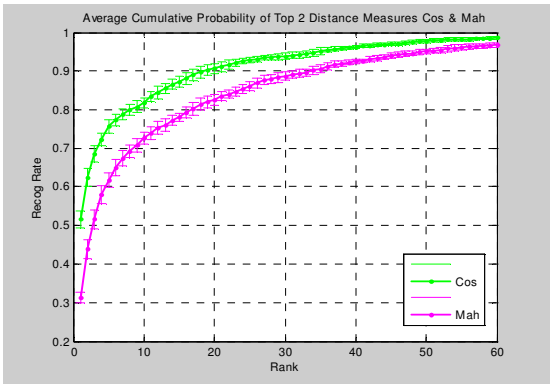




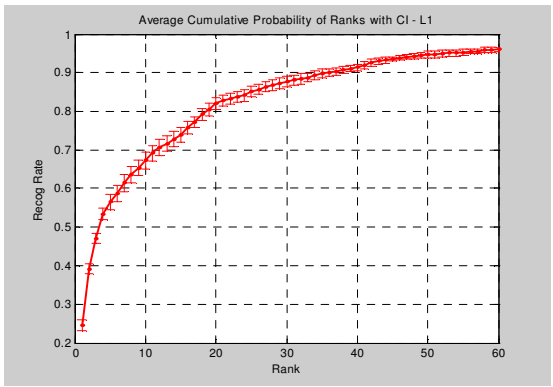


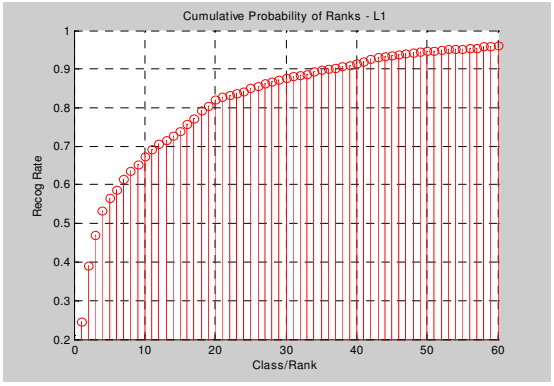


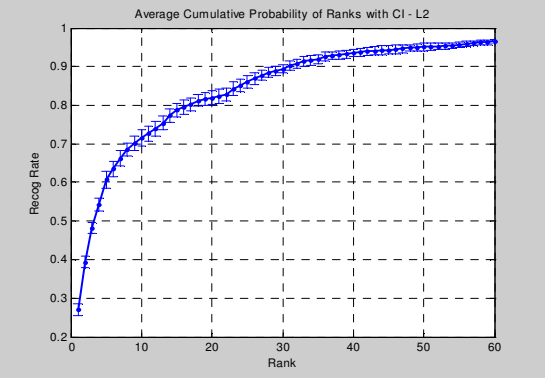


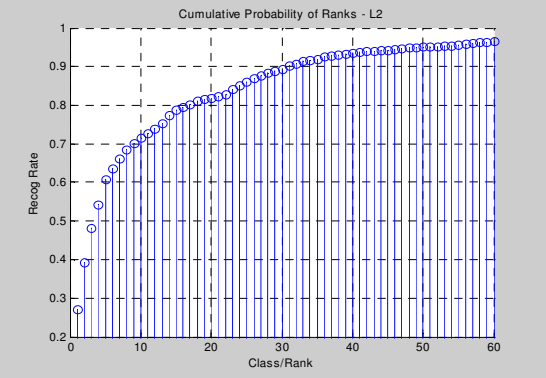


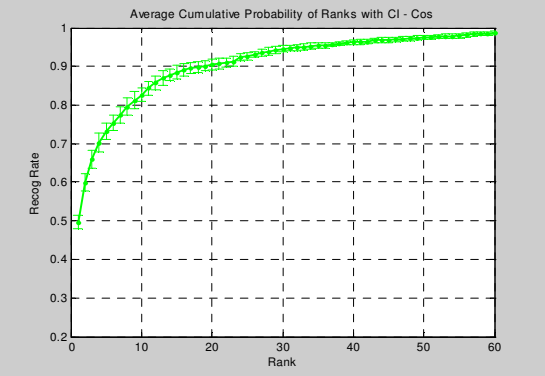
FastICA Architecture I
I

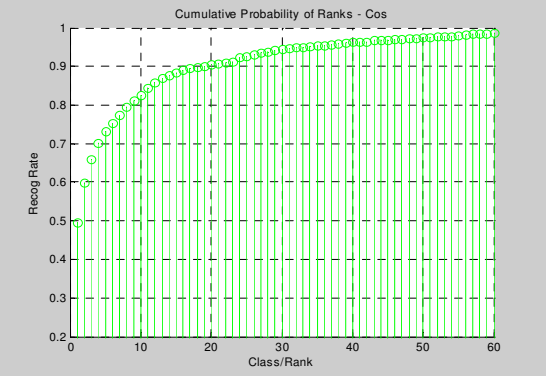


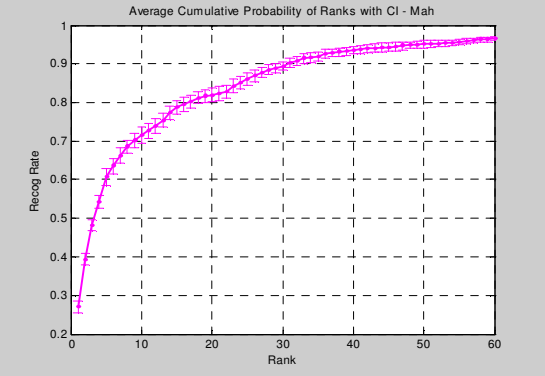


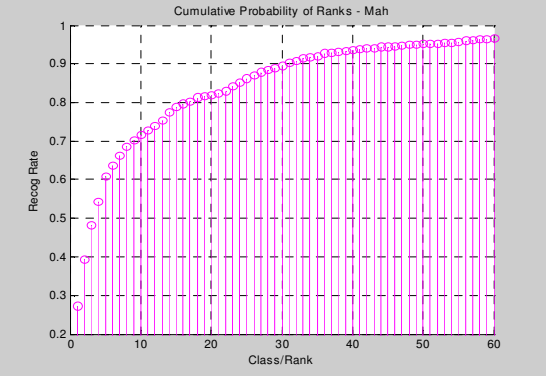

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

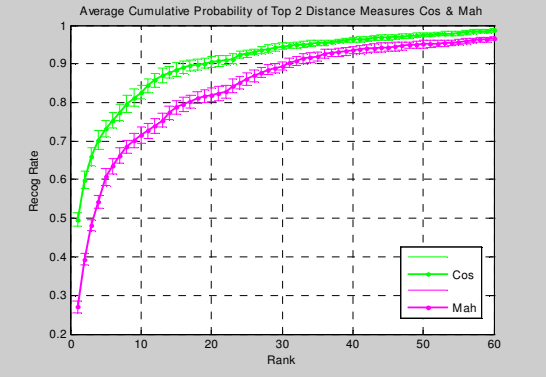

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

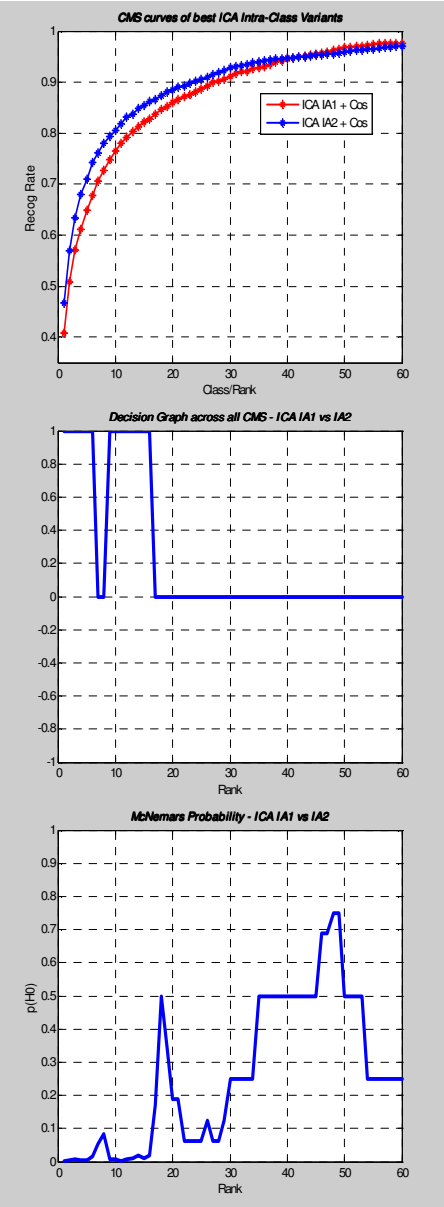

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

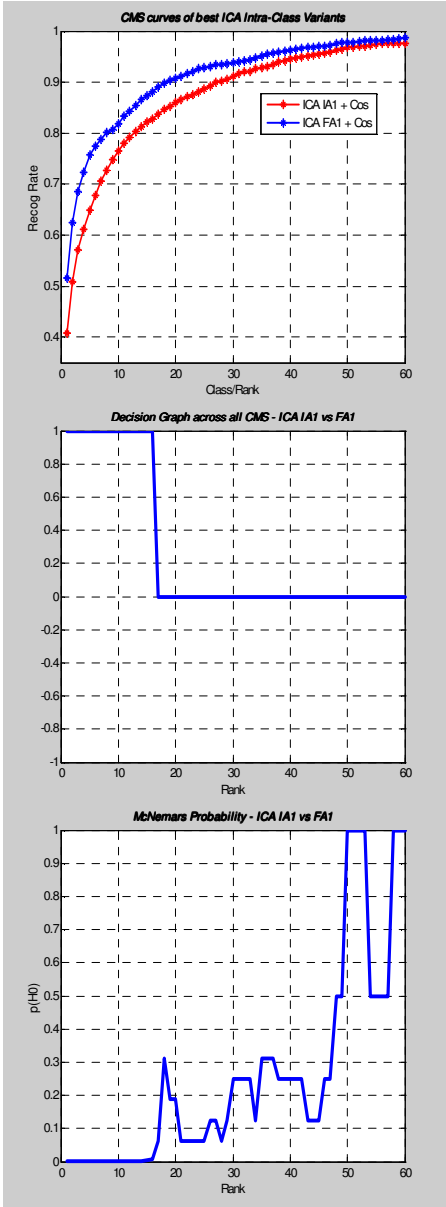

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

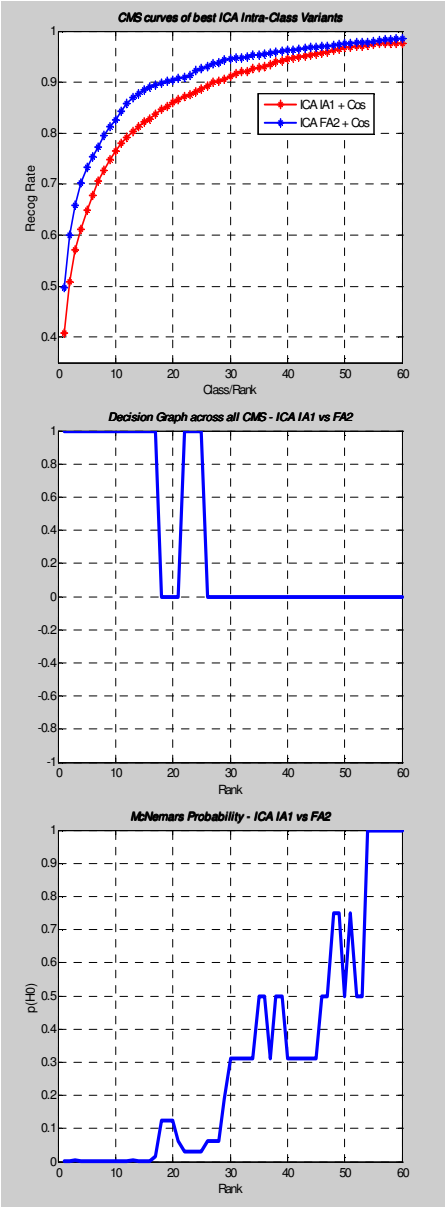

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

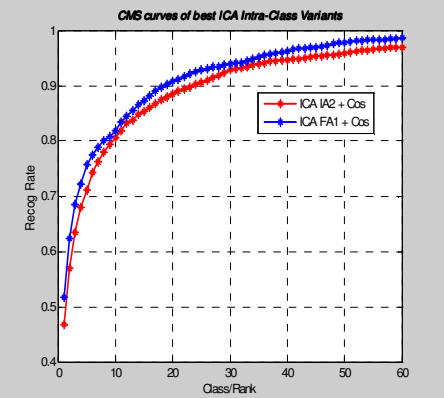

Average Cumulative Probability of Top 2 Distance Measures Cos & Mah
Recog Rate
Rank
Cos
Mah

