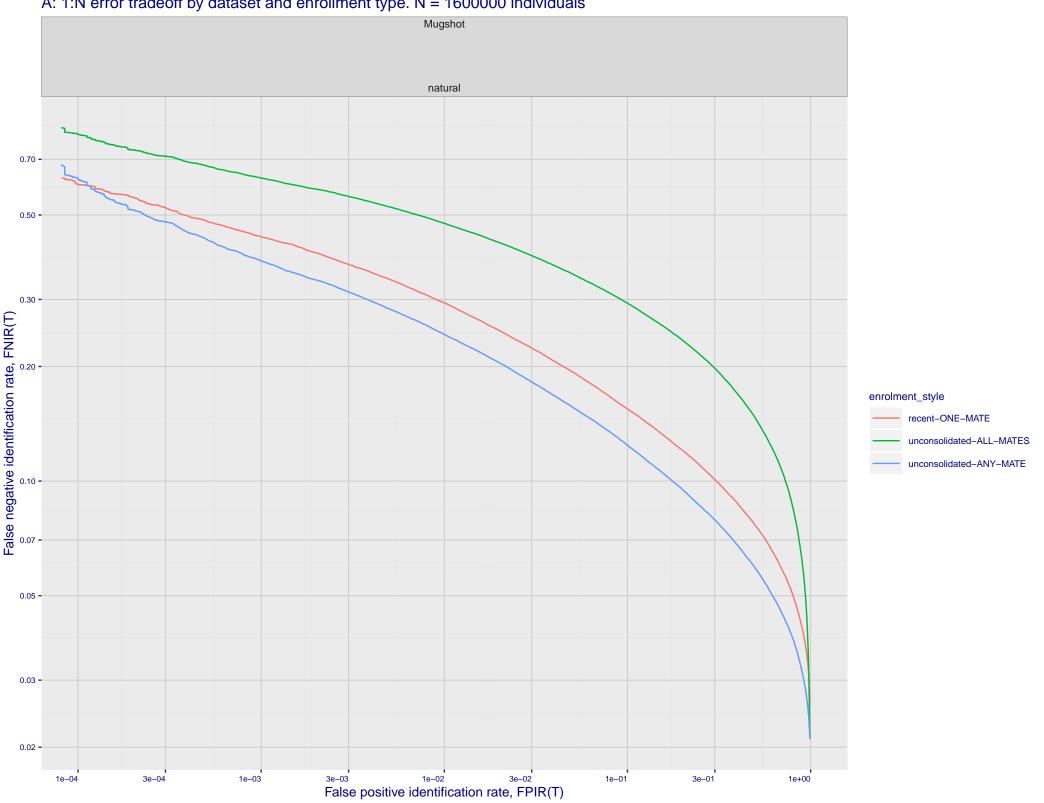
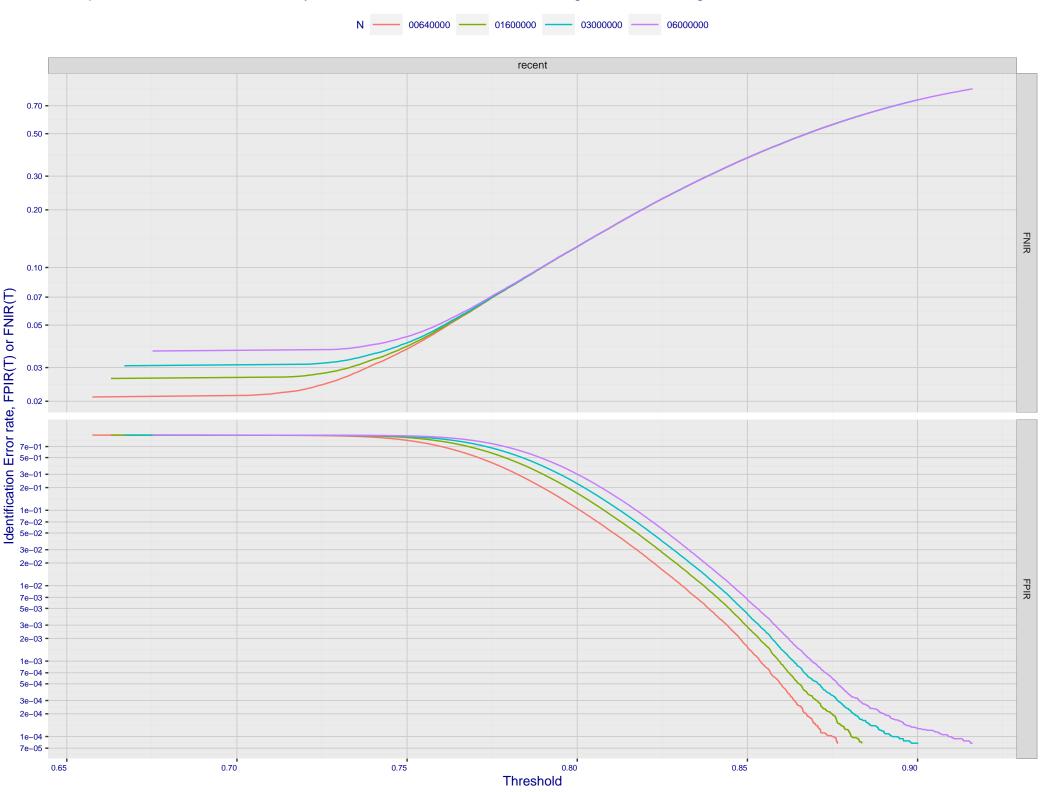
