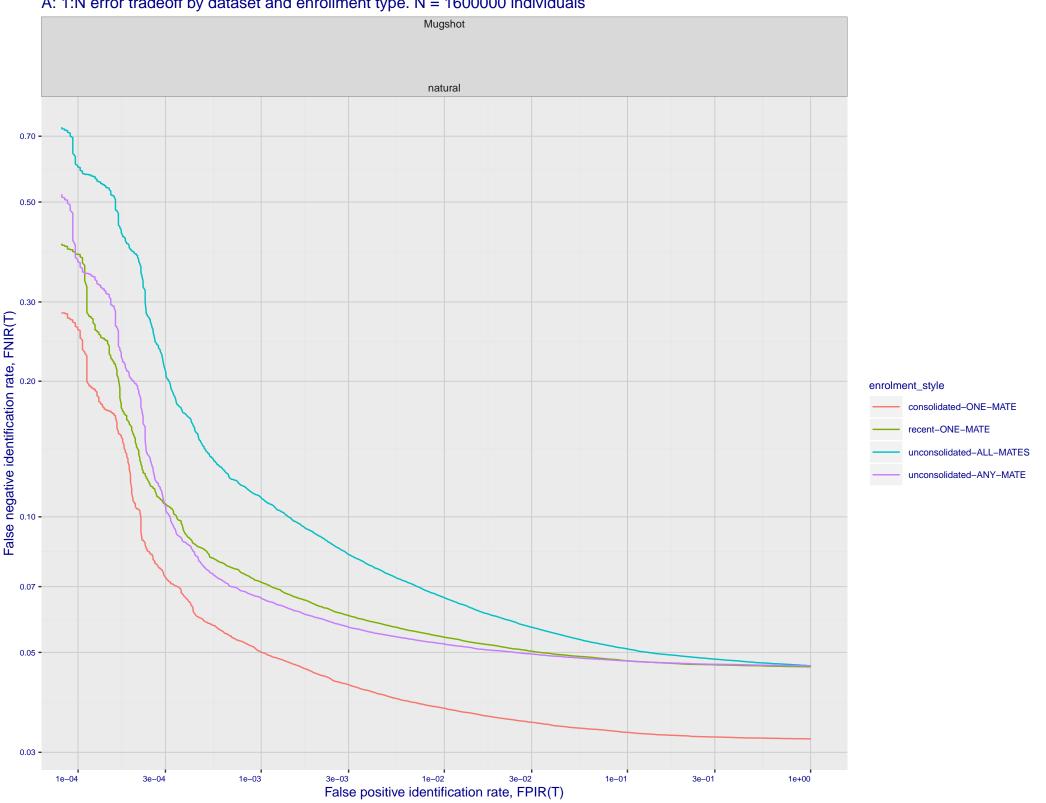
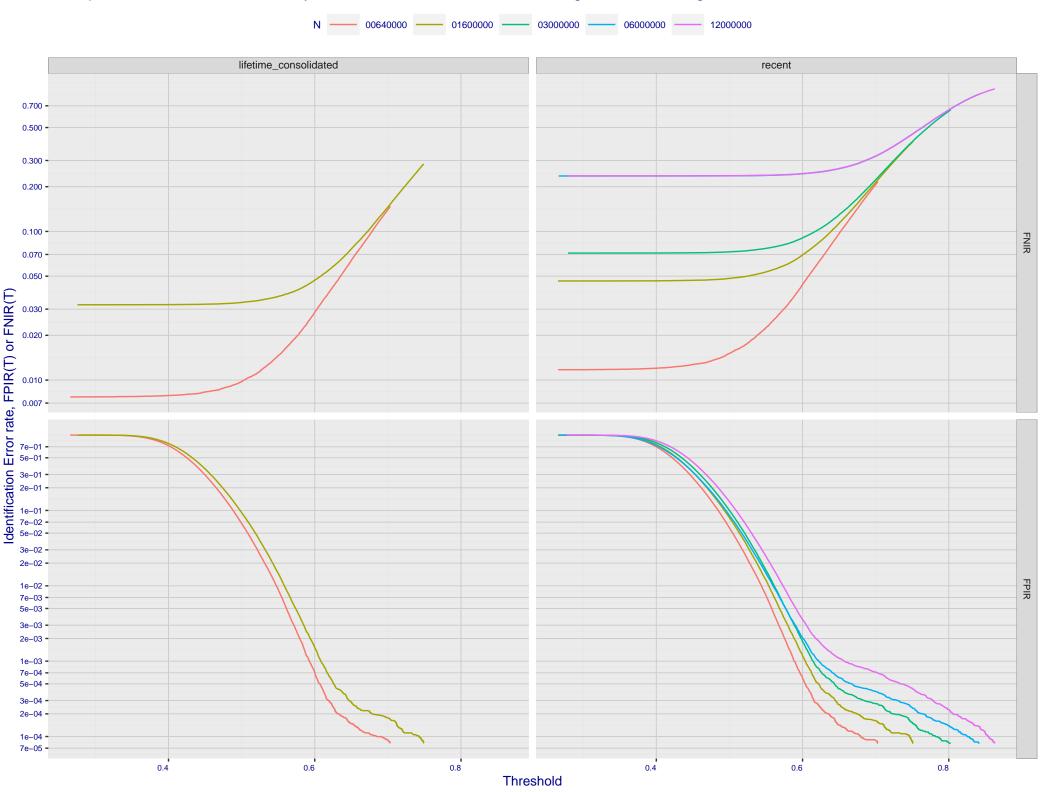