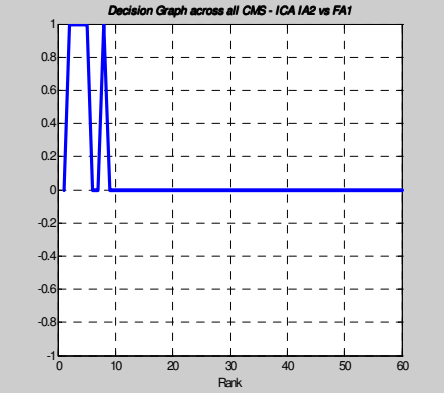
McNemar's Testing for the ICA class in category of Upper Occlusion

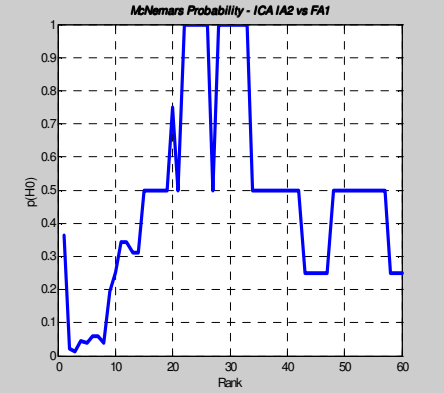


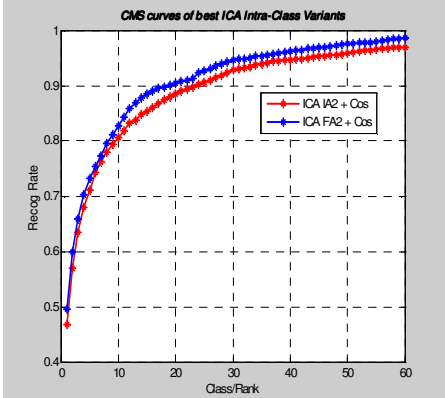


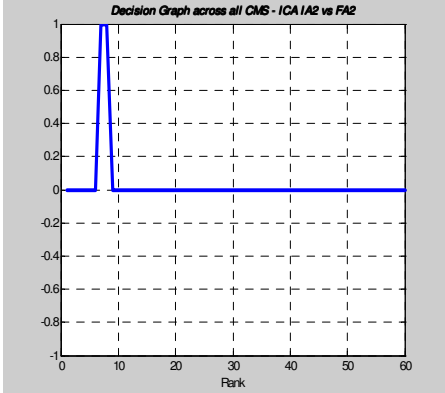


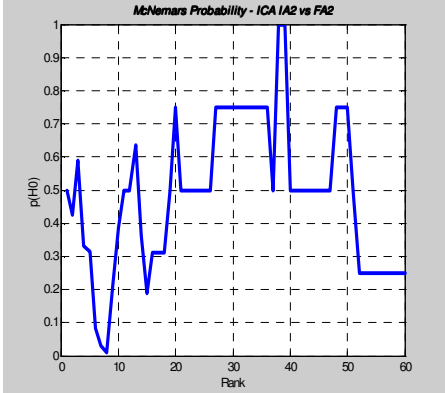

CMS curves of best ICA Intra-Class Variants
ICA IA2 + Cos
ICA FA1 + Cos
Recog Rate
Class/Rank

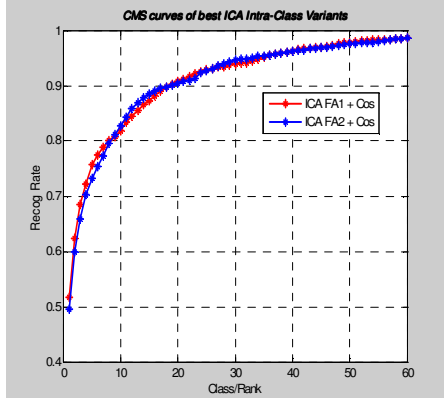

Decision Graph across all CMS - ICA IA2 vs FA1
Rank

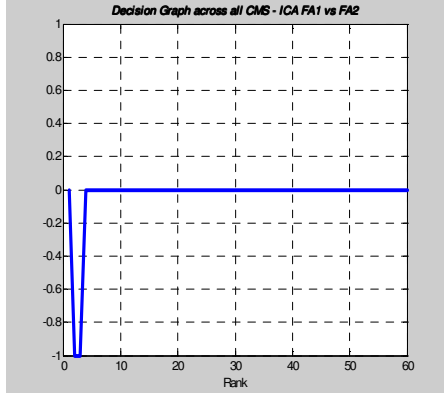

McNemars Probability - ICA IA2 vs FA1
p(H0)
Rank

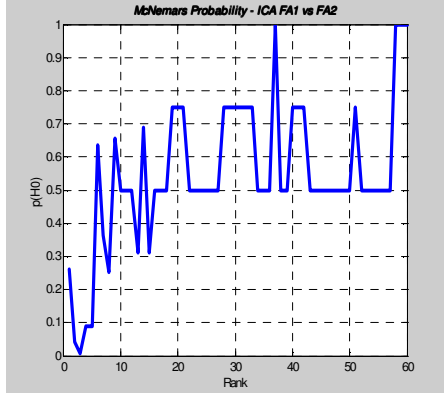

CMS curves of best ICA Intra-Class Variants
ICA IA2 + Cos
ICA FA2 + Cos
Recog Rate
Class/Rank


Decision Graph across all CMS - ICA IA2 vs FA2
Rank


McNemars Probability - ICA IA2 vs FA2
p(H0)
Rank


CMS curves of best ICA Intra-Class Variants
ICA FA1 + Cos
ICA FA2 + Cos
Recog Rate
Class/Rank


Decision Graph across all CMS - ICA FA1 vs FA2
Rank

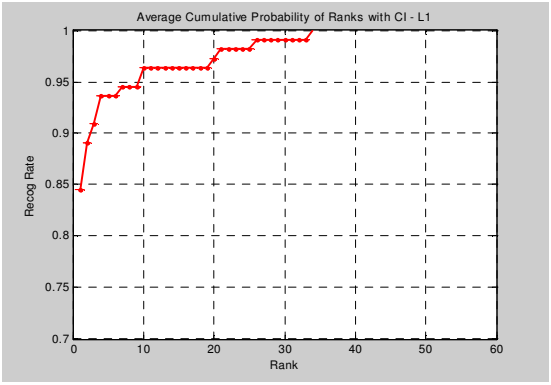

McNemars Probability - ICA FA1 vs FA2
p(H0)
Rank

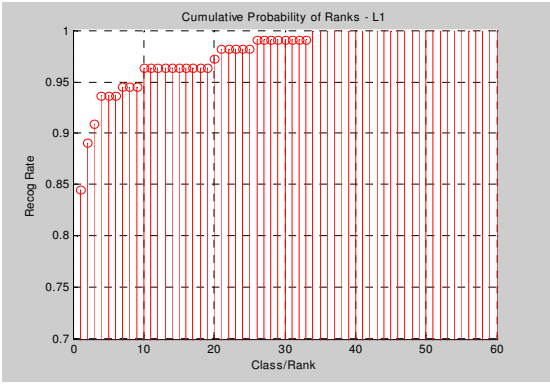
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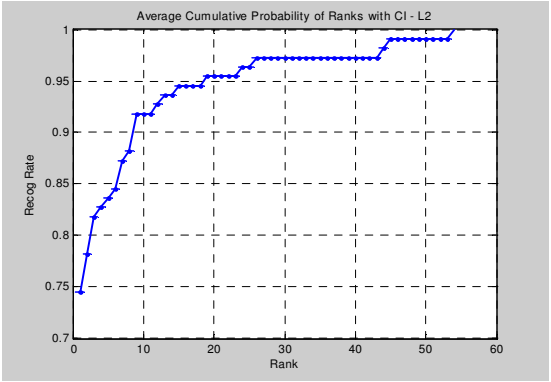
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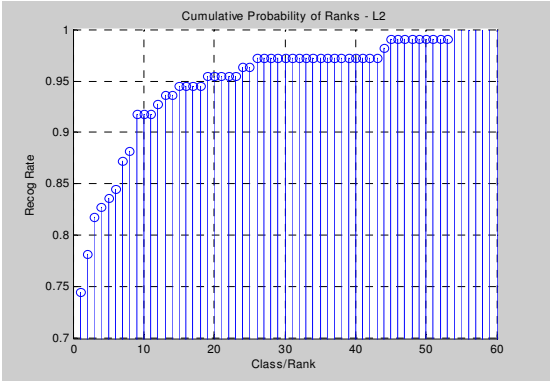
Confidence Interval & Stem plots

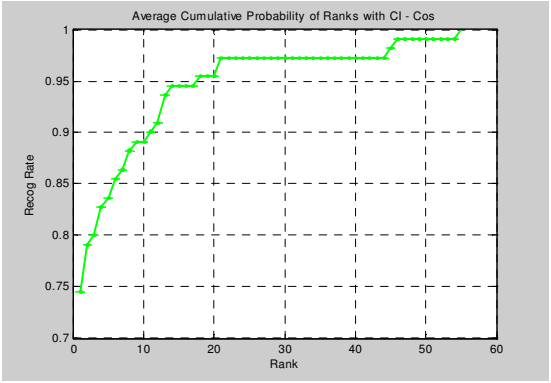
Linear

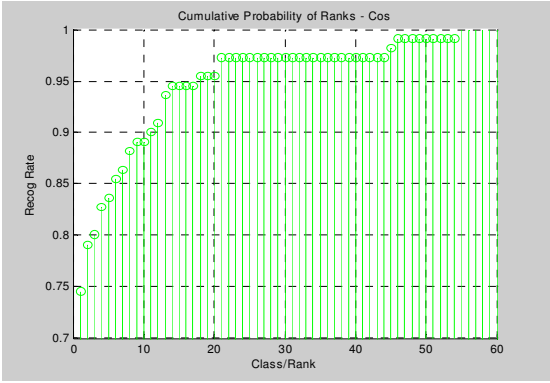


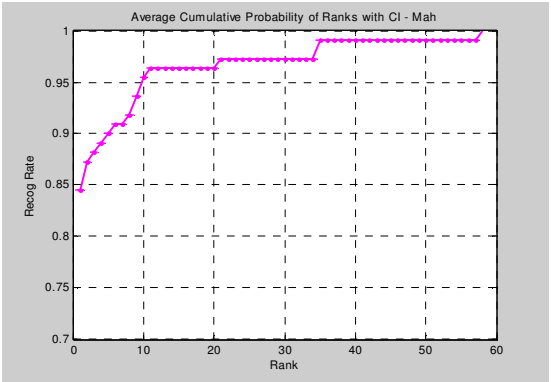


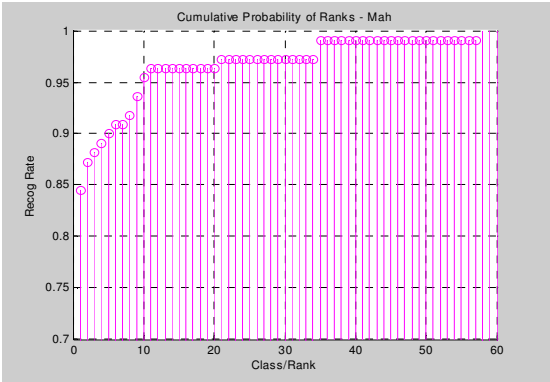


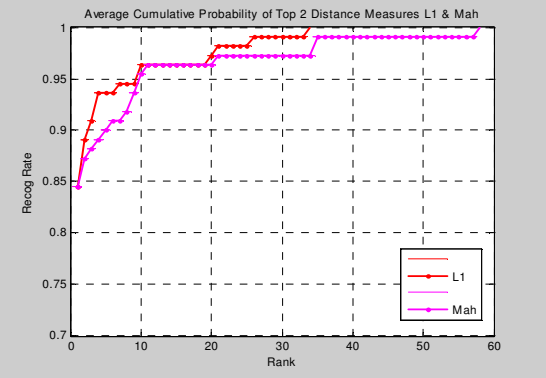




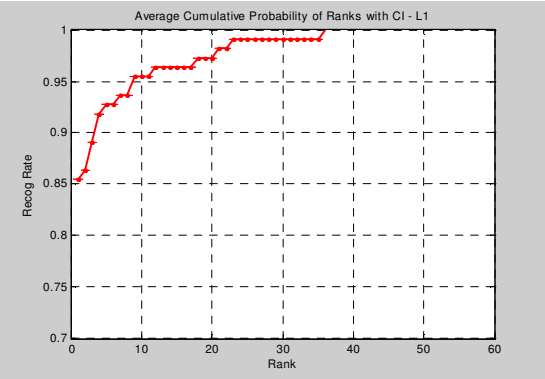


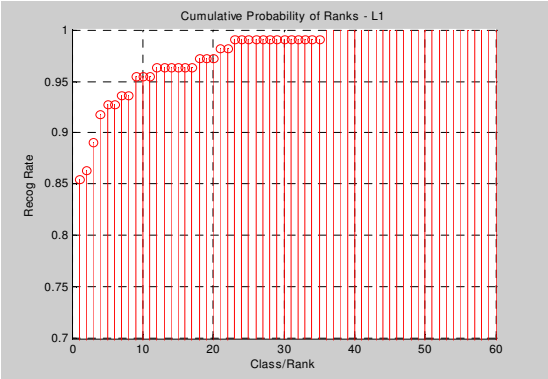


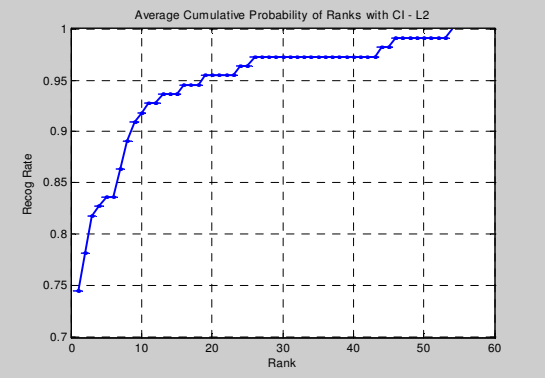


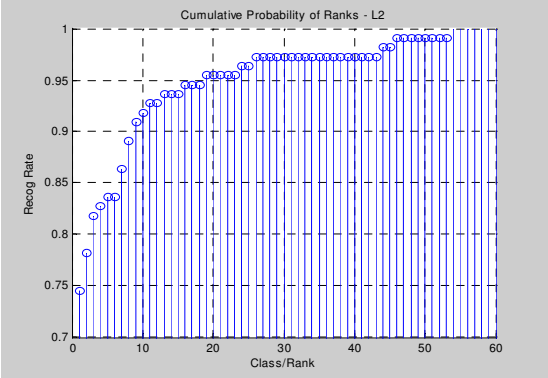

Average Cumulative Probability of Top 2 Distance Measures L1 & Mah
Recog Rate
Rank
L1
Mah

