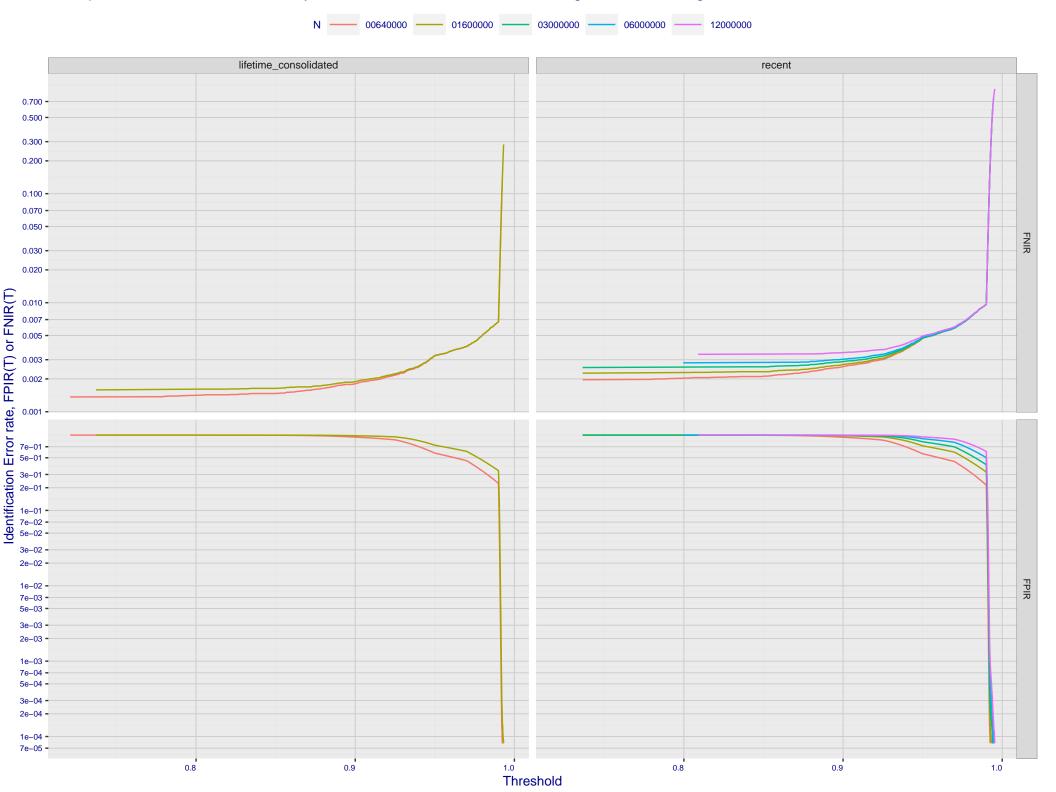
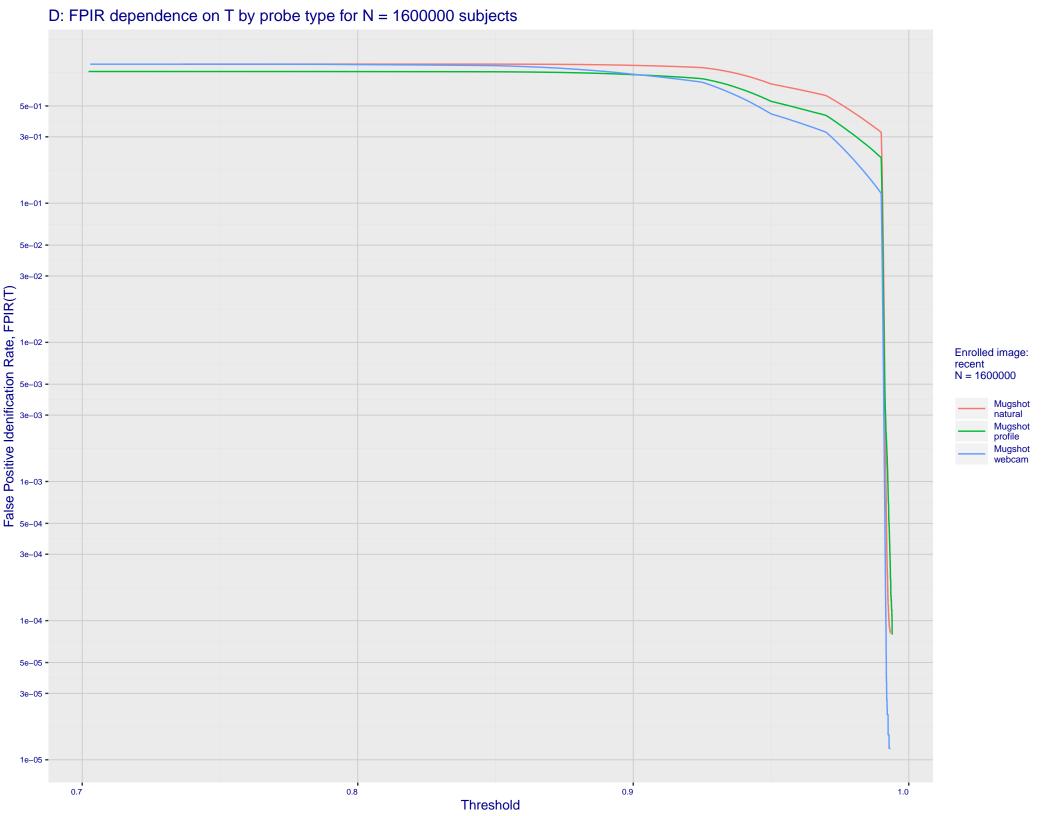
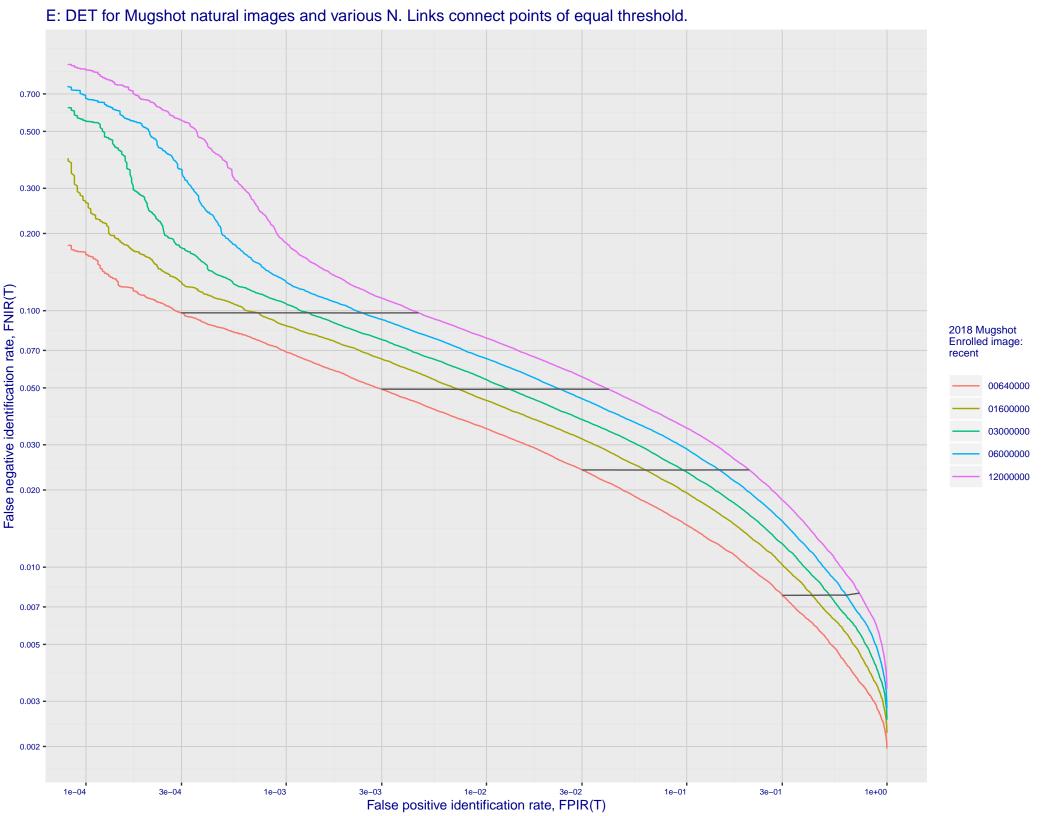


