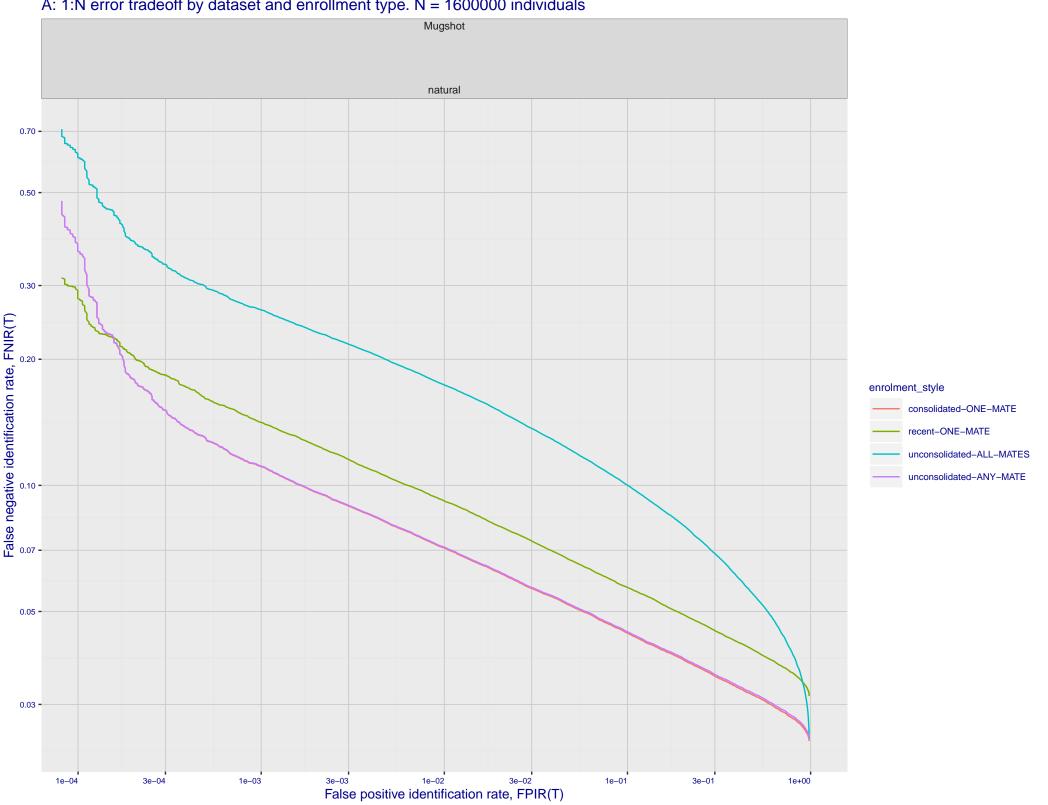
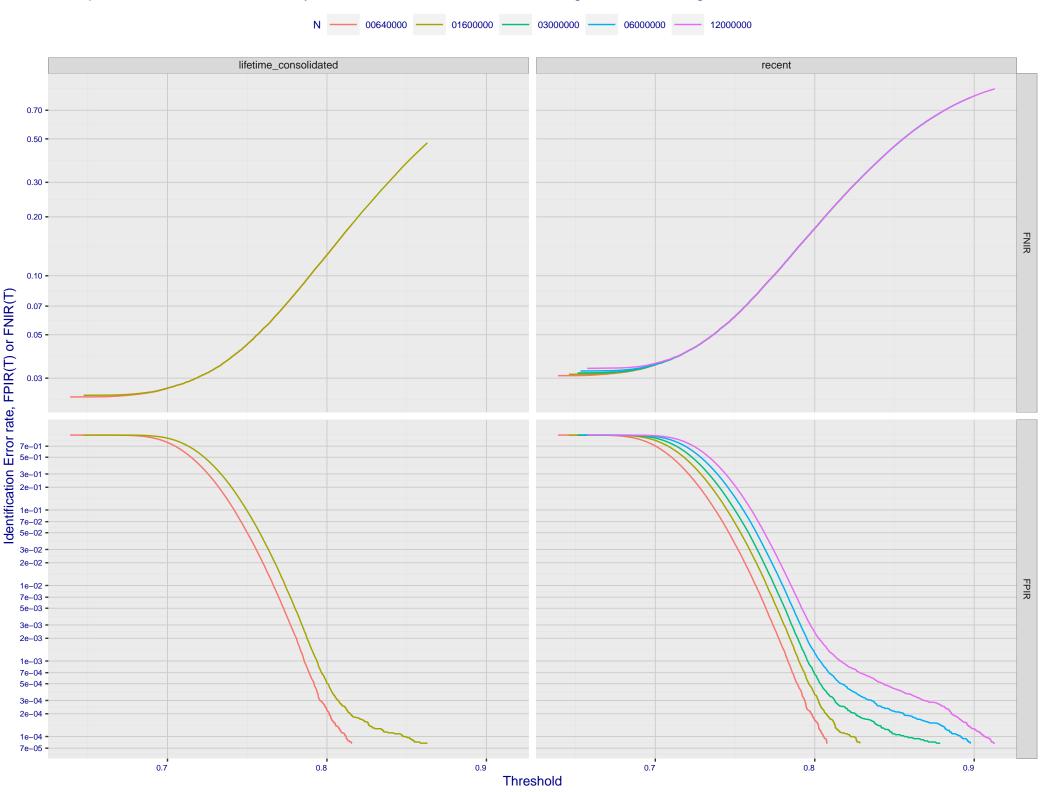
