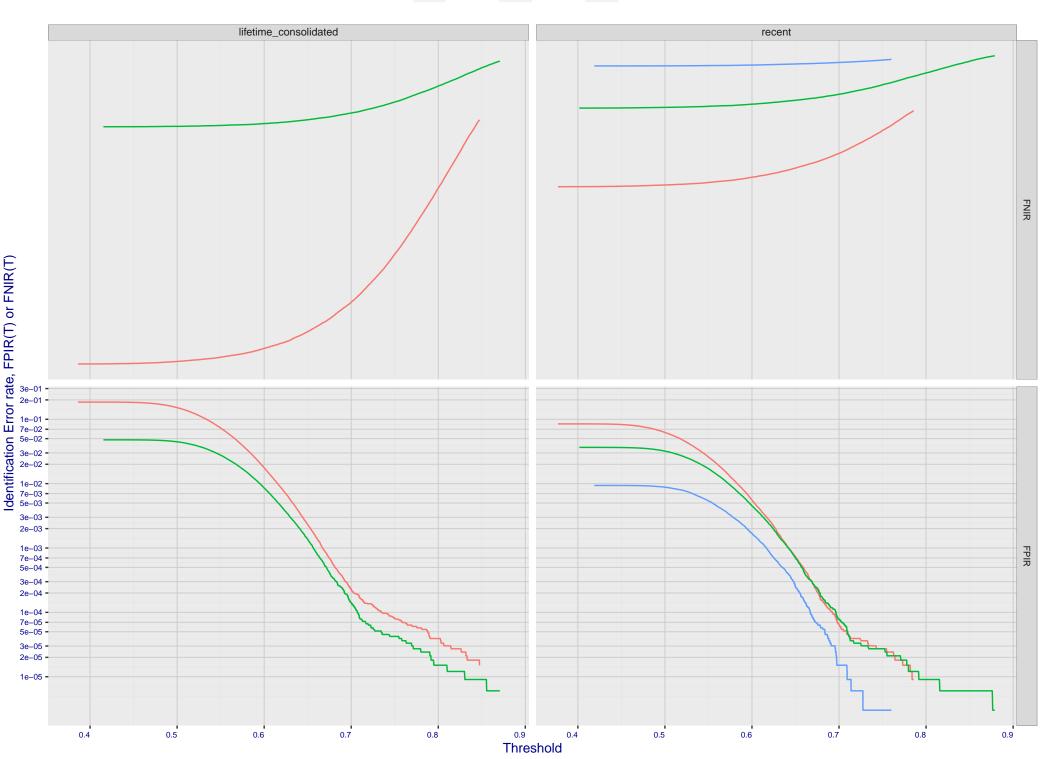
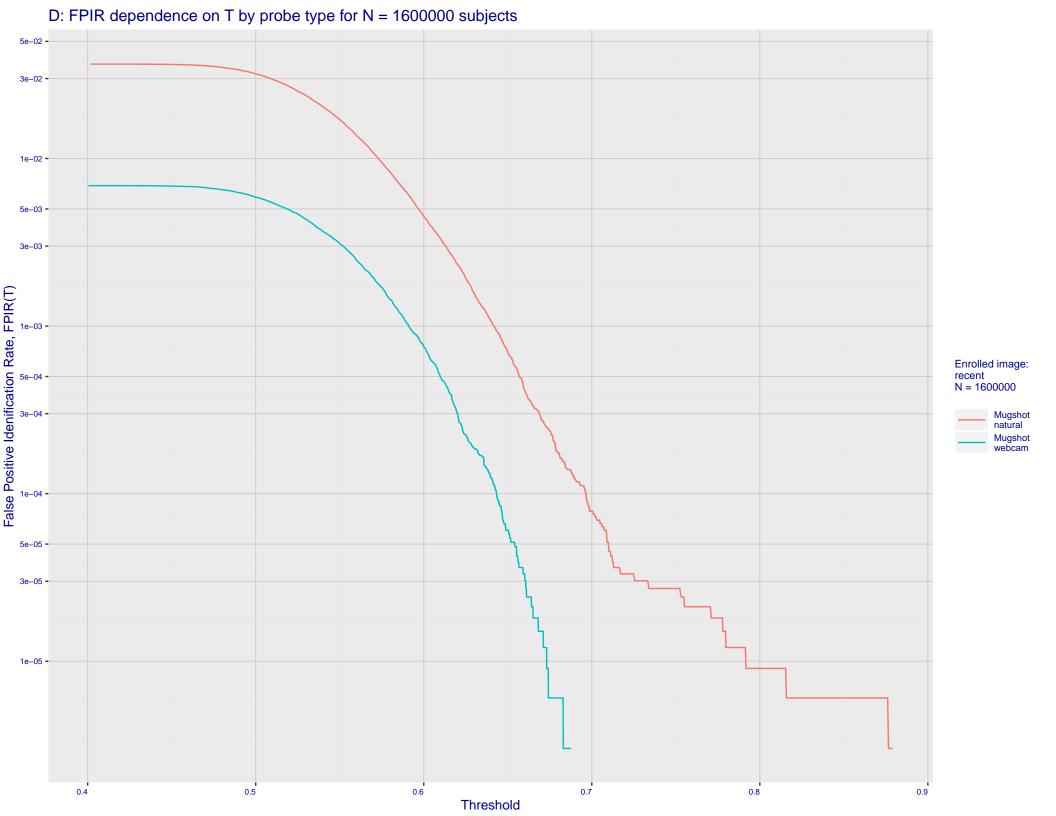