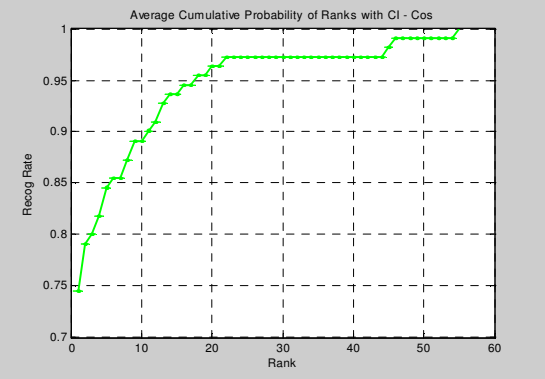
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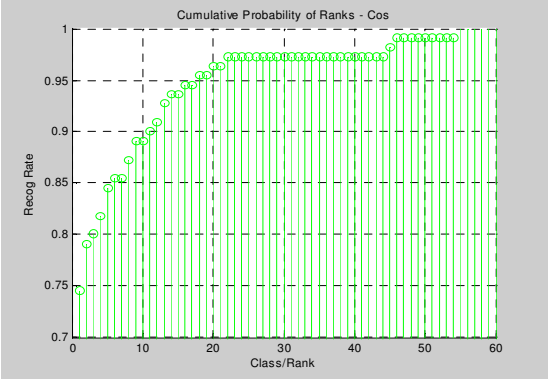

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

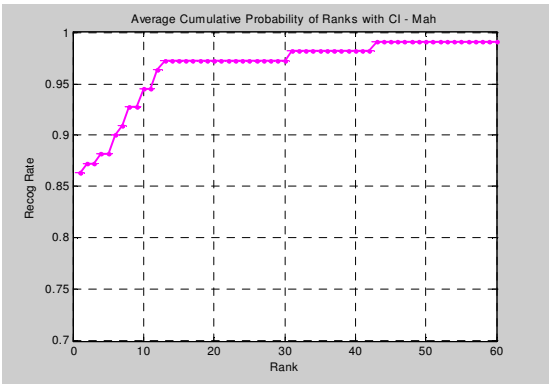

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

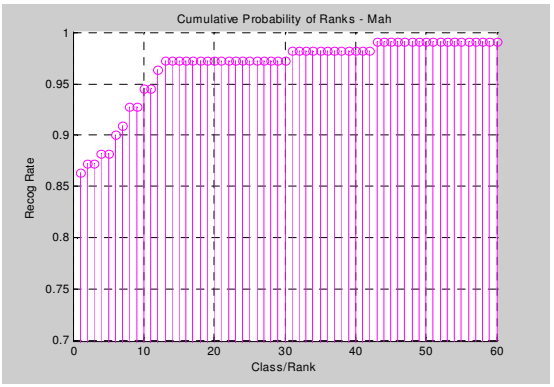

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

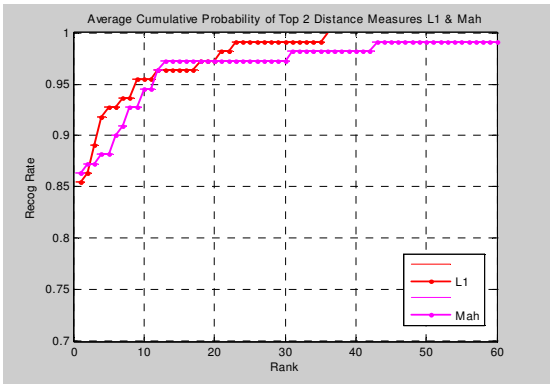

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

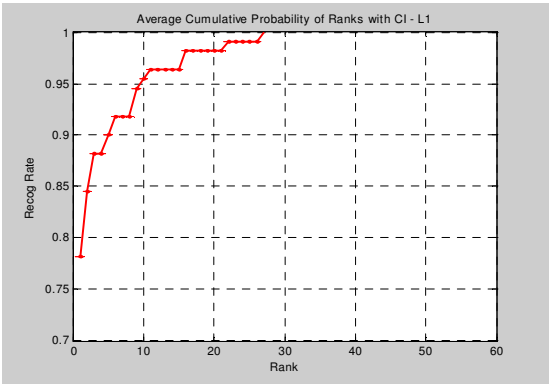

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

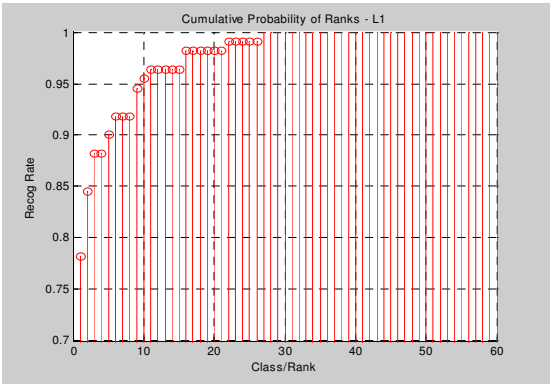

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

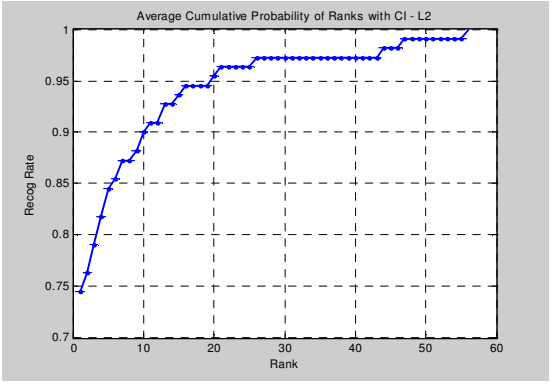

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

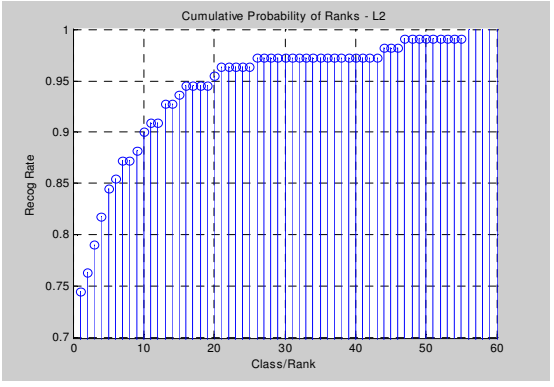

Average Cumulative Probability of Top 2 Distance Measures L1 & Mah
Recog Rate
Rank
L1
Mah

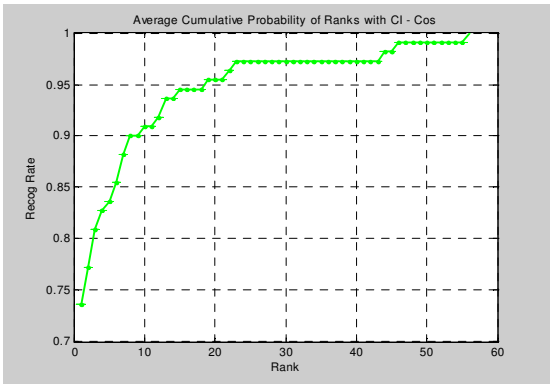
Polynomial

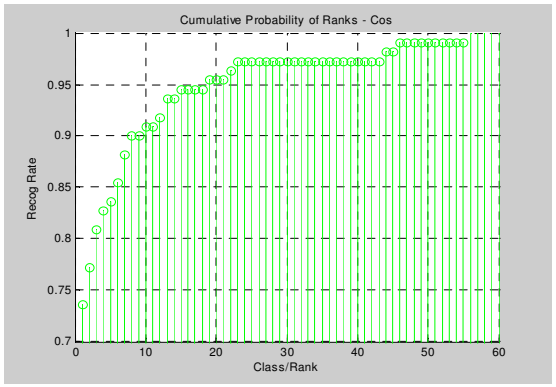

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

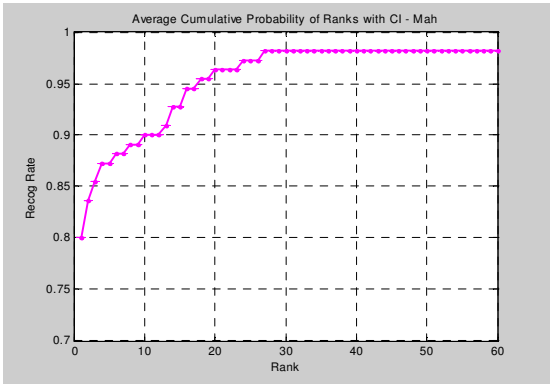

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

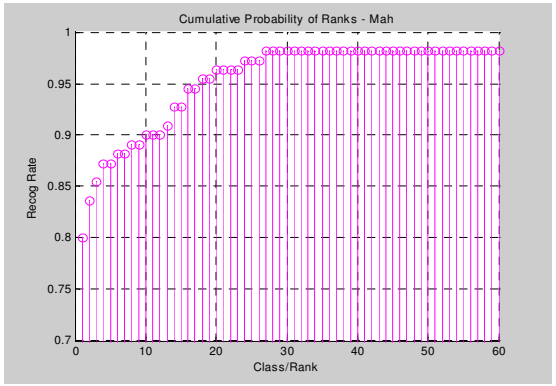

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

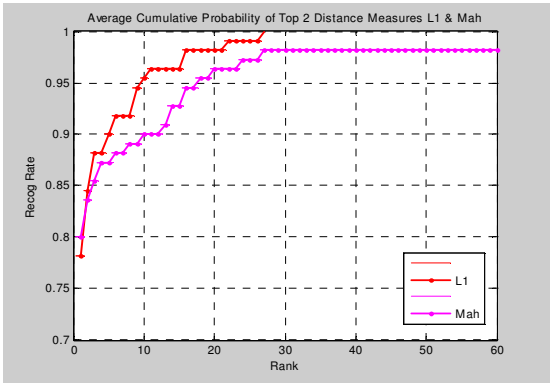

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

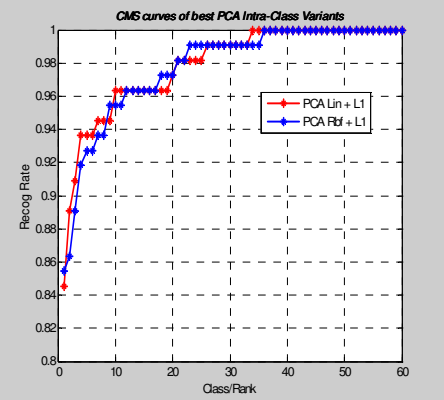

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

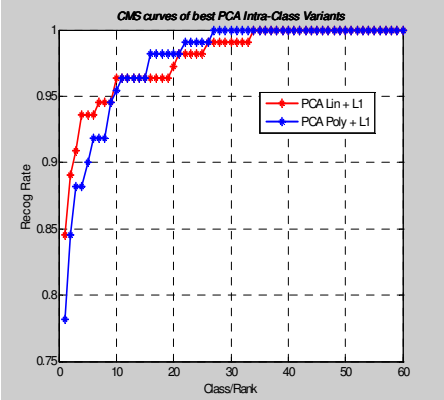

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

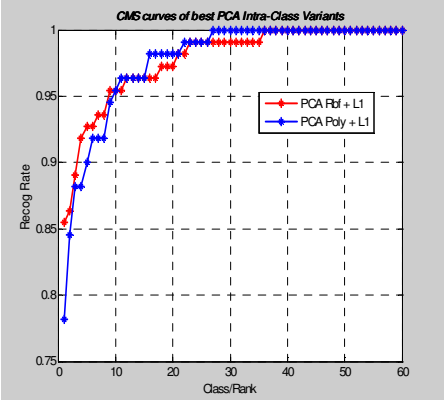

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

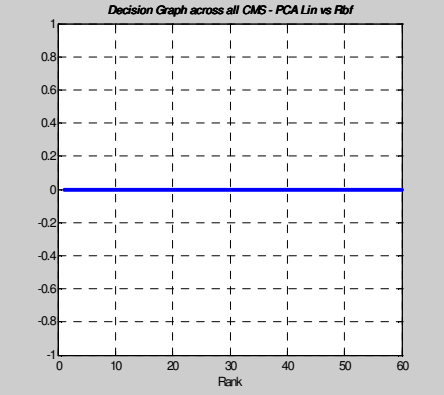

Average Cumulative Probability of Top 2 Distance Measures L1 & Mah
Recog Rate
Rank
L1
Mah