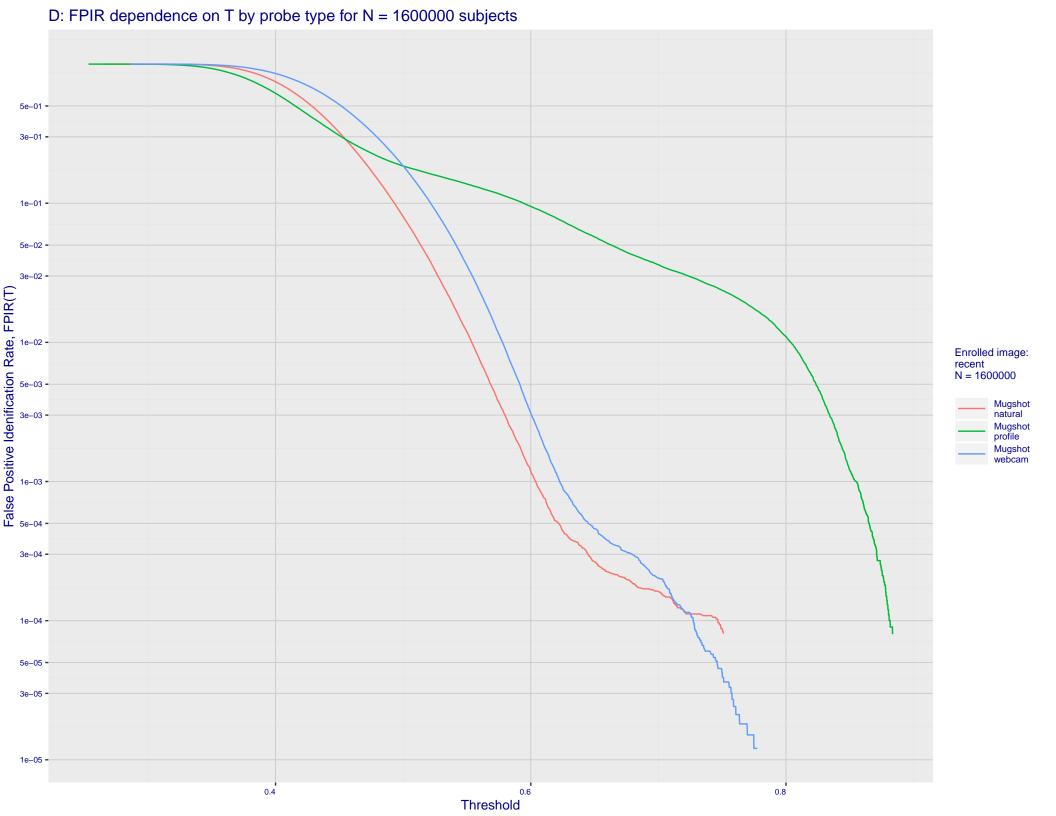
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

