A: Datasheet

Algorithm: fujitsulab_000

Developer: [**Developer name**]

Submission Date: 2021_10_12

Template size: 1032 bytes

Template time (2.5 percentile): 914 msec

Template time (median): 945 msec

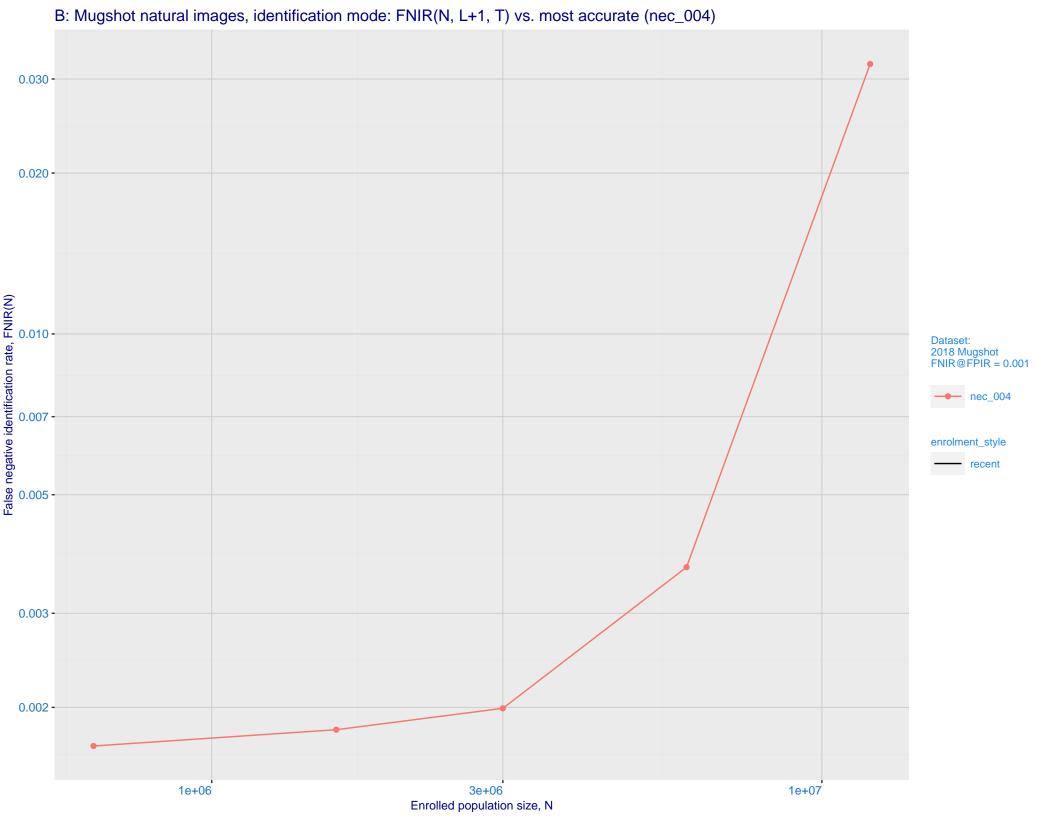
Template time (97.5 percentile): 998 msec

Investigation:

Mugshot webcam ranking 62 (out of 269) -- FNIR(1600000, 0, 1) = 0.0137 vs. lowest 0.0057 from sensetime_006

Identification:

Mugshot webcam ranking 50 (out of 267) -- FNIR(1600000, T, L+1) = 0.0560, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003