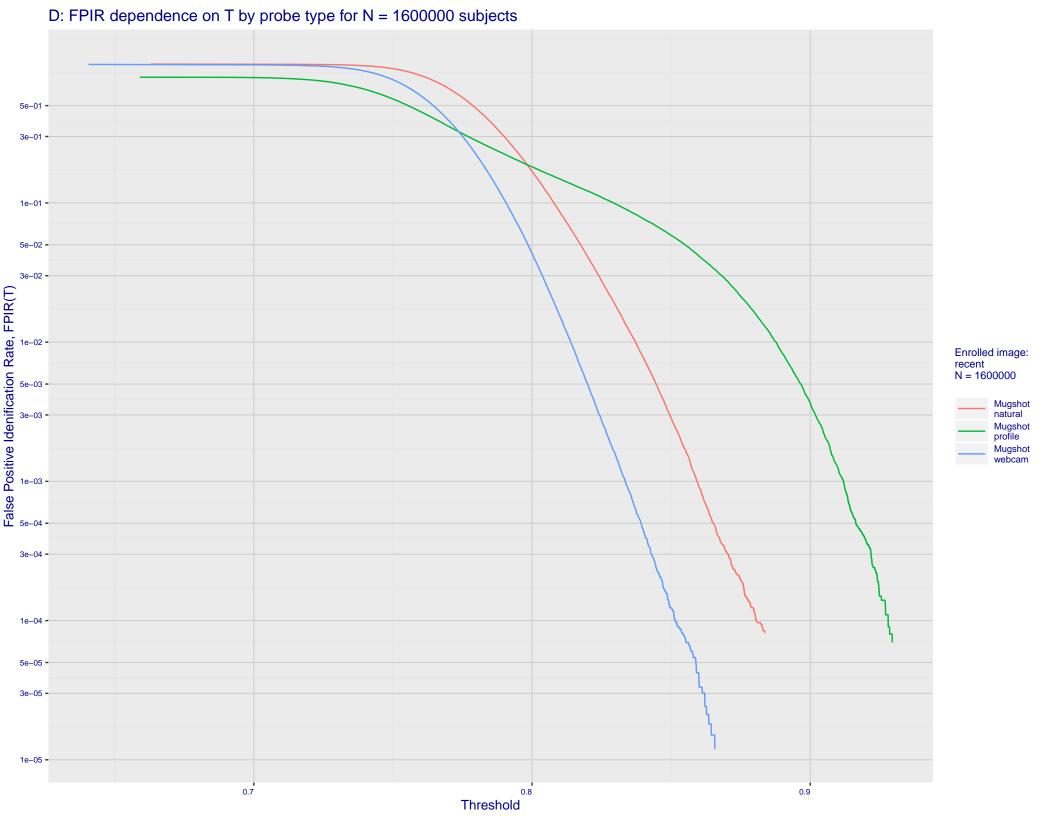
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