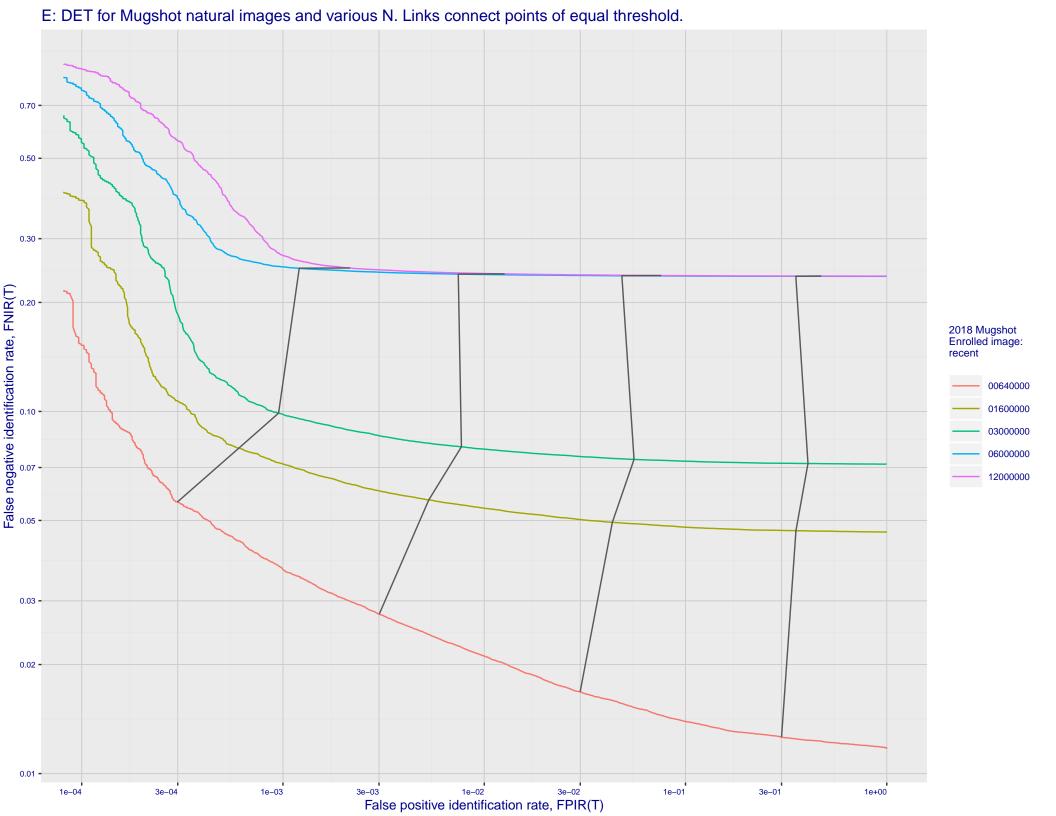


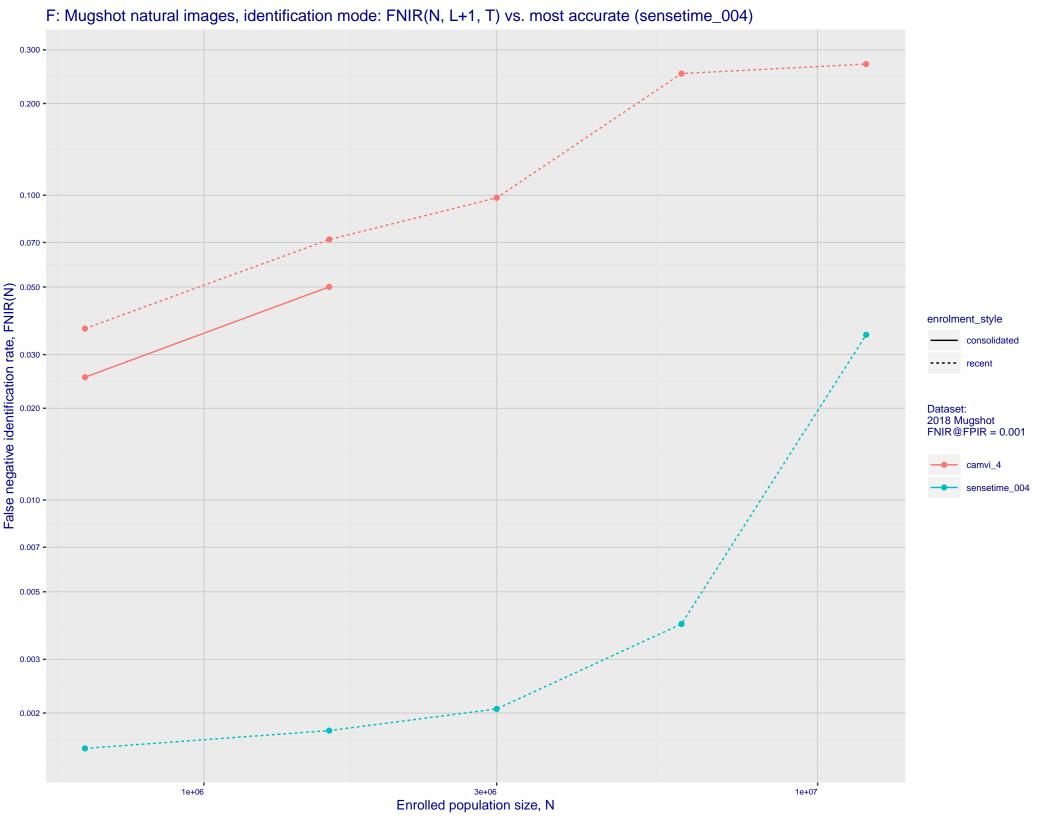
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



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 - 7e-02 - 7e-03 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 -1e-05 3e-05 1e-04 3e-04 1e-01 3e-01 False Positive Idenification Rate, FPIR(T)







G: Datasheet

Algorithm: camvi_4

Developer: Camvi Technologies Submission Date: 2018_10_30

Template size: 1024 bytes

Template time (2.5 percentile): 669 msec

Template time (median): 686 msec

Template time (97.5 percentile): 916 msec

Frontal mugshot investigation rank 188 — FNIR(1600000, 0, 1) = 0.0468 vs. lowest 0.0010 from sensetime_004

natural investigation rank 156 -- FNIR(1600000, 0, 1) = 0.0775 vs. lowest 0.0067 from sensetime_003