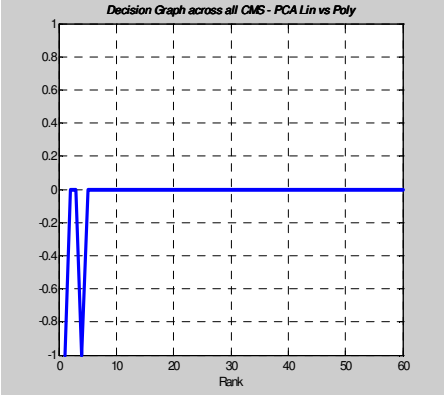
McNemar's Testing for the PCA class in category of Time Delay

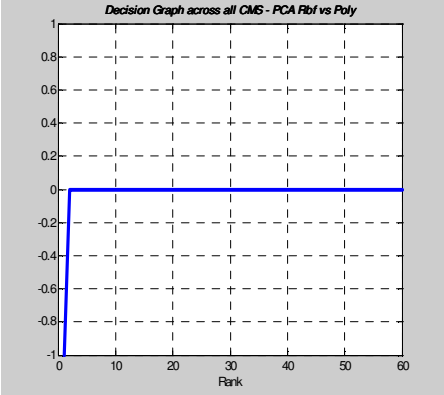


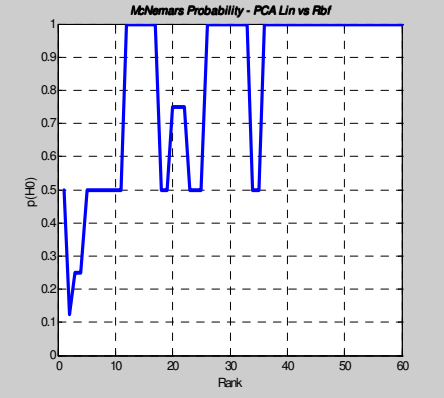


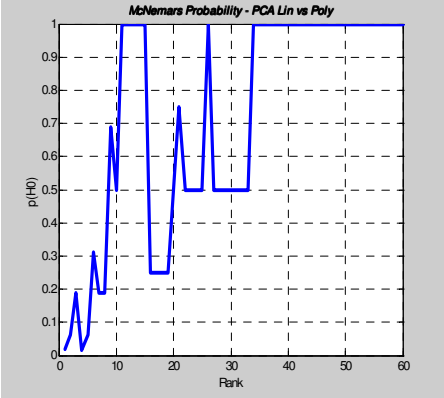


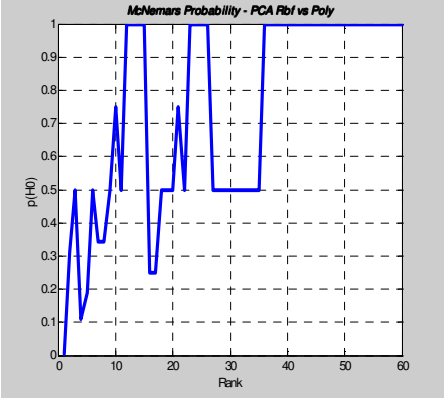








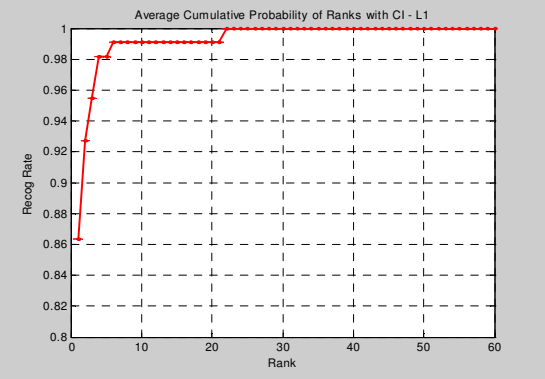


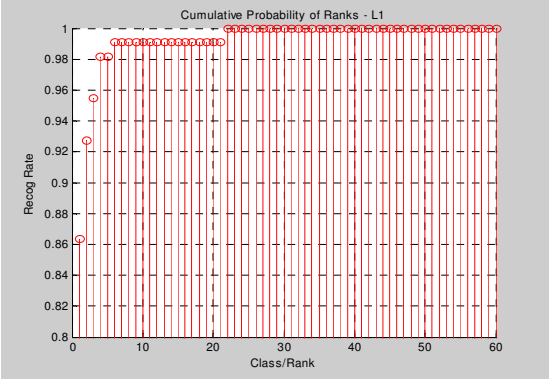


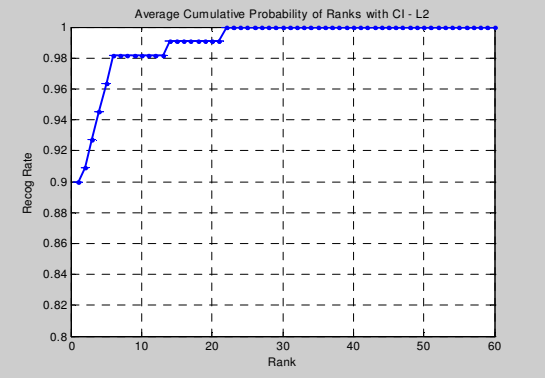
LDA

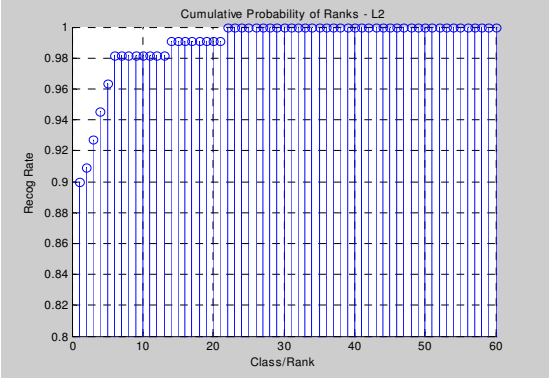
Confidence Interval & Stem plots

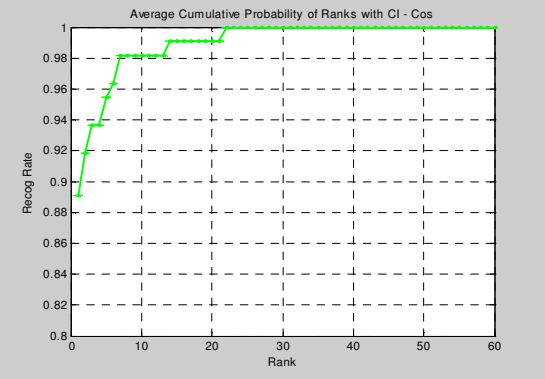
Linear

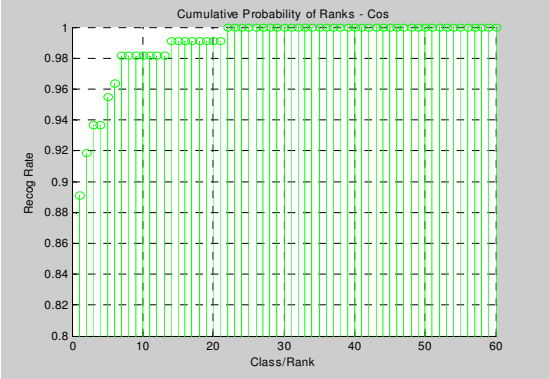


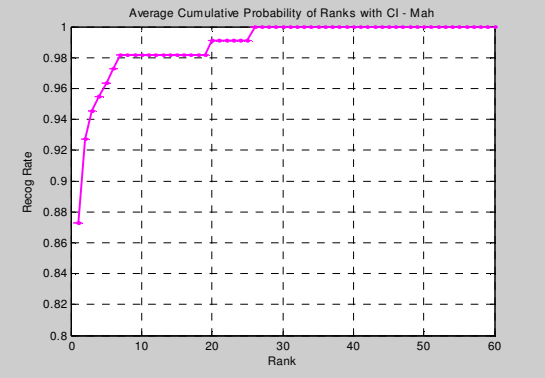


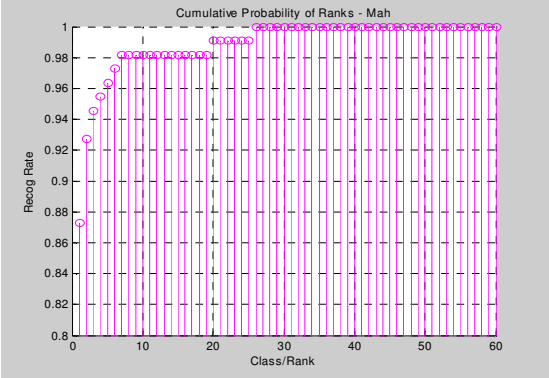


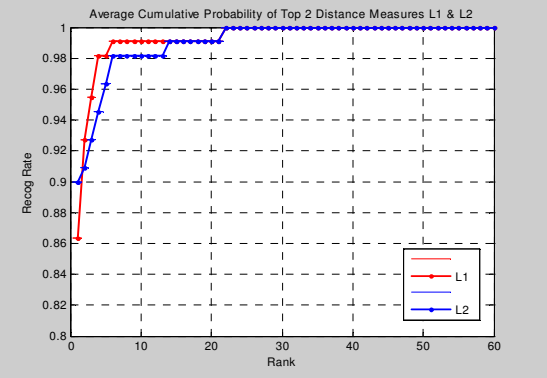




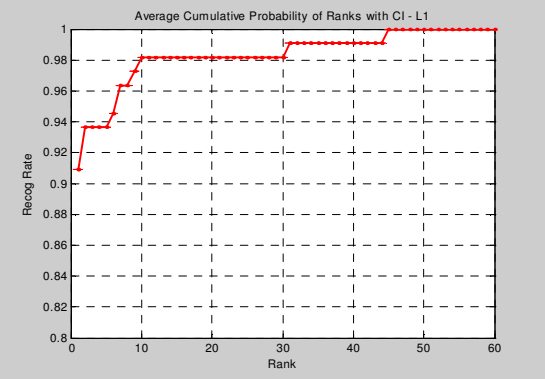


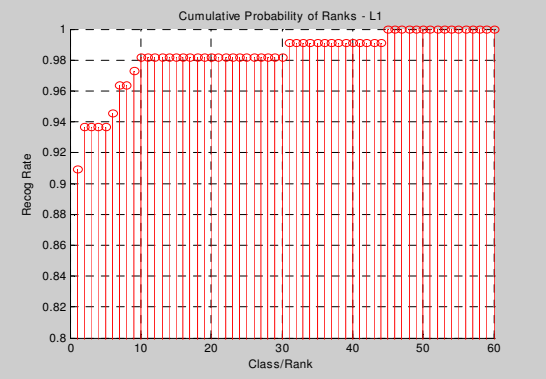


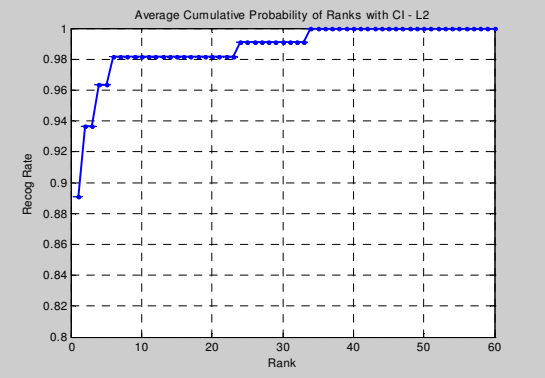


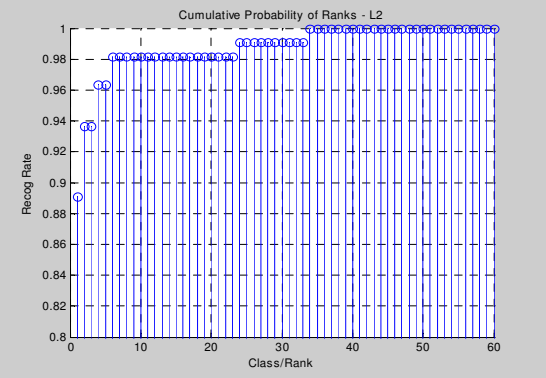

Average Cumulative Probability of Top 2 Distance Measures L1 & L2
Recog Rate
Rank
L1
L2