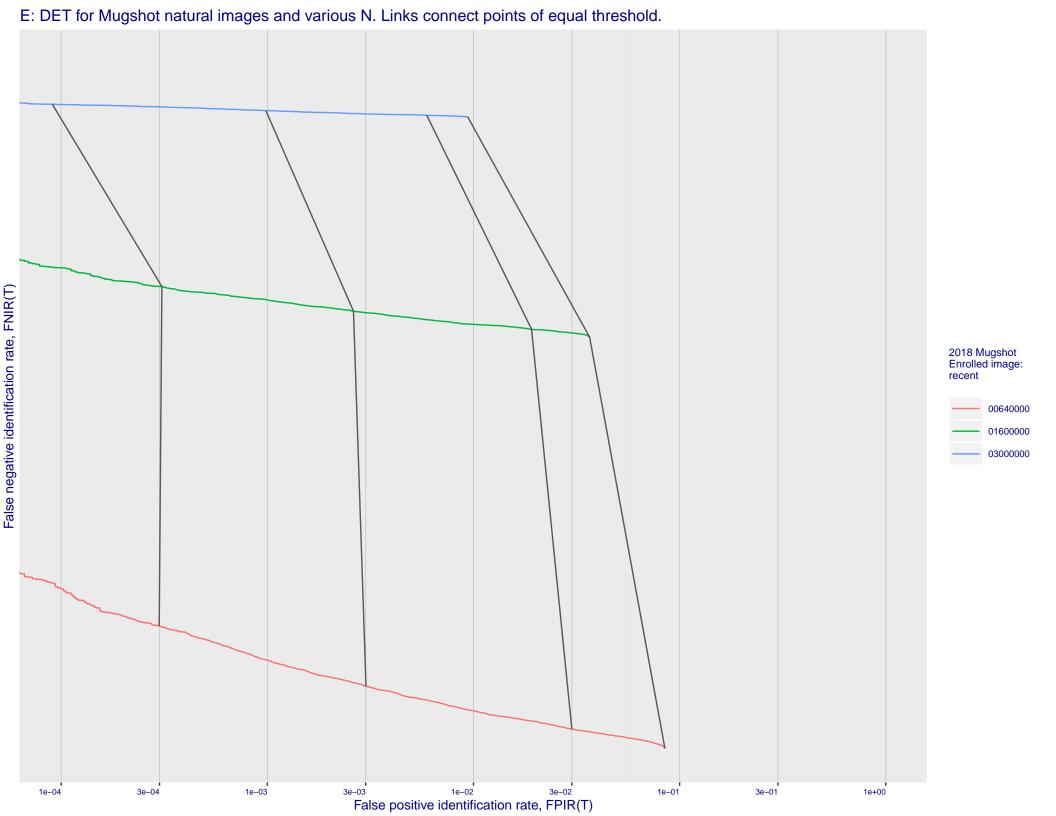
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images