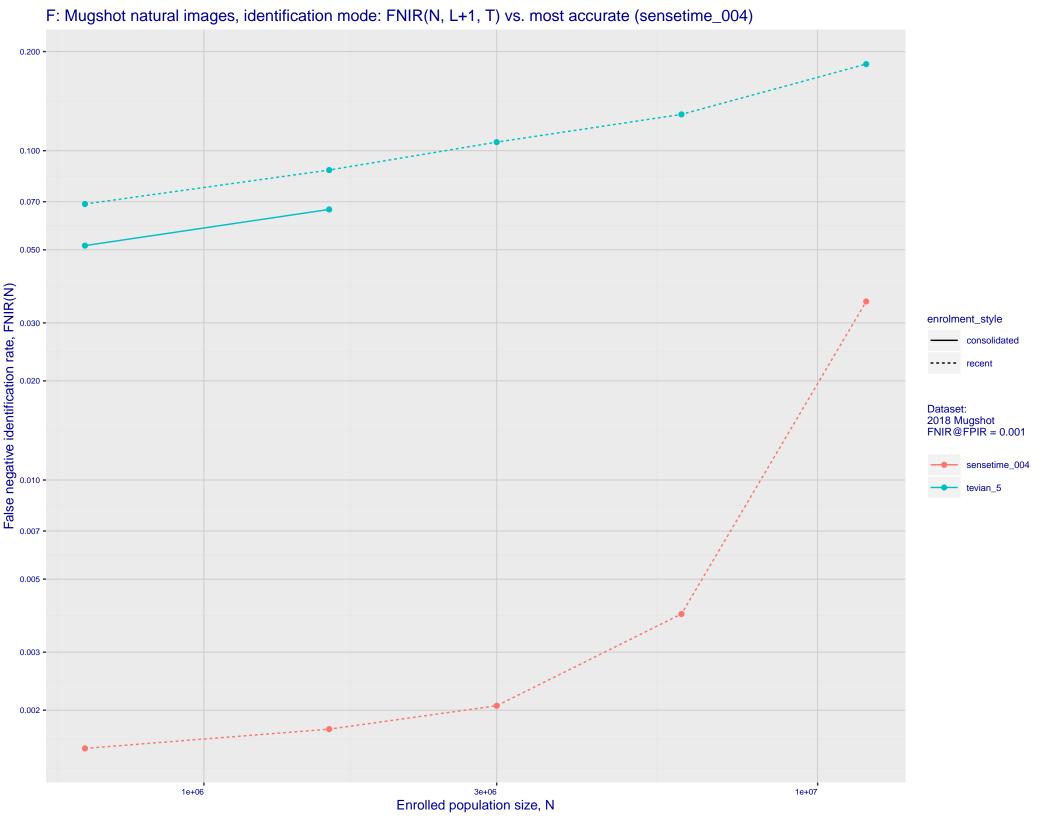
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