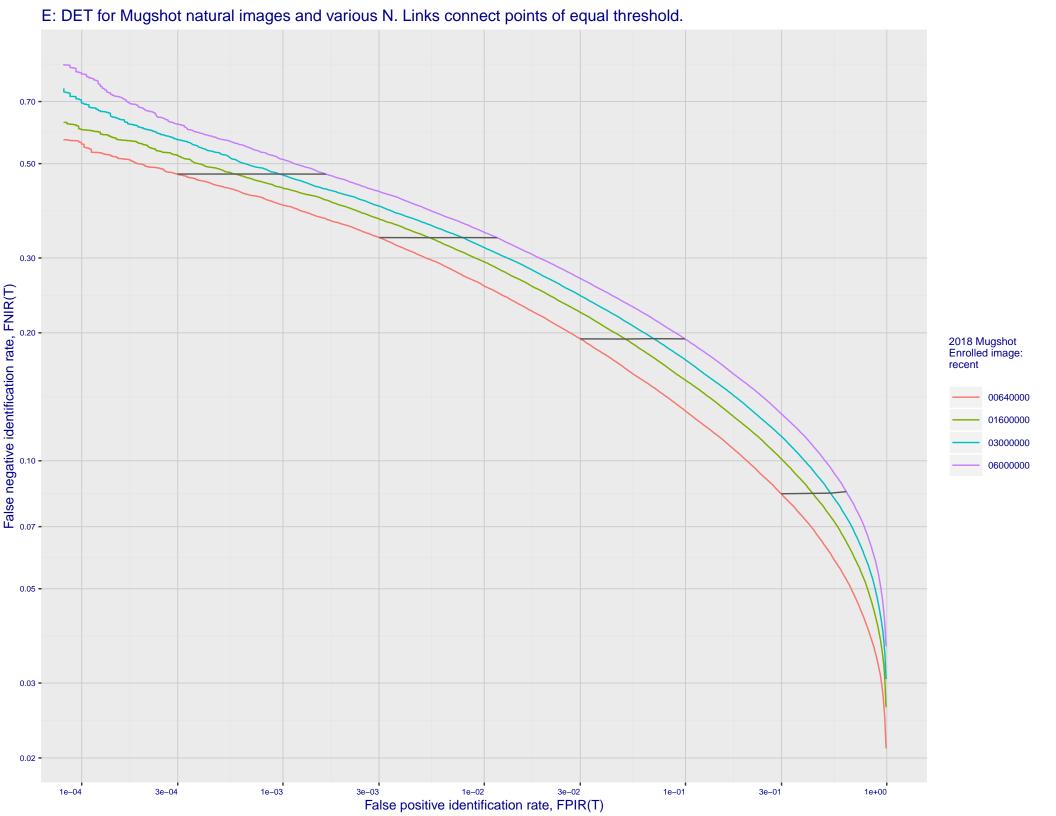


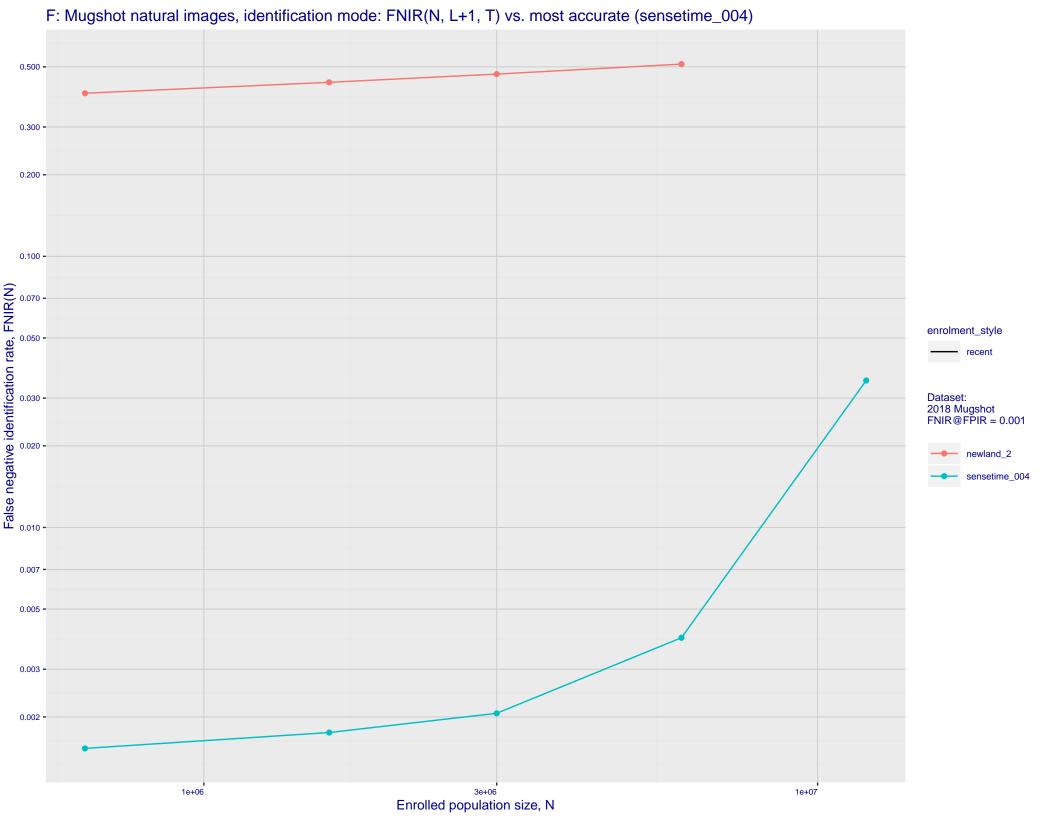
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



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-02 -3e-02 -3e-02 -1e-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: newland_2

Developer: Newland Computer Co Ltd

Submission Date: 2018_10_30

Template size: 2048 bytes

Template time (2.5 percentile): 823 msec