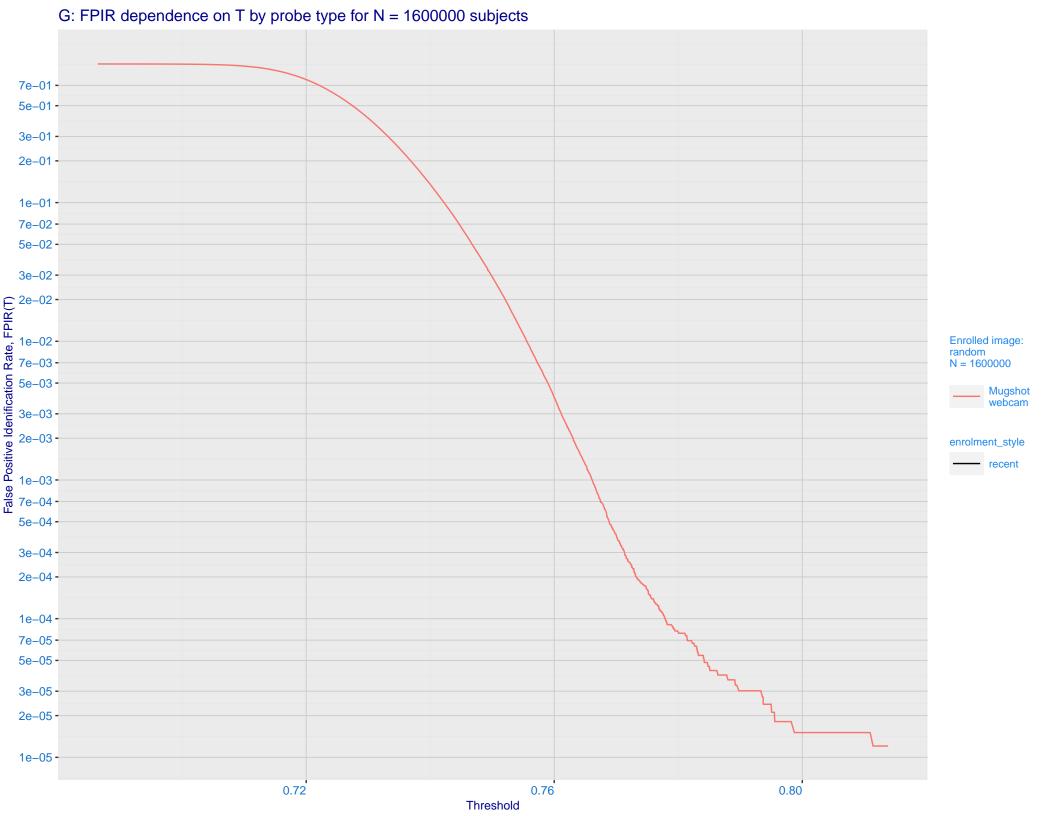


Date algorithm submitted to FRVT

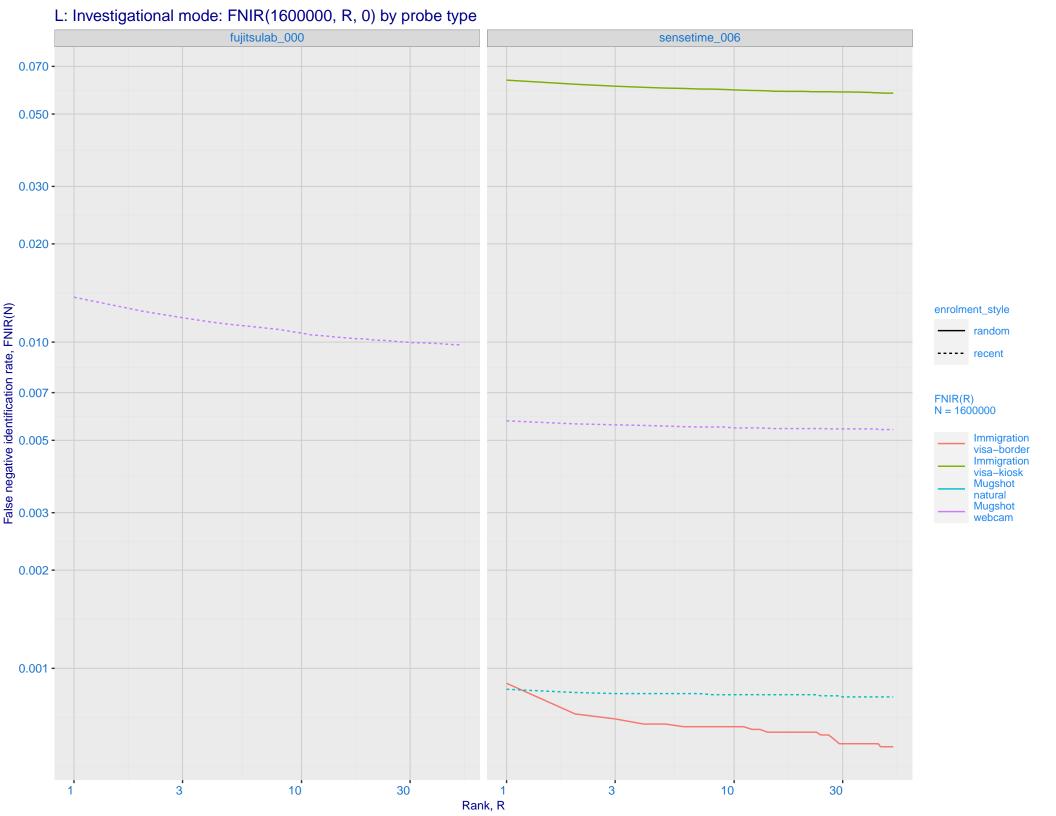
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals Immigration Immigration Mugshot visa-border visa-kiosk natural 0.700 -0.500 -0.300 -0.200 -0.100 -False negative identification rate, FNIR(T) enrolment_style random-ONE-MATE recent-ONE-MATE 0.010 -0.007 -0.005 -0.003 -0.002 - $0.001 - \frac{1}{10^{2}} - \frac{1}{10^{2}$