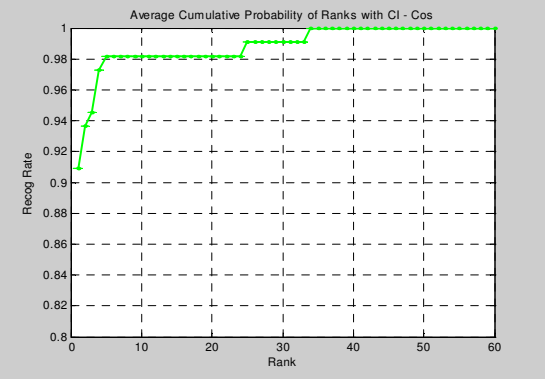
RBF

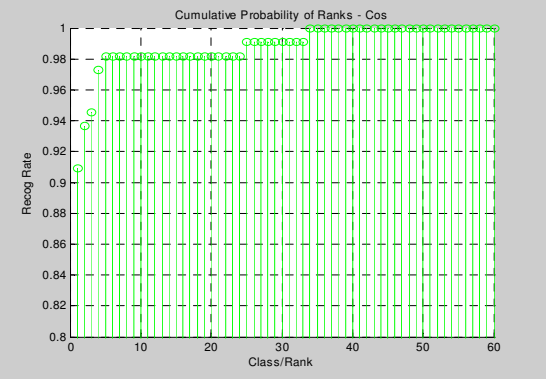

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

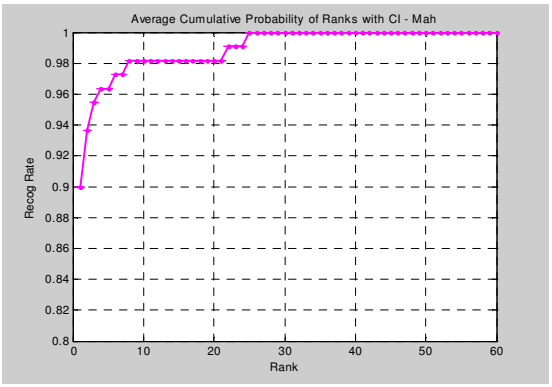

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

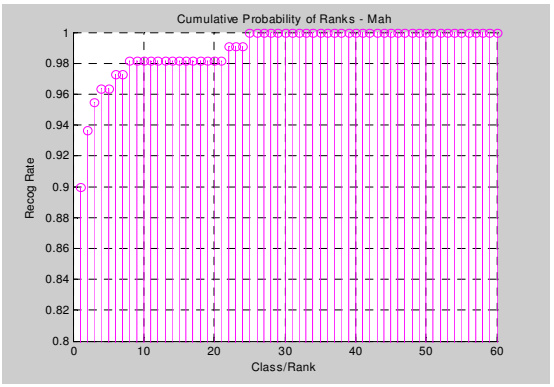

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

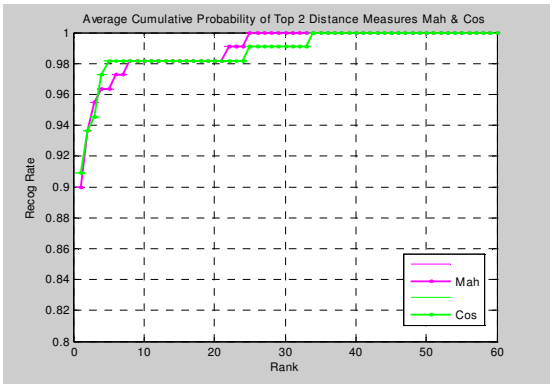

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

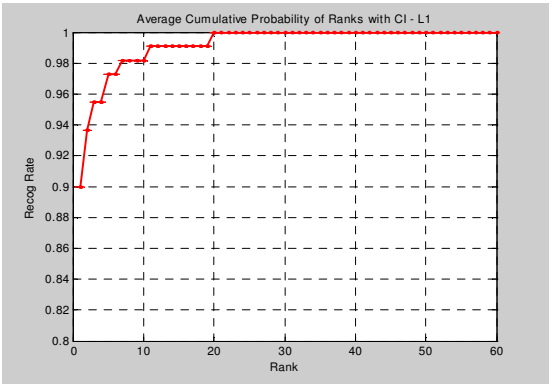

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

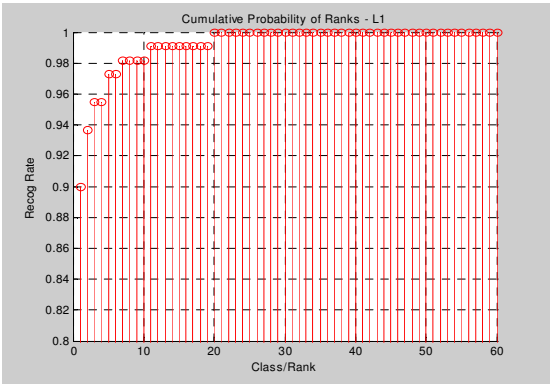

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

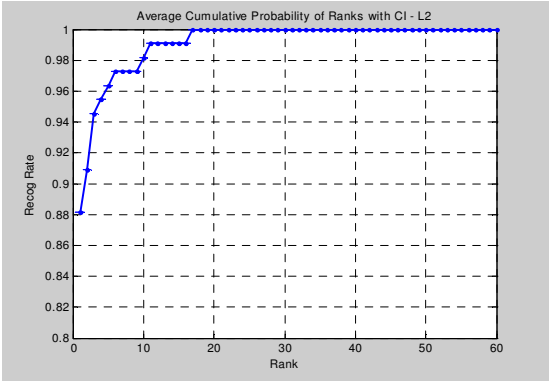

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

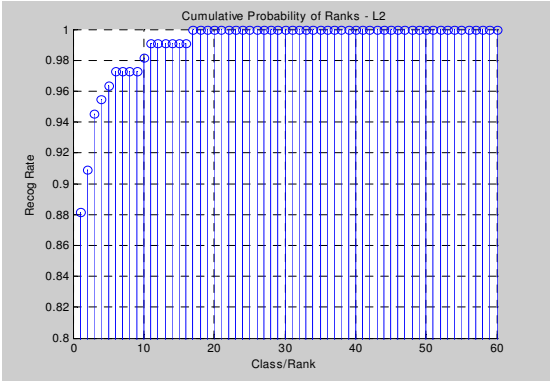

Average Cumulative Probability of Top 2 Distance Measures Mah & Cos
Recog Rate
Rank
Mah
Cos