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







## G: Datasheet

Algorithm: tevian\_5

Developer: Tevian

Submission Date: 2018\_10\_30

Template size: 2048 bytes

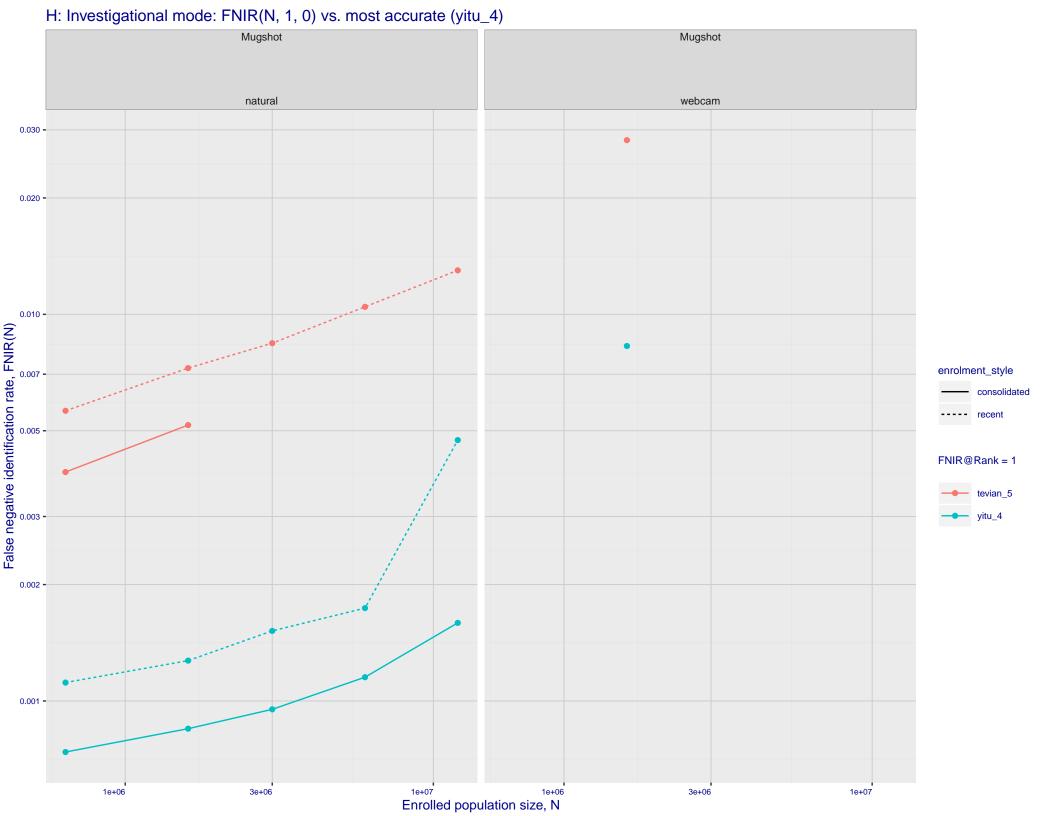
Template time (2.5 percentile): 368 msec