Template time (median): 855 msec

Template time (97.5 percentile): 952 msec

Frontal mugshot investigation rank 201 — FNIR(1600000, 0, 1) = 0.0786 vs. lowest 0.0010 from sensetime_004

natural investigation rank 168 -- FNIR(1600000, 0, 1) = 0.1169 vs. lowest 0.0067 from sensetime_003

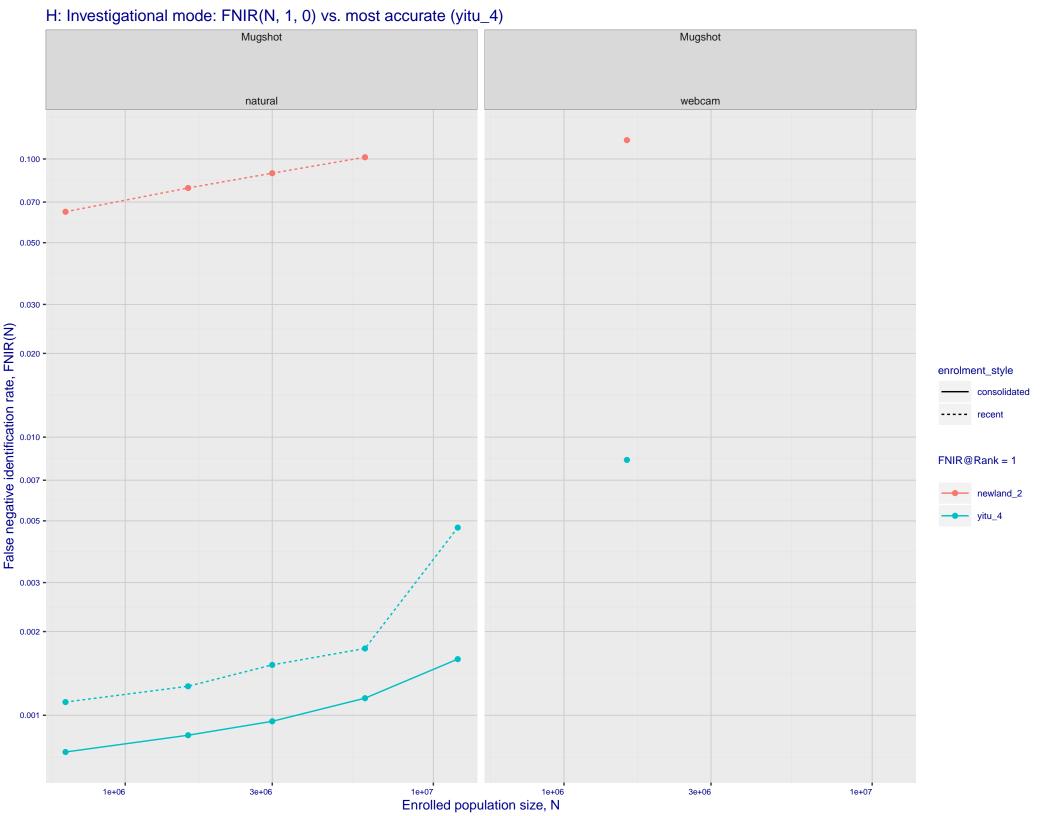
natural investigation rank 205 -- FNIR(1600000, 0, 1) = 0.8538 vs. lowest 0.0492 from paravision_005