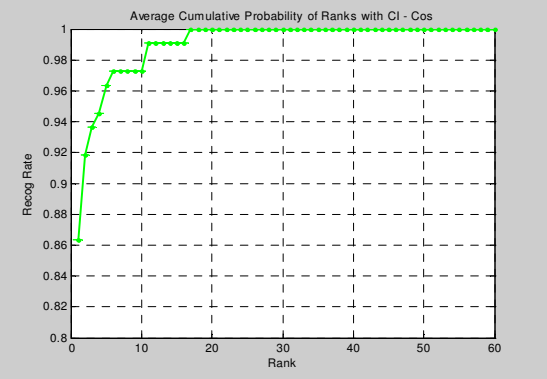
Polynomial

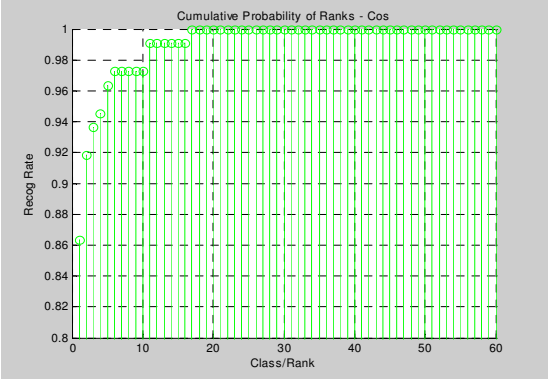

Average Cumulative Probability of Ranks with CI - L1
Recog Rate
Rank

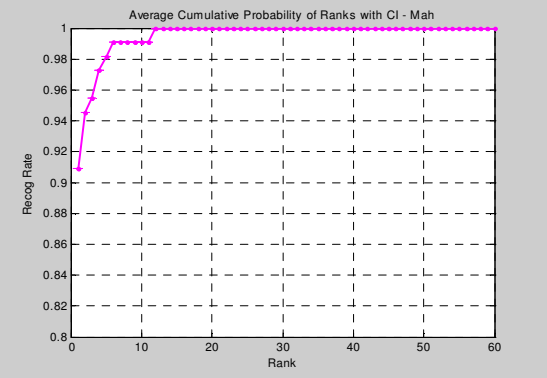

Cumulative Probability of Ranks - L1
Recog Rate
Class/Rank

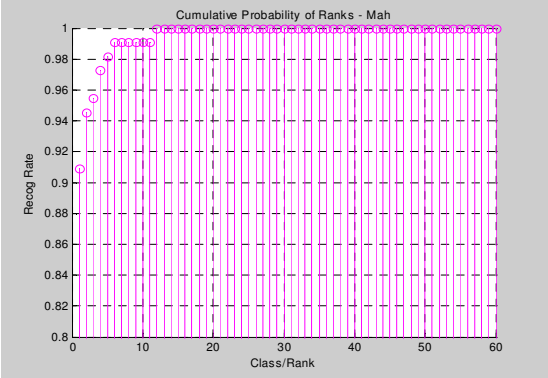

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

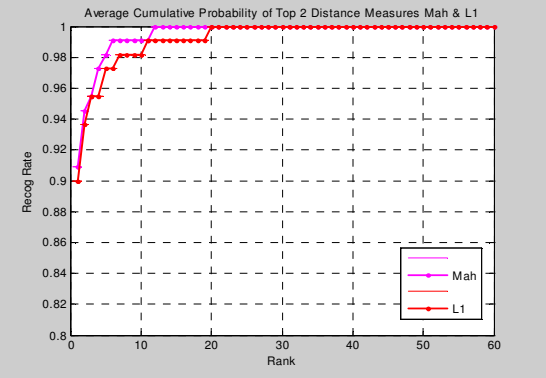

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

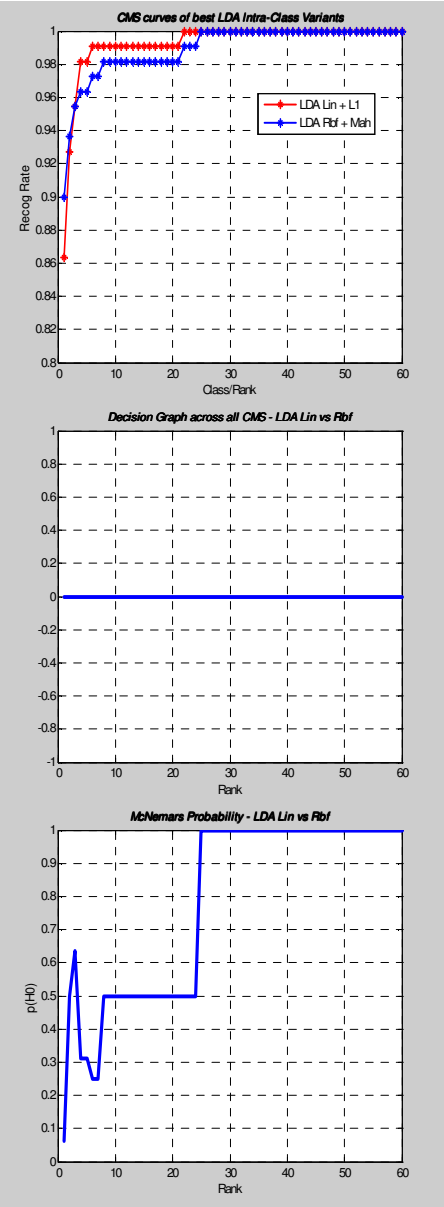

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

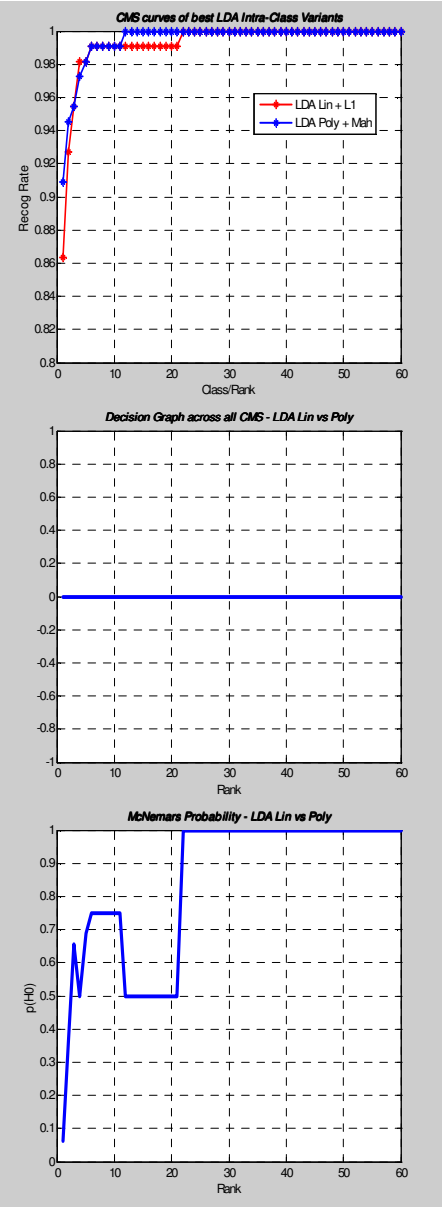

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

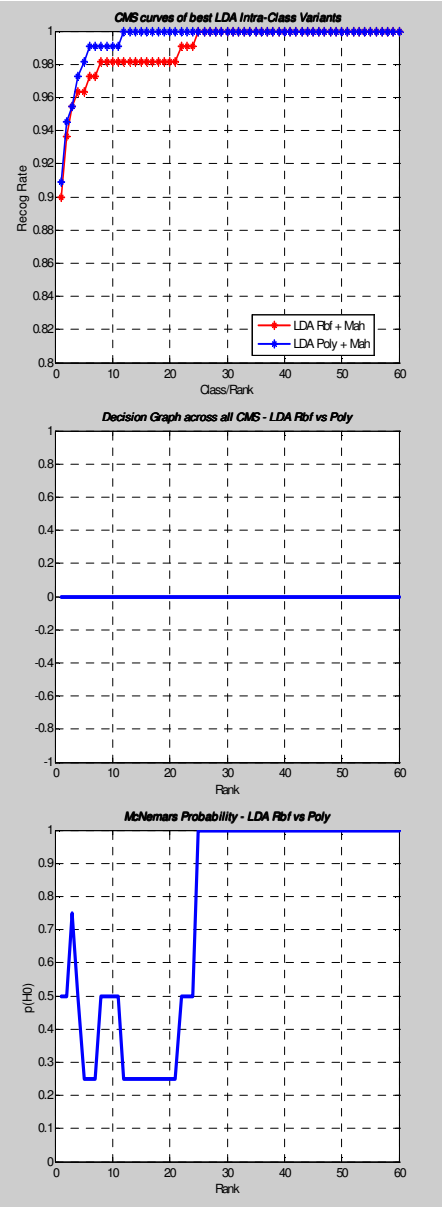

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank


Average Cumulative Probability of Top 2 Distance Measures Mah & L1
Recog Rate
Rank
Mah
L1

McNemar's Testing for the LDA class in category of Time Delay



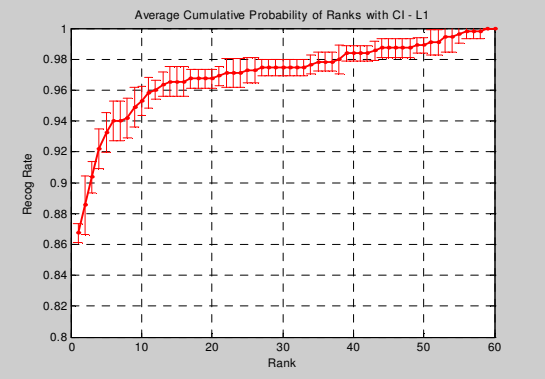


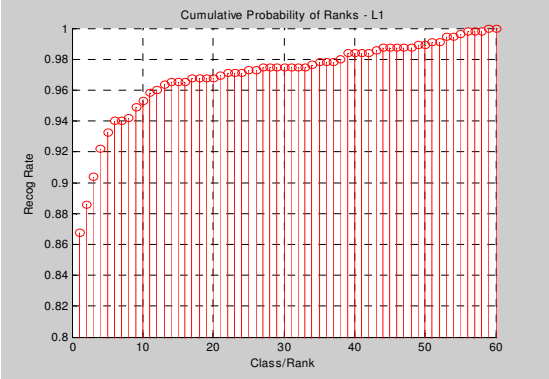


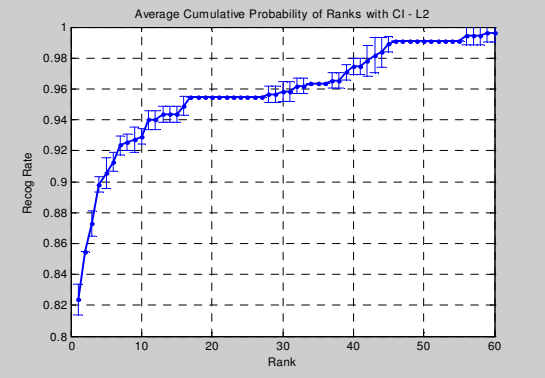
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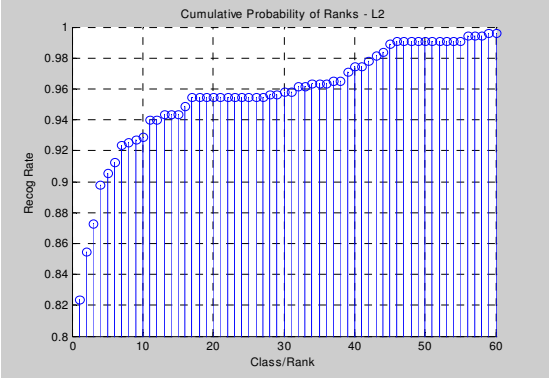
Confidence Interval & Stem plots