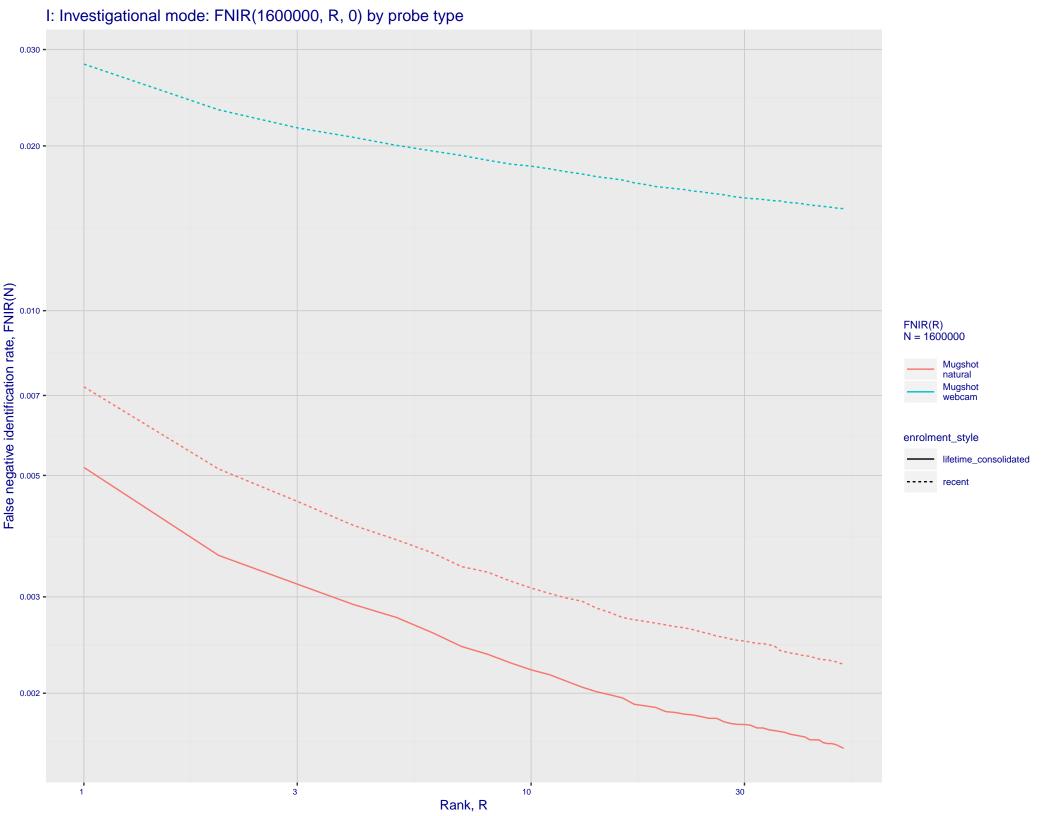
Template time (median): 405 msec

Template time (97.5 percentile): 611 msec

Frontal mugshot investigation rank 92 — FNIR(1600000, 0, 1) = 0.0073 vs. lowest 0.0010 from sensetime\_004 natural investigation rank 94 — FNIR(1600000, 0, 1) = 0.0282 vs. lowest 0.0067 from sensetime\_003 natural investigation rank 49 — FNIR(1600000, 0, 1) = 0.2795 vs. lowest 0.0492 from paravision\_005 natural investigation rank 49 — FNIR(1600000, 0, 1) = 0.2795 vs. lowest 0.0492 from paravision\_005

Frontal mugshot identification rank 110 — FNIR(1600000, T, L+1) = 0.0873 vs. lowest 0.0018 from sensetime\_004 natural identification rank 88 — FNIR(1600000, T, L+1) = 0.1438 vs. lowest 0.0122 from sensetime\_003 natural identification rank 33 — FNIR(1600000, T, L+1) = 0.8911 vs. lowest 0.1020 from sensetime\_004





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