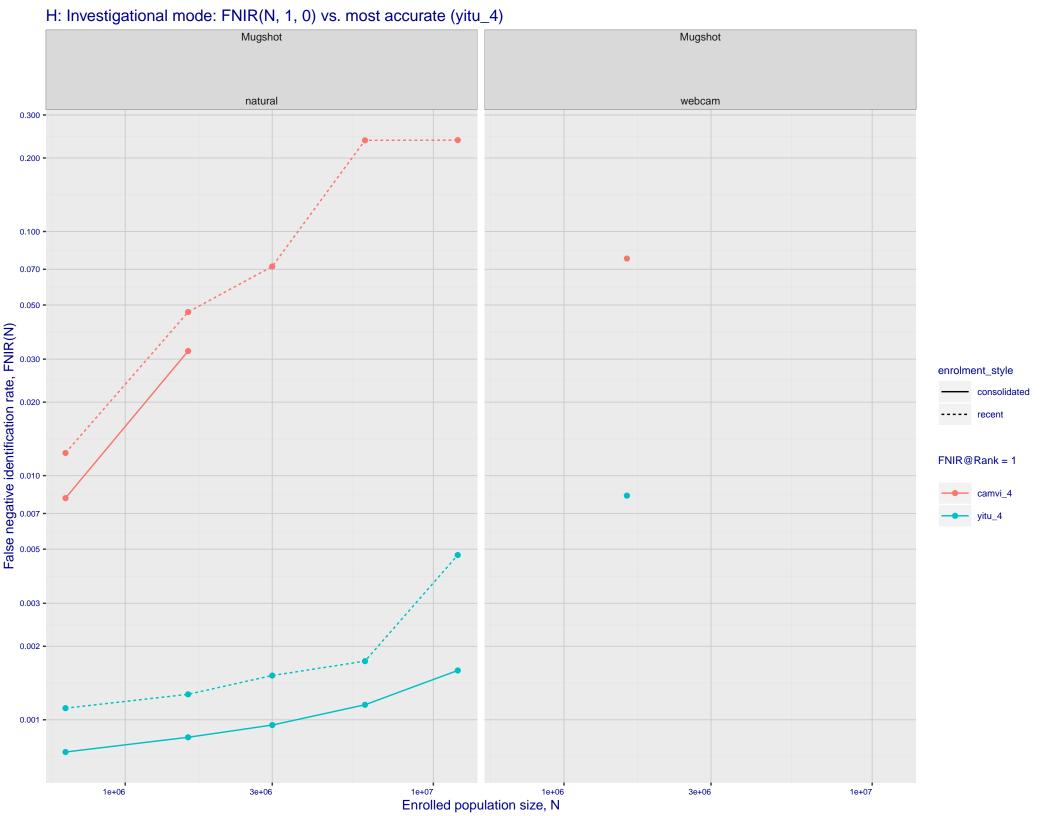
natural investigation rank 129 -- FNIR(1600000, 0, 1) = 0.6028 vs. lowest 0.0492 from paravision_005

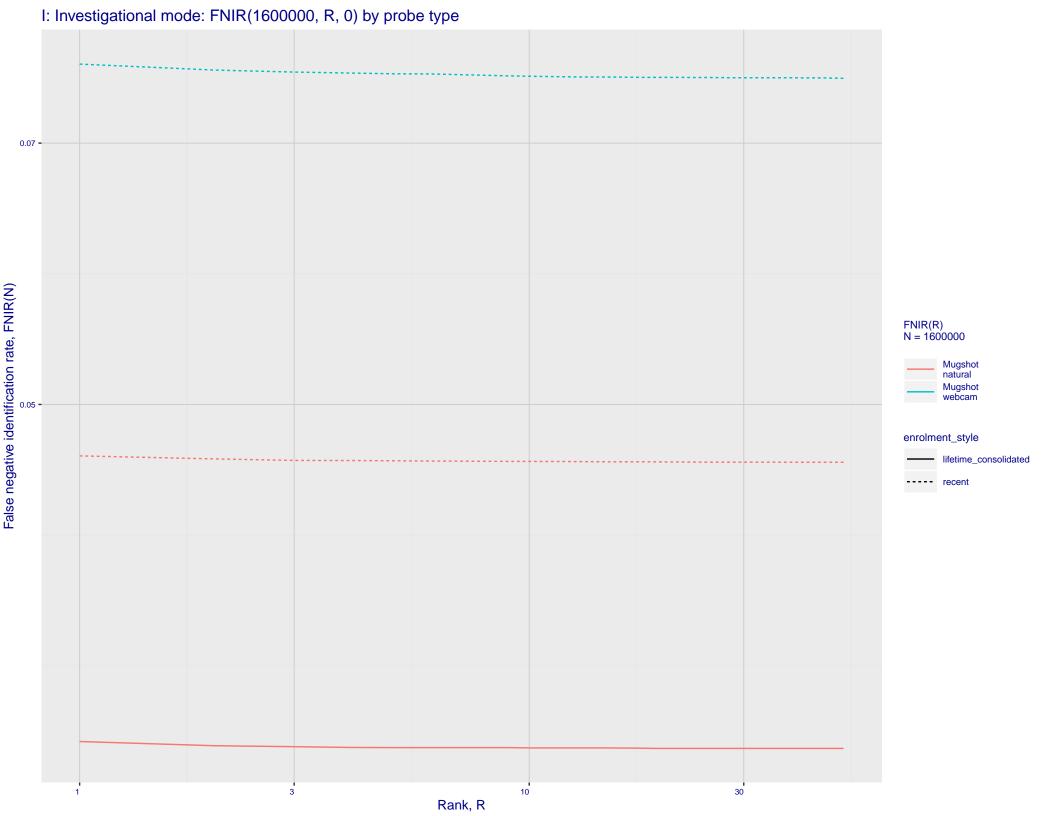
natural investigation rank 129 -- FNIR(1600000, 0, 1) = 0.6028 vs. lowest 0.0492 from paravision_005