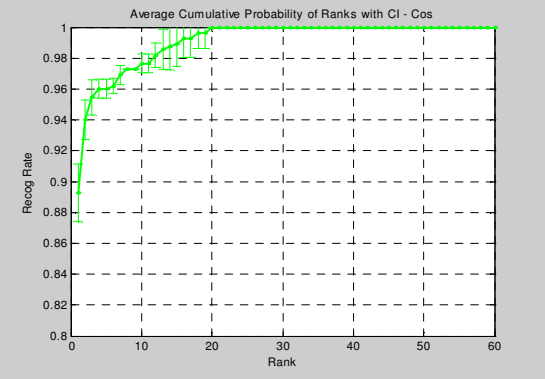
InfoMax Architecture I

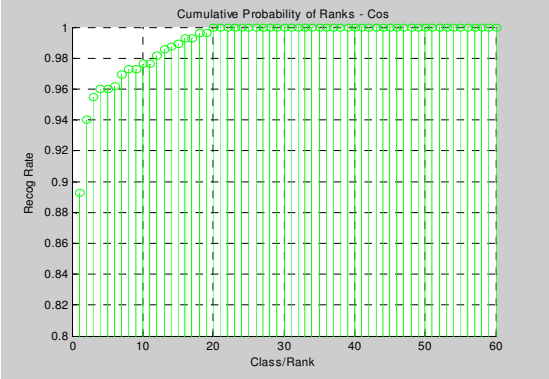


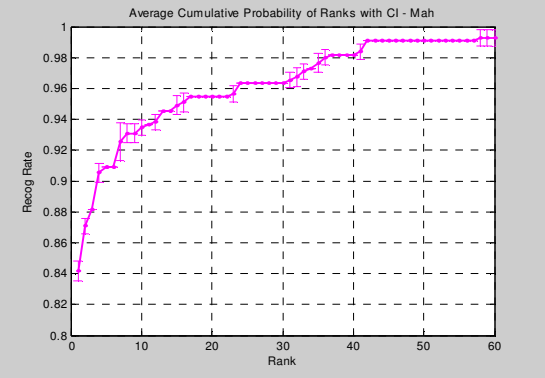


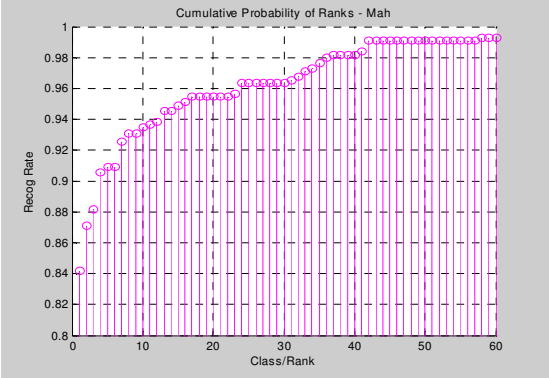


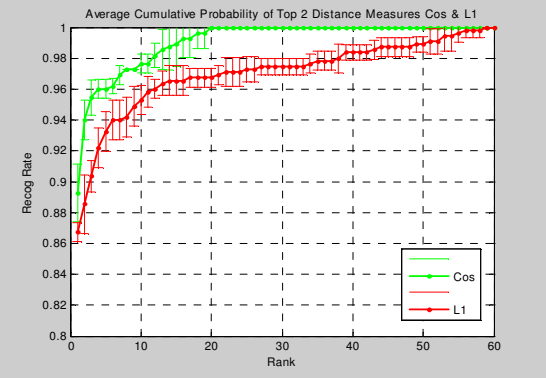




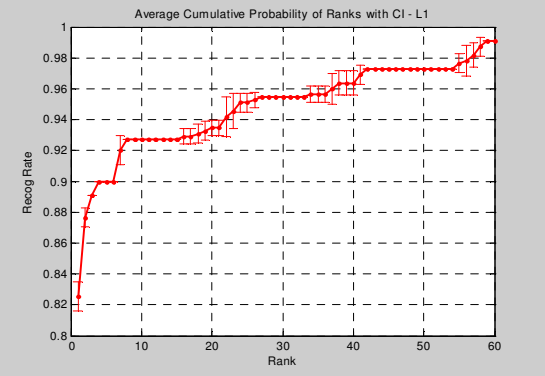


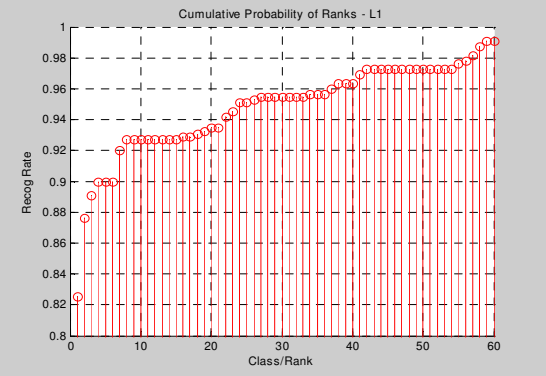


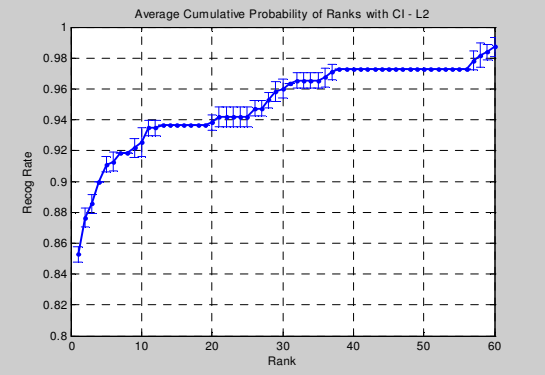


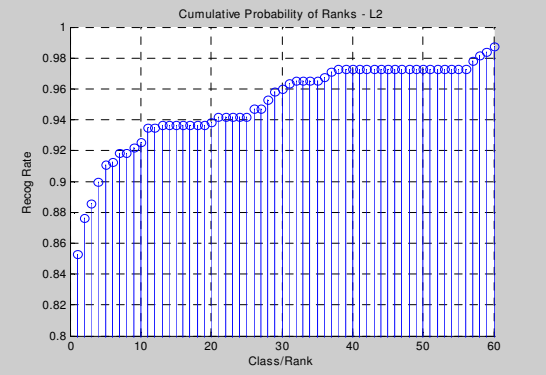


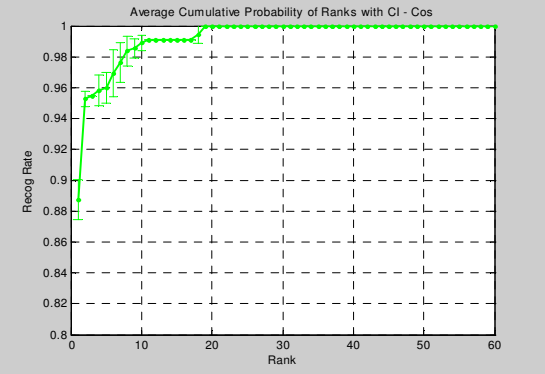
InfoMax Architecture II

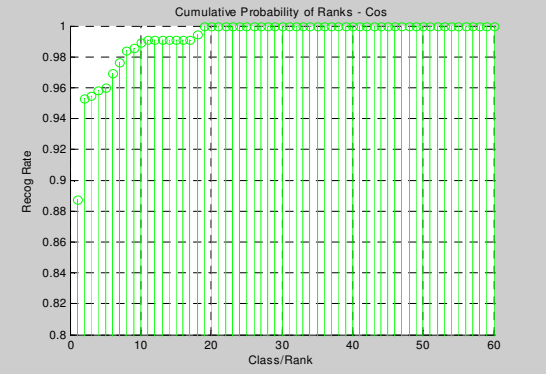


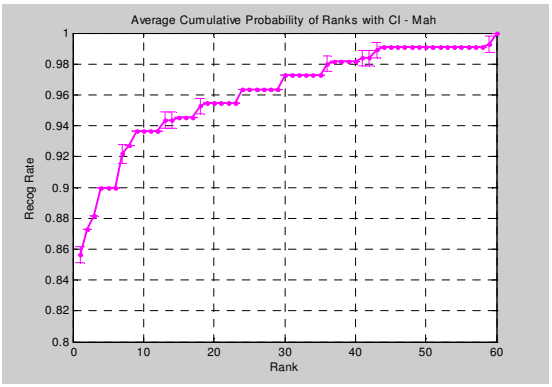


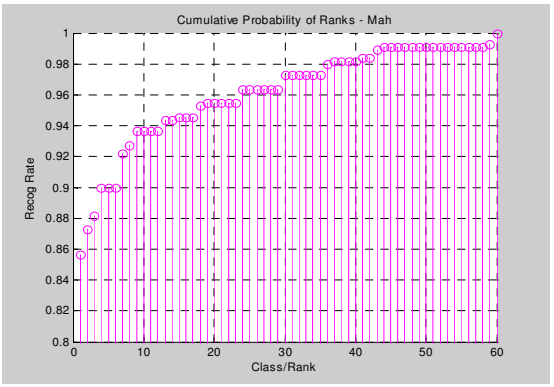


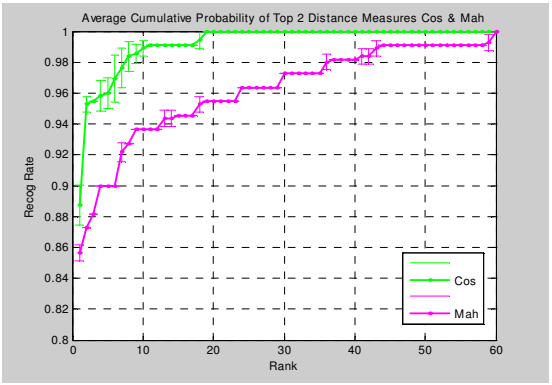




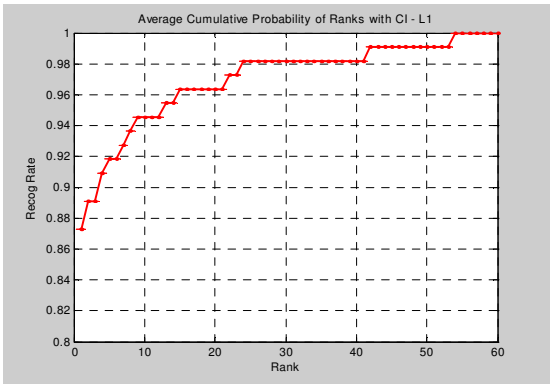


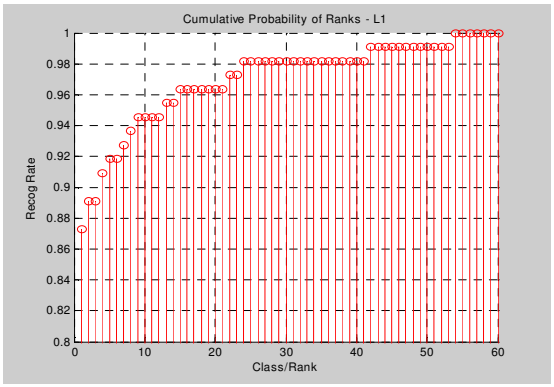


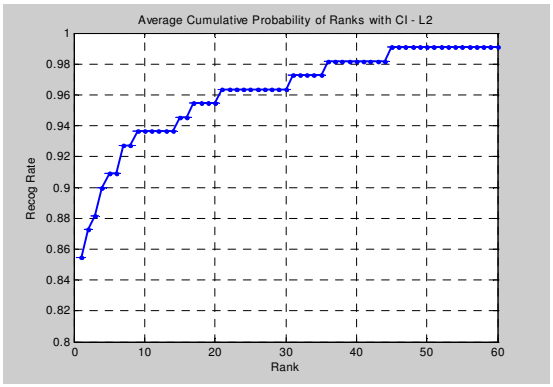


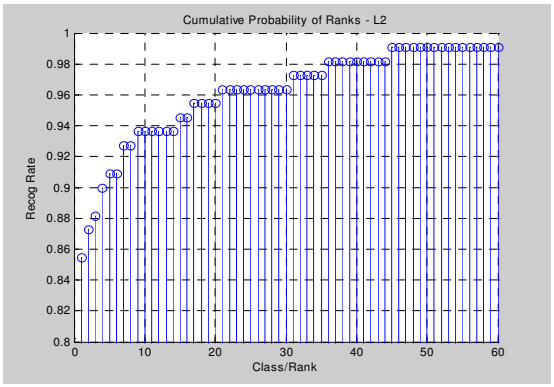


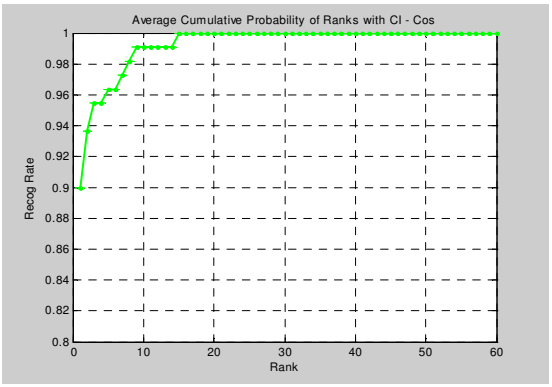
FastICA Architecture I

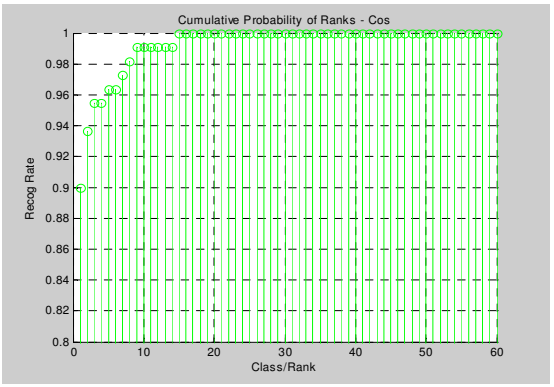


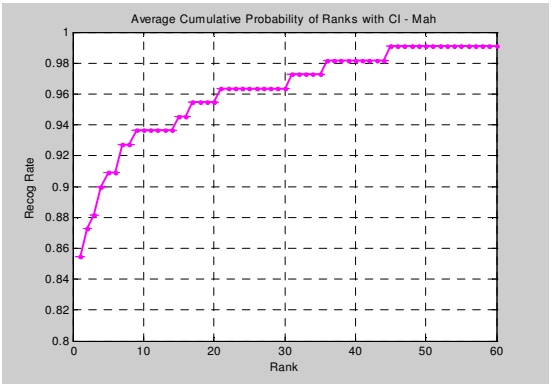


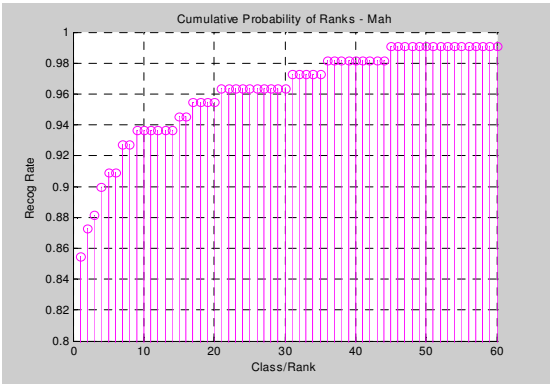


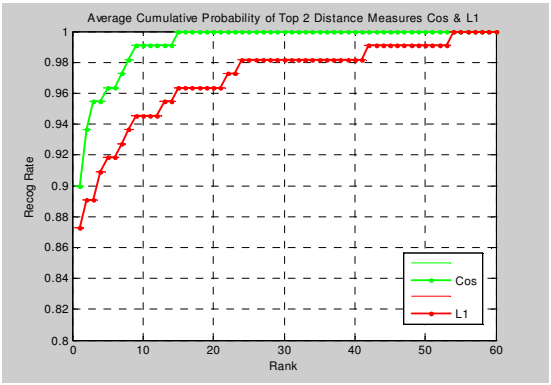




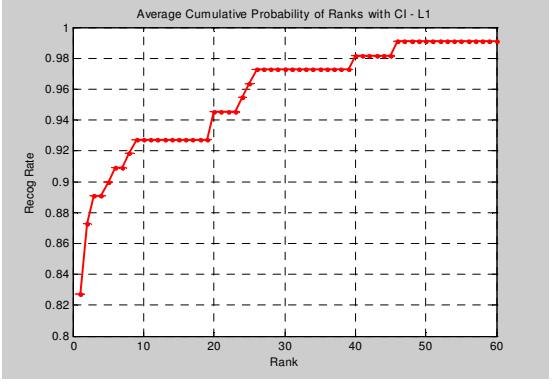


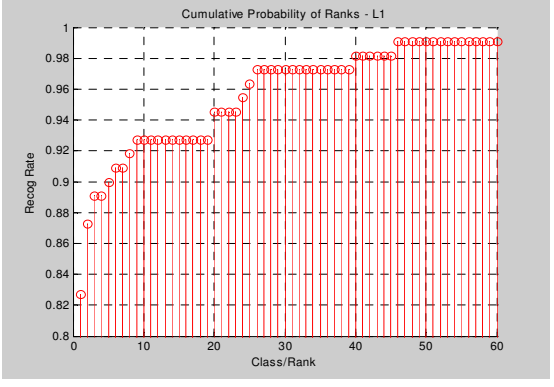


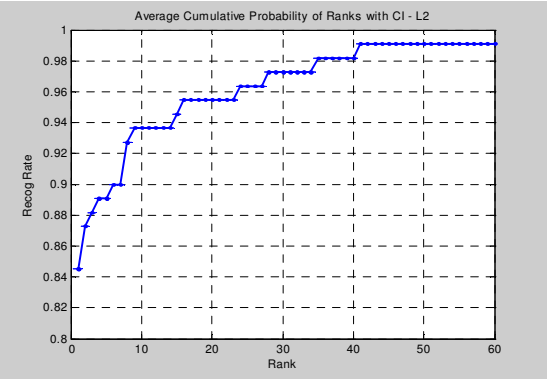


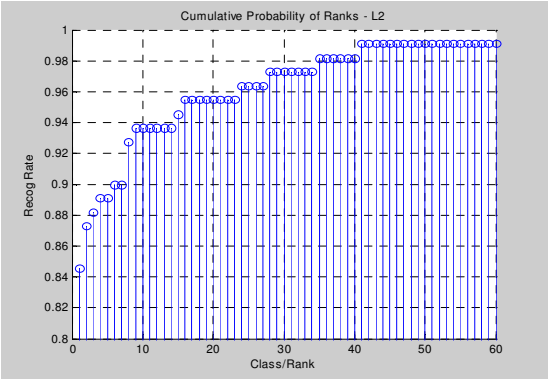


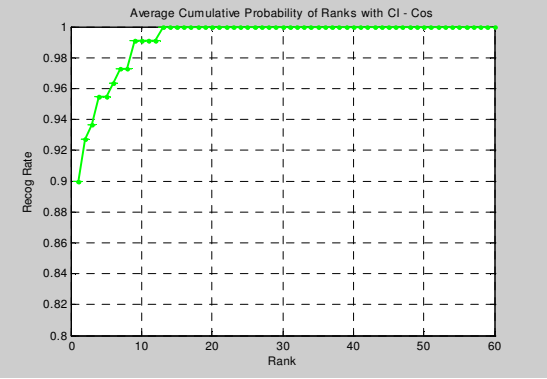
FastICA Architecture II

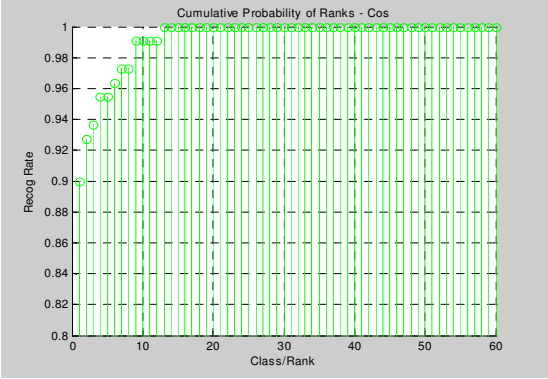


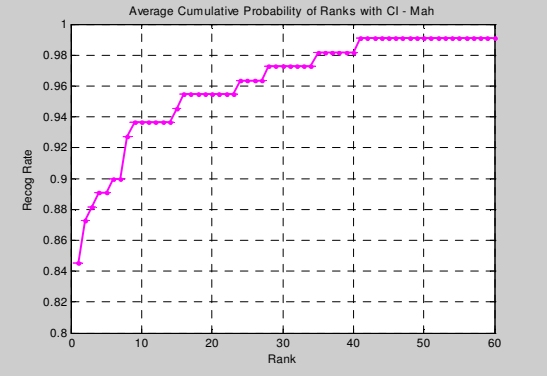


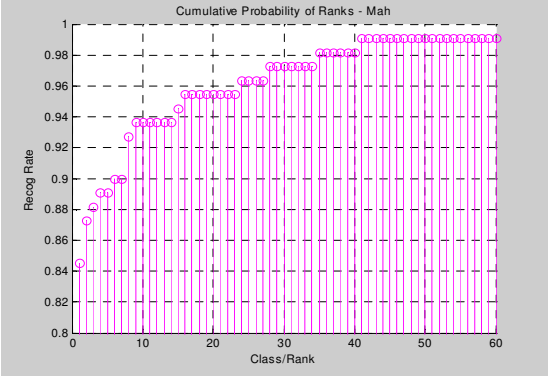

Average Cumulative Probability of Ranks with CI - L2
Recog Rate
Rank

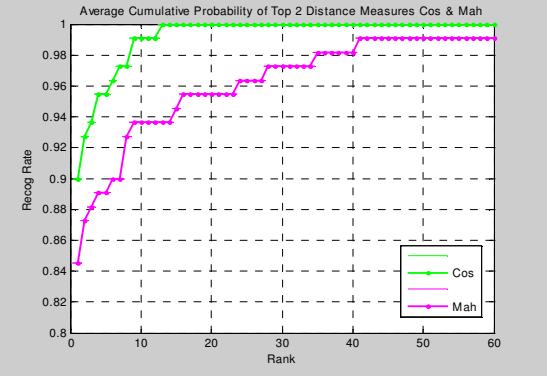

Cumulative Probability of Ranks - L2