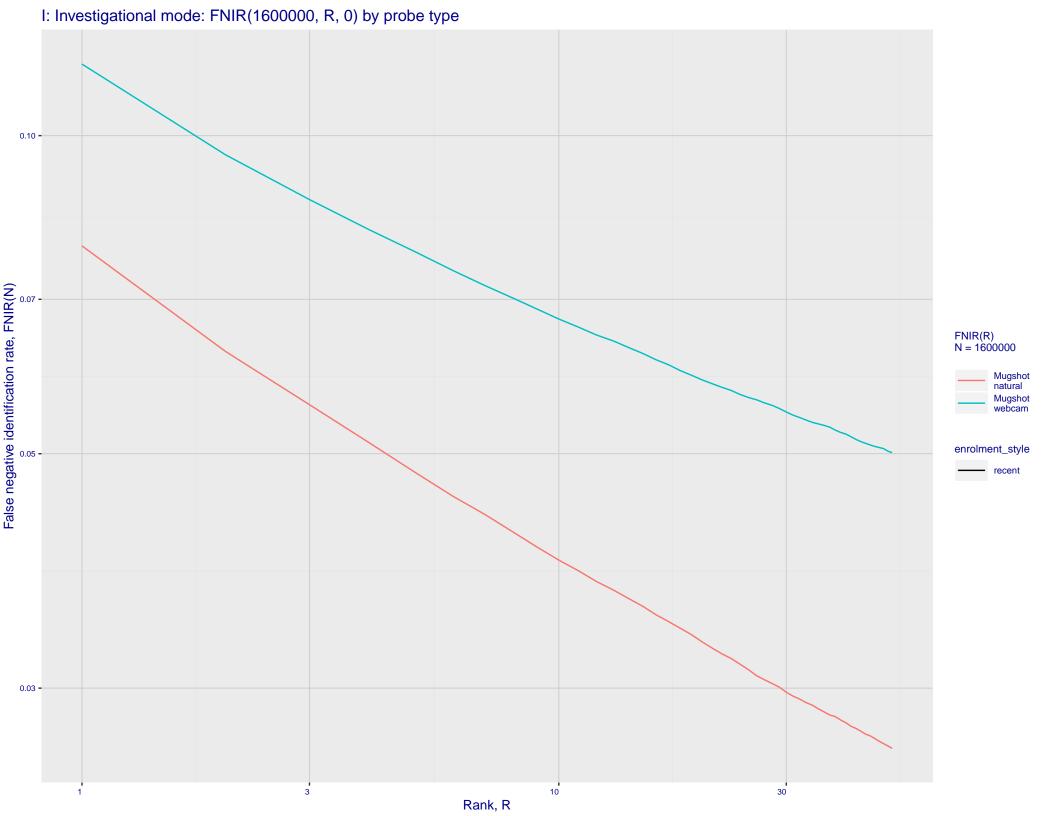
natural investigation rank 205 — FNIR(1600000, 0, 1) = 0.8538 vs. lowest 0.0492 from paravision_005

Frontal mugshot identification rank 200 — FNIR(1600000, T, L+1) = 0.4385 vs. lowest 0.0018 from sensetime_004

natural identification rank 167 -- FNIR(1600000, T, L+1) = 0.4657 vs. lowest 0.0122 from sensetime_003

natural identification rank 120 -- FNIR(1600000, T, L+1) = 0.9982 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