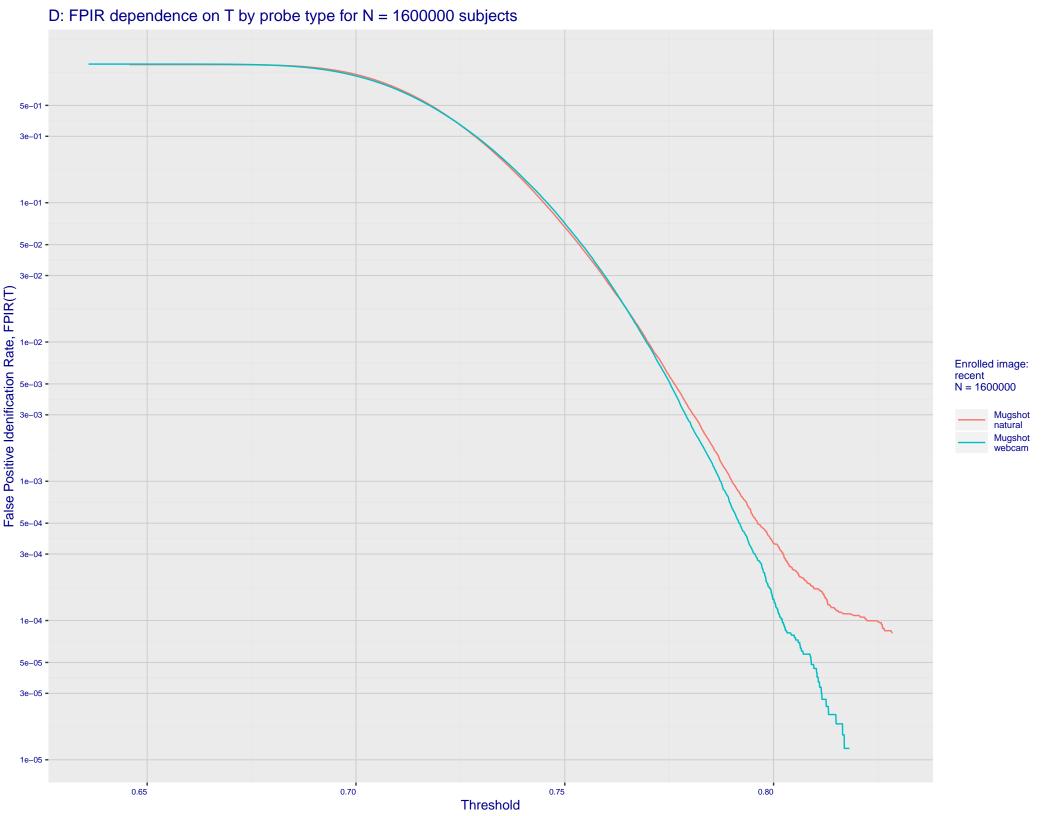
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals Mugshot