False positive identification rate, FPIR(T)

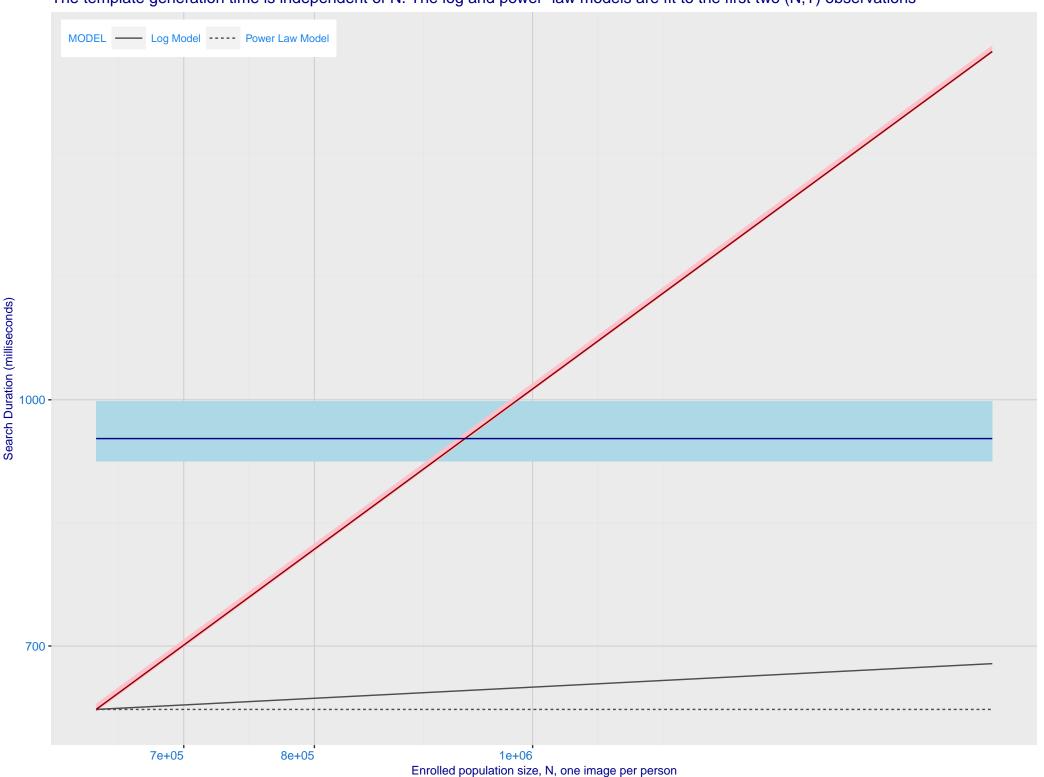
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate 7e+01 -5e+01 -3e+01 -2e+01 -1e+01 -7e+00 -5e+00 -3e+00 -2e+00 -1e+00 -7e-01 -5e-01 -3e-01 -2e-01 -1e-01 -Selectivity. SEL(T) 5e-02 - 5e-02 - 5e-02 - 1e-02 - 1 Enrolled images: recent N = 1600000 Mugshot webcam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



K: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_006) Immigration **Immigration** visa-border visa-kiosk 0.070 -0.050 -0.030 -0.020 -0.010 -0.007 -0.005 -0.003 -Ealse negative identification rate, FNIR(N) - 0.000 - FNIR@Rank = 1 fujitsulab_000 sensetime_006 Mugshot natural Mugshot webcam enrolment_style random ---- recent 0.020 -0.010 -0.007 -0.005 -0.003 -0.002 -0.001 -1e+06 3e+06 1e+07 1e+06 3e+06 1e+07 Enrolled population size, N



M: 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



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