Frontal mugshot identification rank 97 — FNIR(1600000, T, L+1) = 0.0716 vs. lowest 0.0018 from sensetime_004

natural identification rank 83 -- FNIR(1600000, T, L+1) = 0.1357 vs. lowest 0.0122 from sensetime_003

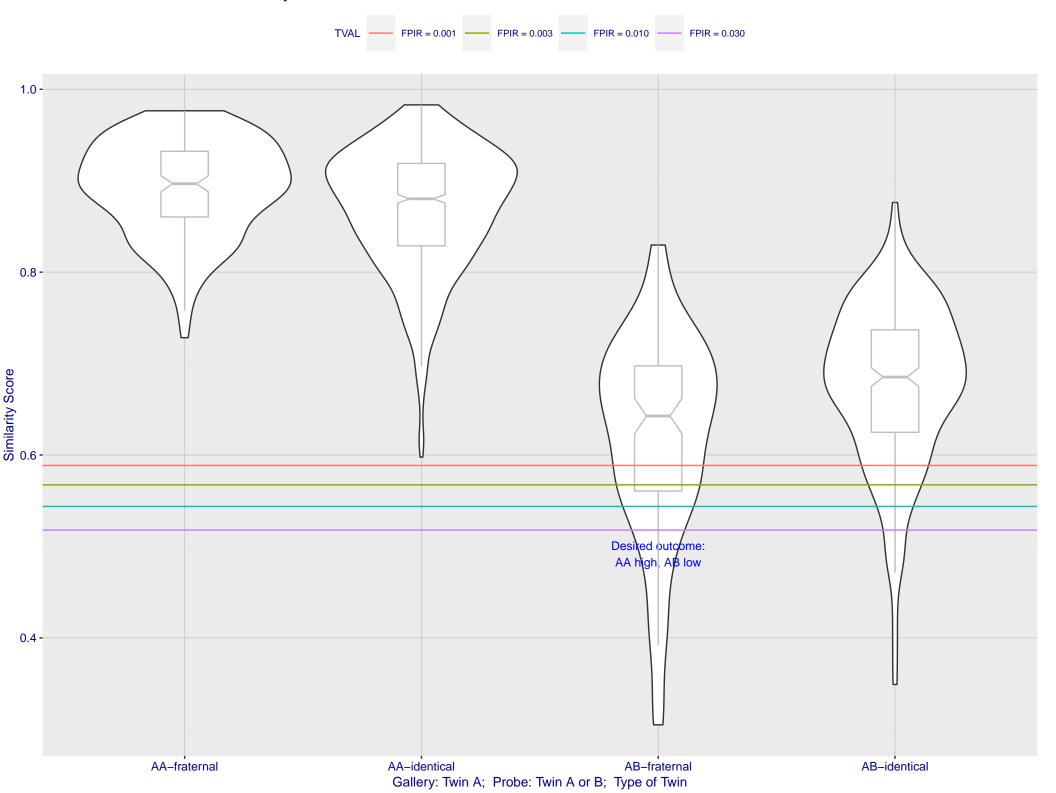
natural identification rank 125 -- FNIR(1600000, T, L+1) = 0.9985 vs. lowest 0.1020 from sensetime_004





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 1000 - Log Model ----- Power Law Model 700 500 -300 200 -100 -70 -50 -30 -20 -1e+07 1e+06 Enrolled population size, N, one image per person

Search Duration (milliseconds)



M: Identification FNIR(N, T, L+1) and Investigational FNIR(N, 0, R) under ageing