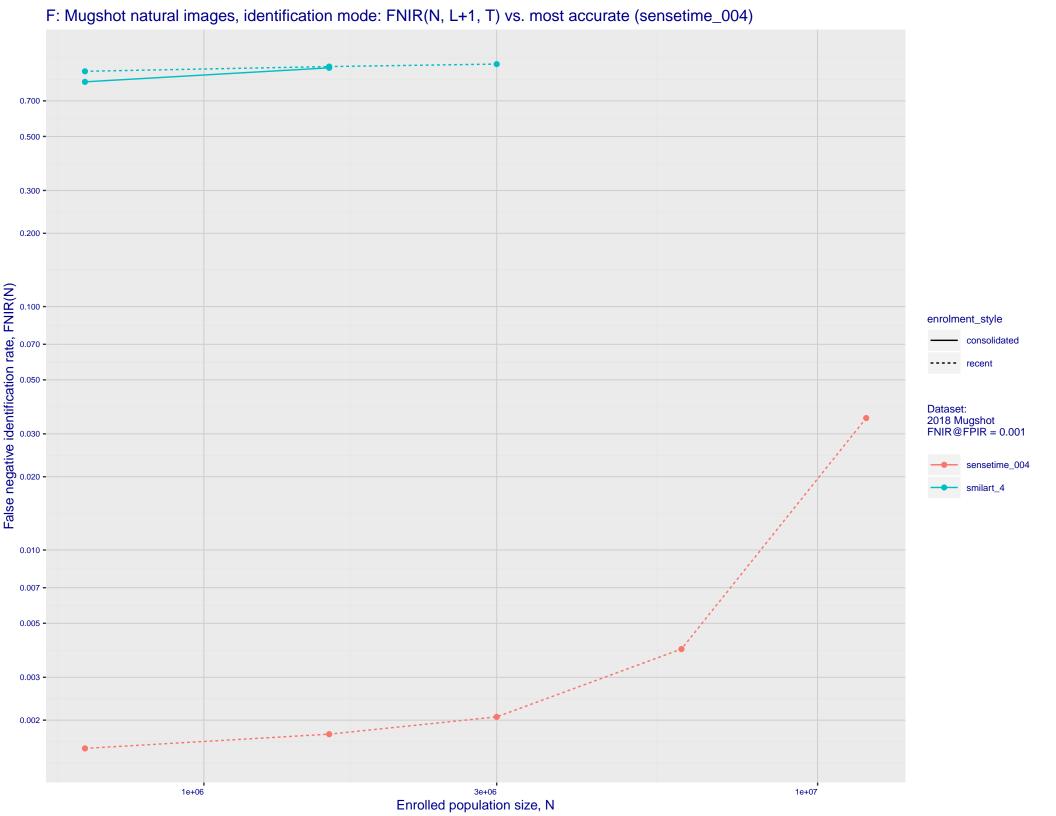




C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate 3e+00 -2e+00 · 1e+00 -7e-01 -5e-01 -3e-01 2e-01 -1e-01 **-**7e-02 -5e-02 -3e-02 -2e-02 -1e-02 -Selectivity, SEL(T) 5e-03 -5e-03 -2e-03 -1e-03 -Enrolled images: recent N = 1600000Mugshot natural Mugshot webcam 7e-04 5e-04 -3e-04 2e-04 -1e-04 -7e-05 -5e-05 -3e-05 -2e-05 -1e-05 • 1e-05 3e-05 1e-02 3e-02 False Positive Idenification Rate, FPIR(T)







G: Datasheet

Algorithm: smilart_4

Developer: Smilart

Submission Date: 2018_10_30

Template size: 512 bytes

Template time (2.5 percentile): 149 msec

Template time (median): 168 msec

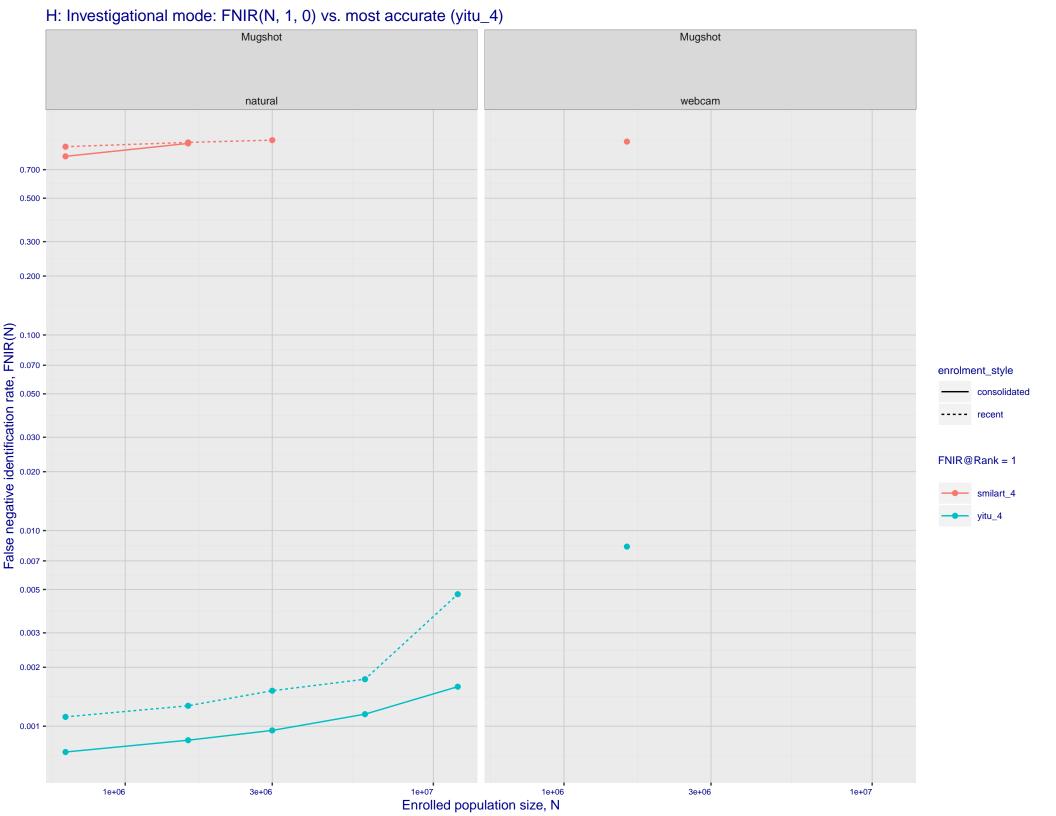
Template time (97.5 percentile): 191 msec