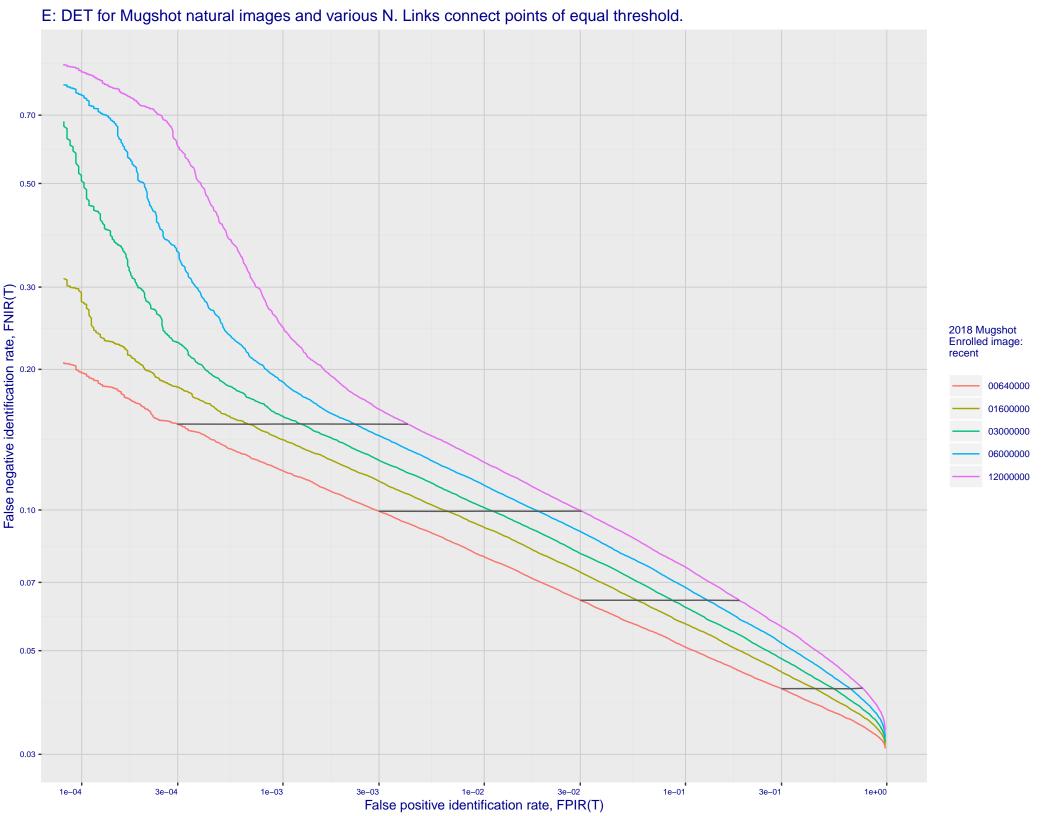


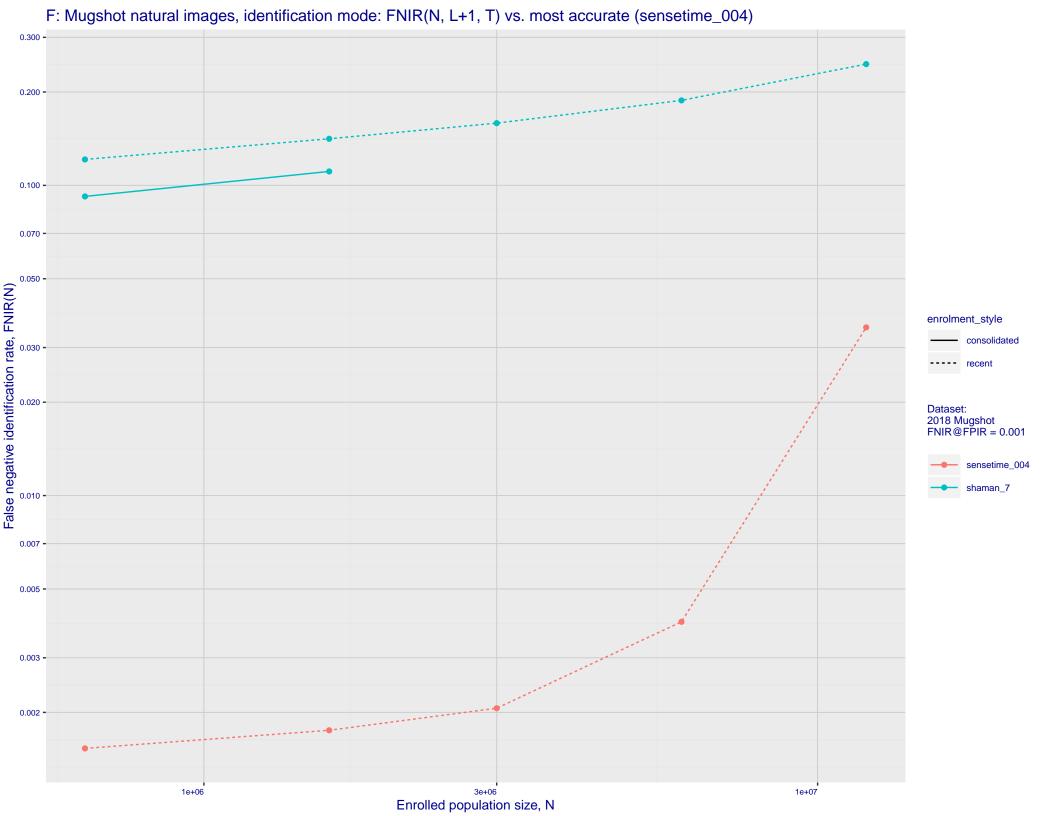
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



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 -7e-02 -7e-02 -7e-02 -3e-02 -3e-02 -1e-02 -7e-03 -Enrolled images: recent N = 1600000Mugshot natural 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 -1e-05 