Recog Rate
Class/Rank


Average Cumulative Probability of Ranks with CI - Cos
Recog Rate
Rank

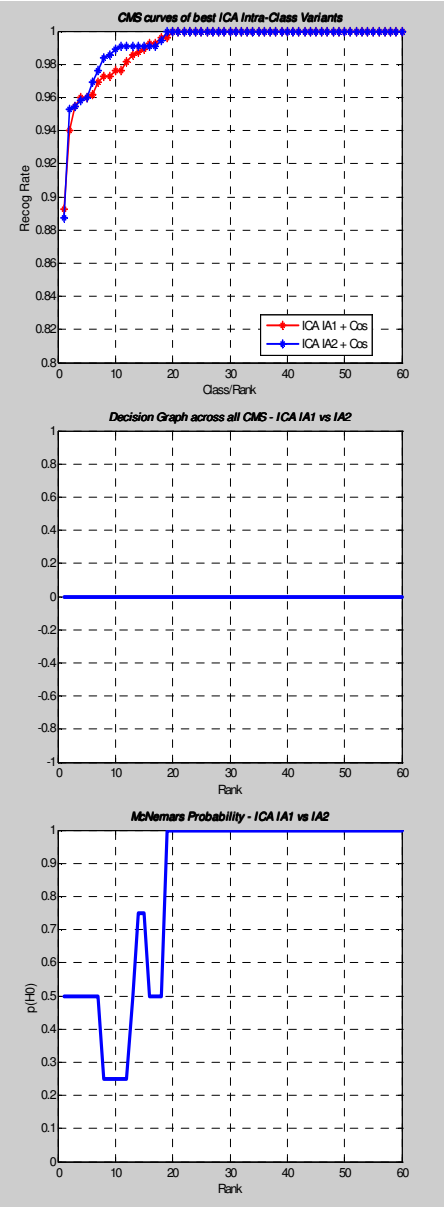

Cumulative Probability of Ranks - Cos
Recog Rate
Class/Rank

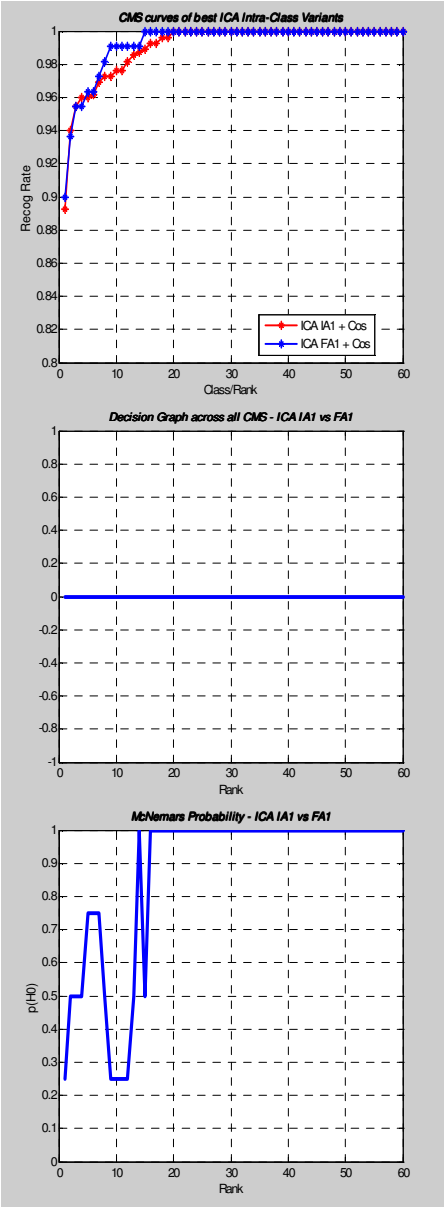

Average Cumulative Probability of Ranks with CI - Mah
Recog Rate
Rank

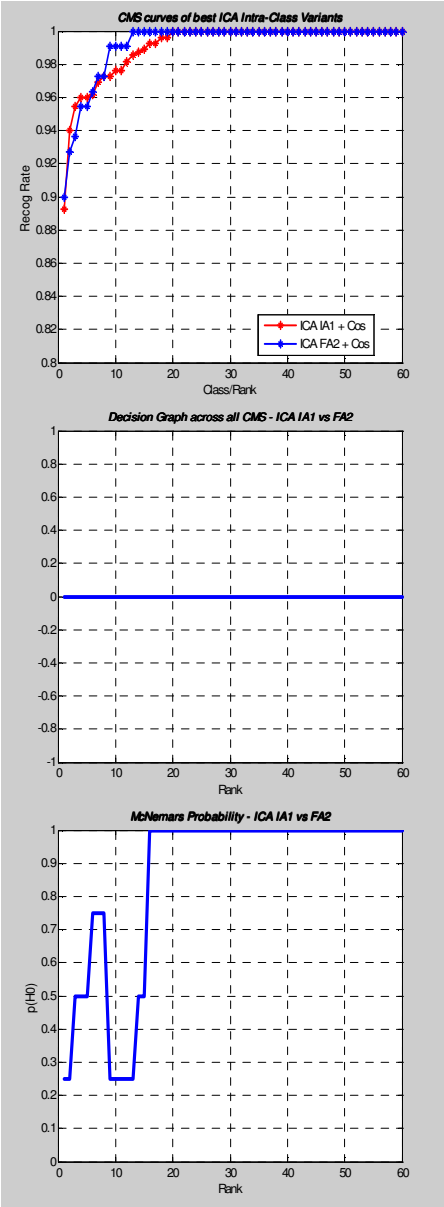

Cumulative Probability of Ranks - Mah
Recog Rate
Class/Rank

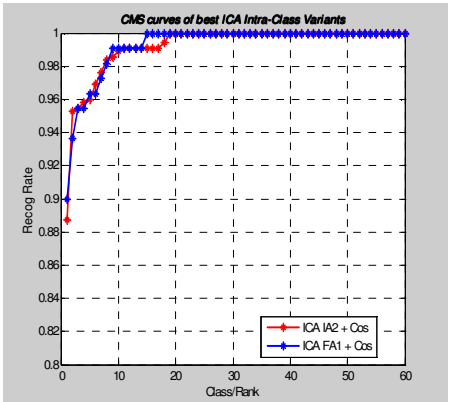

Average Cumulative Probability of Top 2 Distance Measures Cos & Mah
Recog Rate
Rank
Cos
Mah

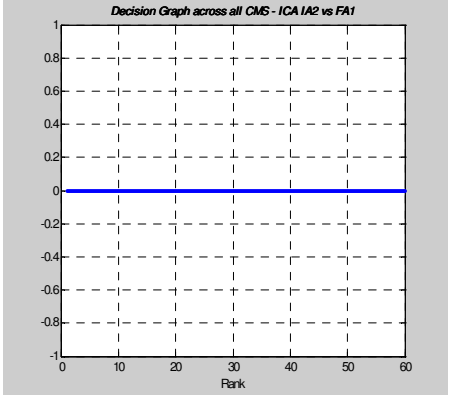
McNemar's Testing for the ICA class in category of Time Delay

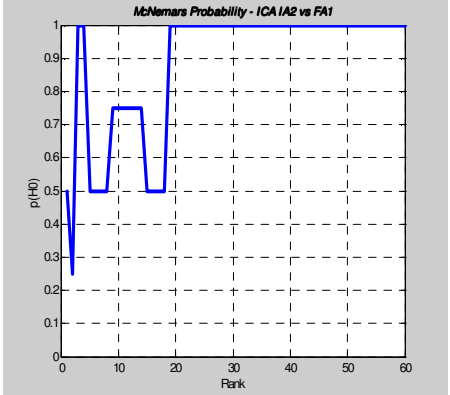


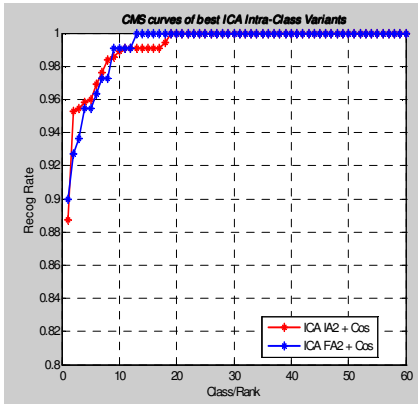


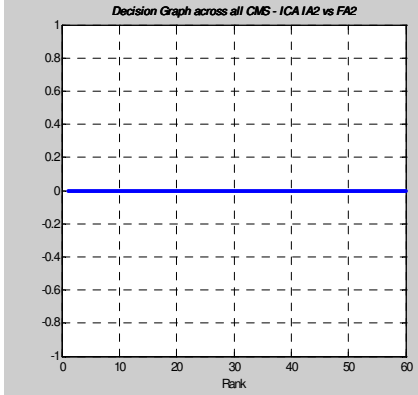


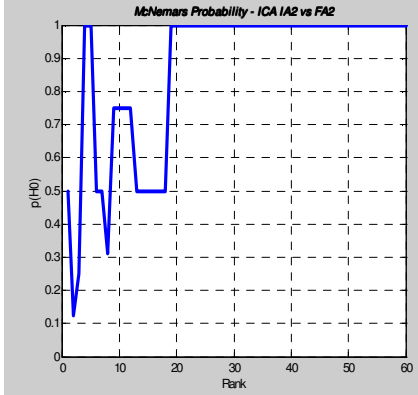

CMS curves of best ICA Intra-Class Variants
Recog Rate
Class/Rank
ICA IA2 + Cos
ICA FA1 + Cos

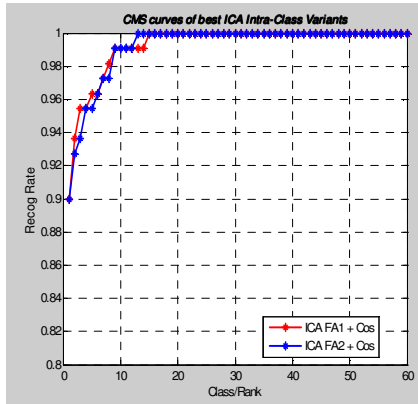

Decision Graph across all CMS - ICA IA2 vs FA1
Rank

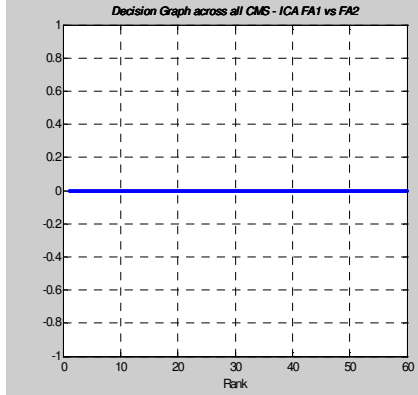

McNemars Probability - ICA IA2 vs FA1
p(H0)
Rank

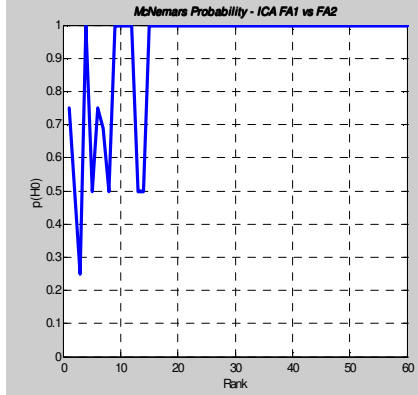

CMS curves of best ICA Intra-Class Variants
Recog Rate
Class/Rank
ICA IA2 + Cos
ICA FA2 + Cos


Decision Graph across all CMS - ICA IA2 vs FA2
Rank


McNemars Probability - ICA IA2 vs FA2
p(H0)
Rank


CMS curves of best ICA Intra-Class Variants
Recog Rate
Class/Rank
ICA FA1 + Cos
ICA FA2 + Cos


Decision Graph across all CMS - ICA FA1 vs FA2
Rank


McNemars Probability - ICA FA1 vs FA2
p(H0)
Rank