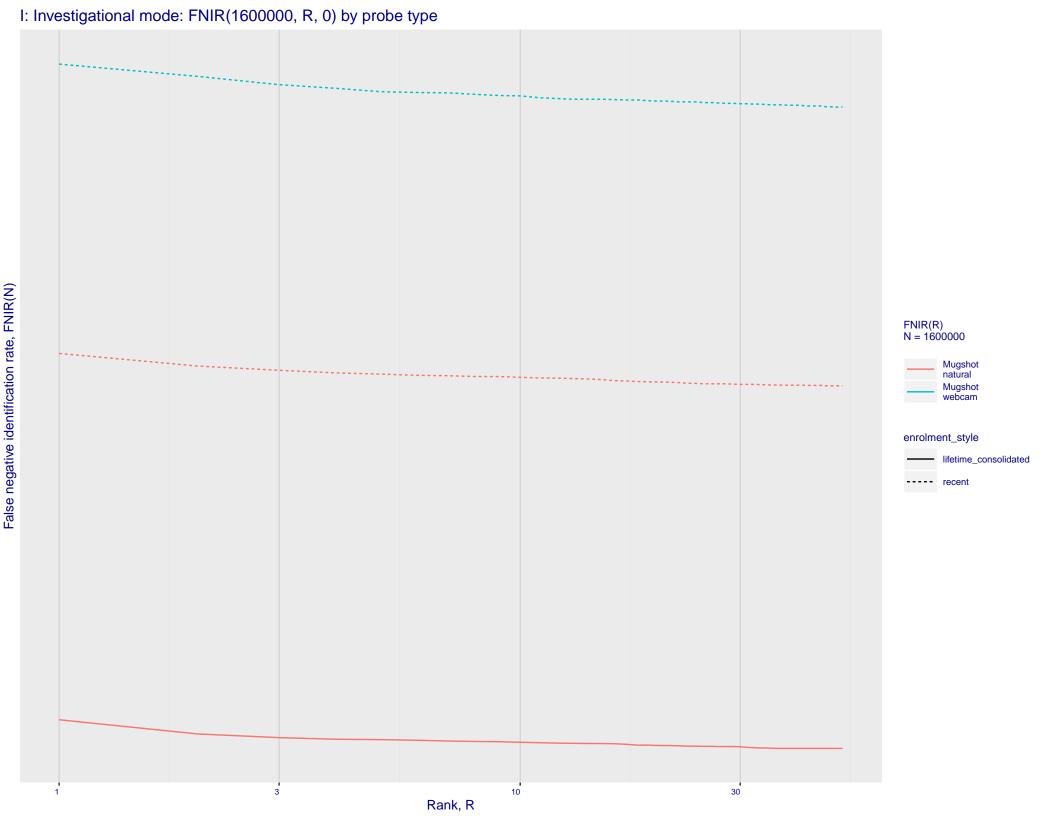
Frontal mugshot investigation rank 250 — FNIR(1600000, 0, 1) = 0.9648 vs. lowest 0.0010 from sensetime_004

natural investigation rank 212 -- FNIR(1600000, 0, 1) = 0.9742 vs. lowest 0.0067 from sensetime_003

Frontal mugshot identification rank 241 -- FNIR(1600000, T, L+1) = 0.9682 vs. lowest 0.0018 from sensetime_004

natural identification rank 204 -- FNIR(1600000, T, L+1) = 0.9756 vs. lowest 0.0122 from sensetime_003





Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power–law models are fit to the first two (N,T) observations Log Model ----- Power Law Model 7000 5000 -Search Duration (milliseconds) 700 • 500 -300 200 -1e+06 8e+05

Enrolled population size, N, one image per person