3e-05 1e-04 3e-04 1e-01 3e-01 False Positive Idenification Rate, FPIR(T)







G: Datasheet

Algorithm: shaman_7

Developer: Shaman Software Submission Date: 2018_10_26

Template size: 2048 bytes

Template time (2.5 percentile): 704 msec

Template time (median): 707 msec

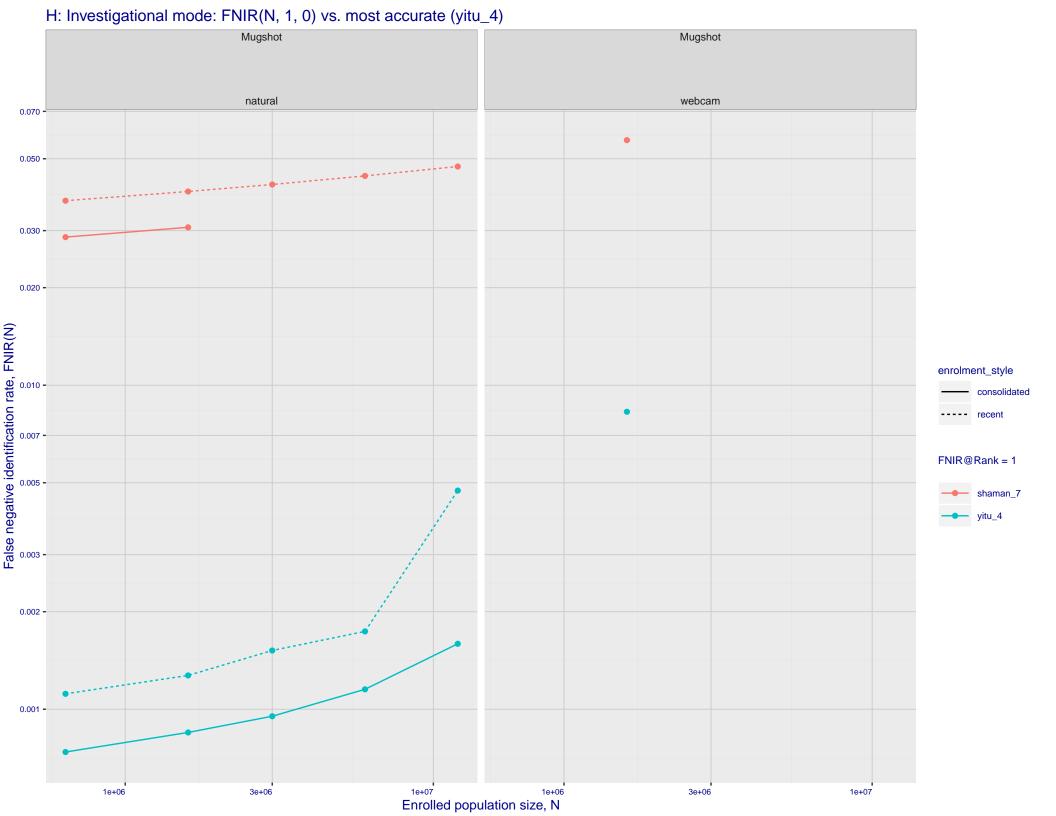
Template time (97.5 percentile): 778 msec

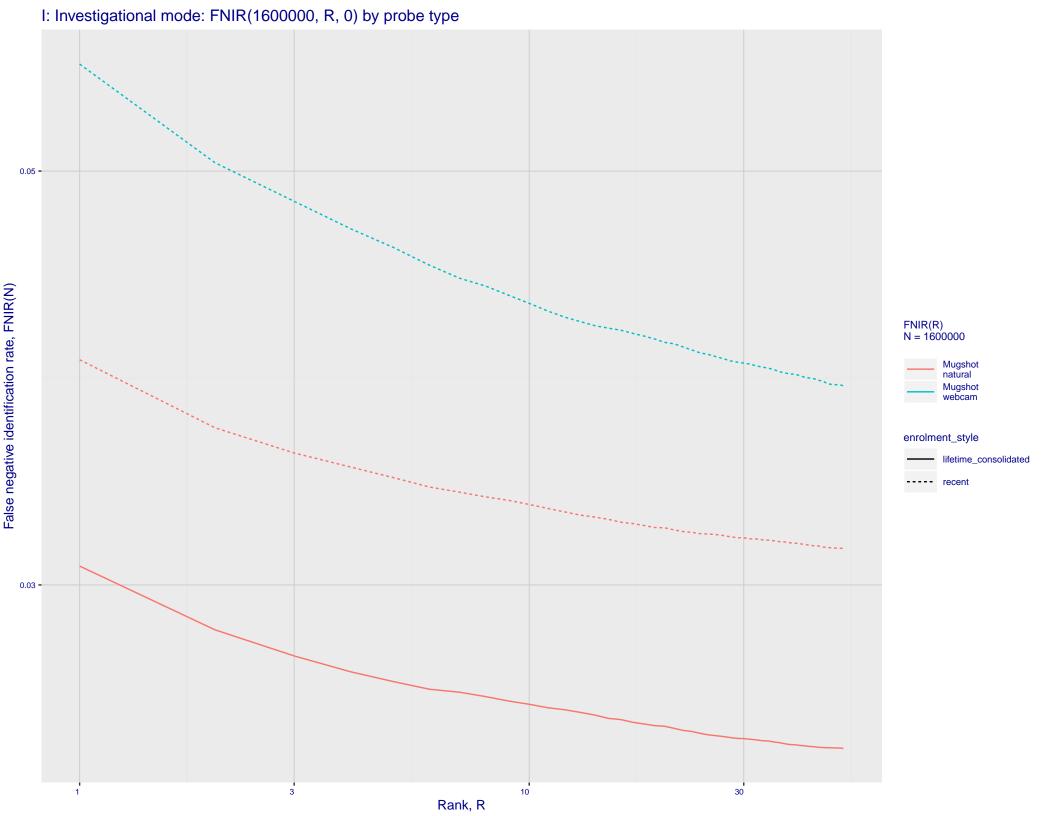
Frontal mugshot investigation rank 179 — FNIR(1600000, 0, 1) = 0.0396 vs. lowest 0.0010 from sensetime_004

natural investigation rank 137 — FNIR(1600000, 0, 1) = 0.0571 vs. lowest 0.0067 from sensetime_003

Frontal mugshot identification rank 143 -- FNIR(1600000, T, L+1) = 0.1413 vs. lowest 0.0018 from sensetime_004

natural identification rank 127 -- FNIR(1600000, T, L+1) = 0.2400 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

