## A: Datasheet

Algorithm: tiger\_1

Developer: TigerIT Americas LLC

Submission Date: 2018\_06\_27

Template size: 2052 bytes

Template time (2.5 percentile): 363 msec

Template time (median): 396 msec

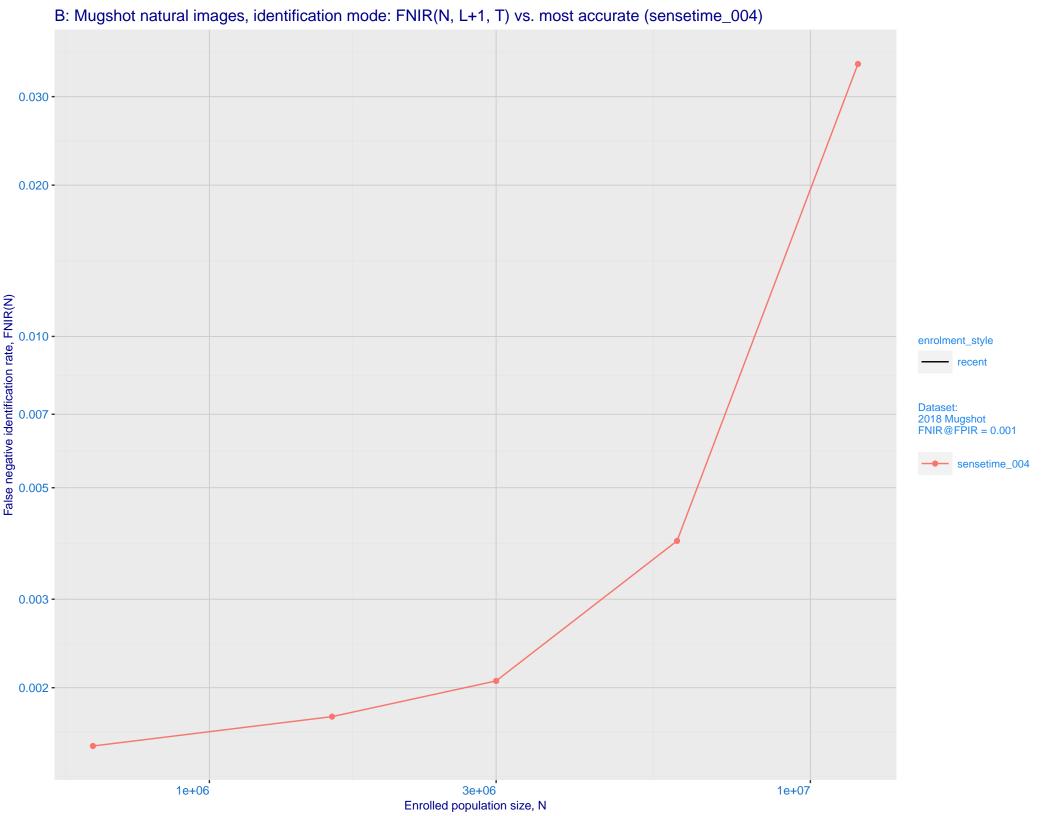
Template time (97.5 percentile): 446 msec

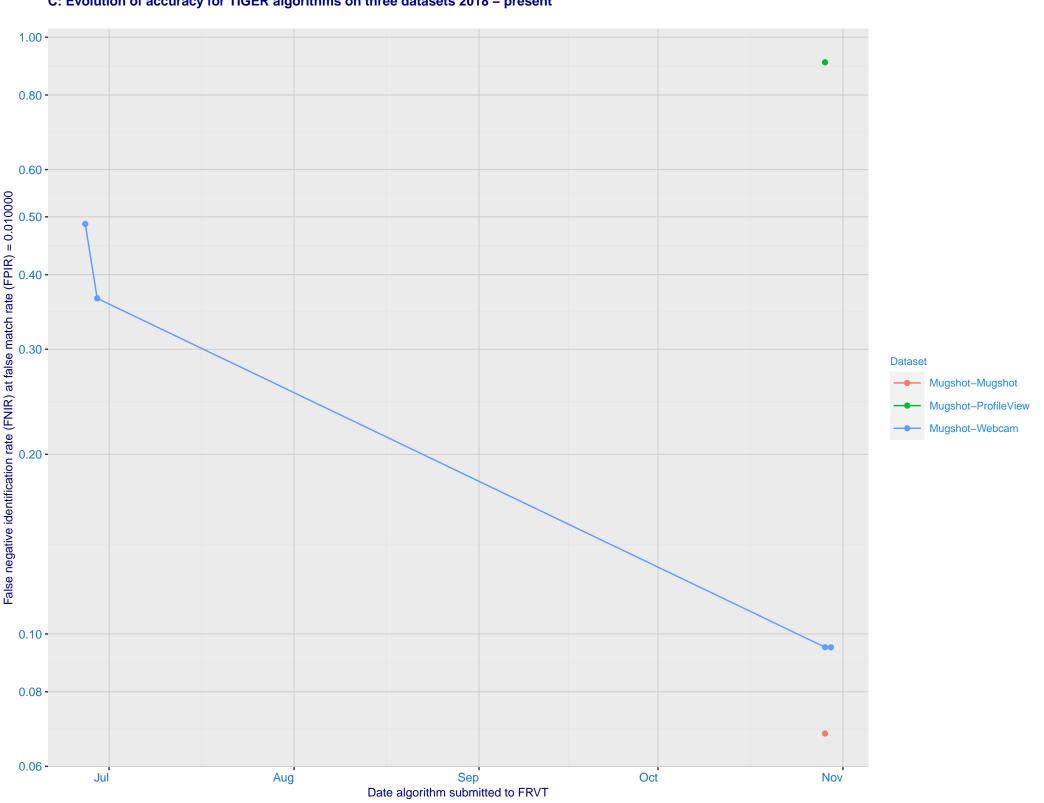
Investigation:

Mugshot webcam ranking 219 (out of 241) -- FNIR(1600000, 0, 1) = 0.3508 vs. lowest 0.0062 from sensetime\_005

Identification:

Mugshot webcam ranking 197 (out of 236) -- FNIR(1600000, T, L+1) = 0.5793, FPIR=0.001000 vs. lowest 0.0122 from sensetime\_003

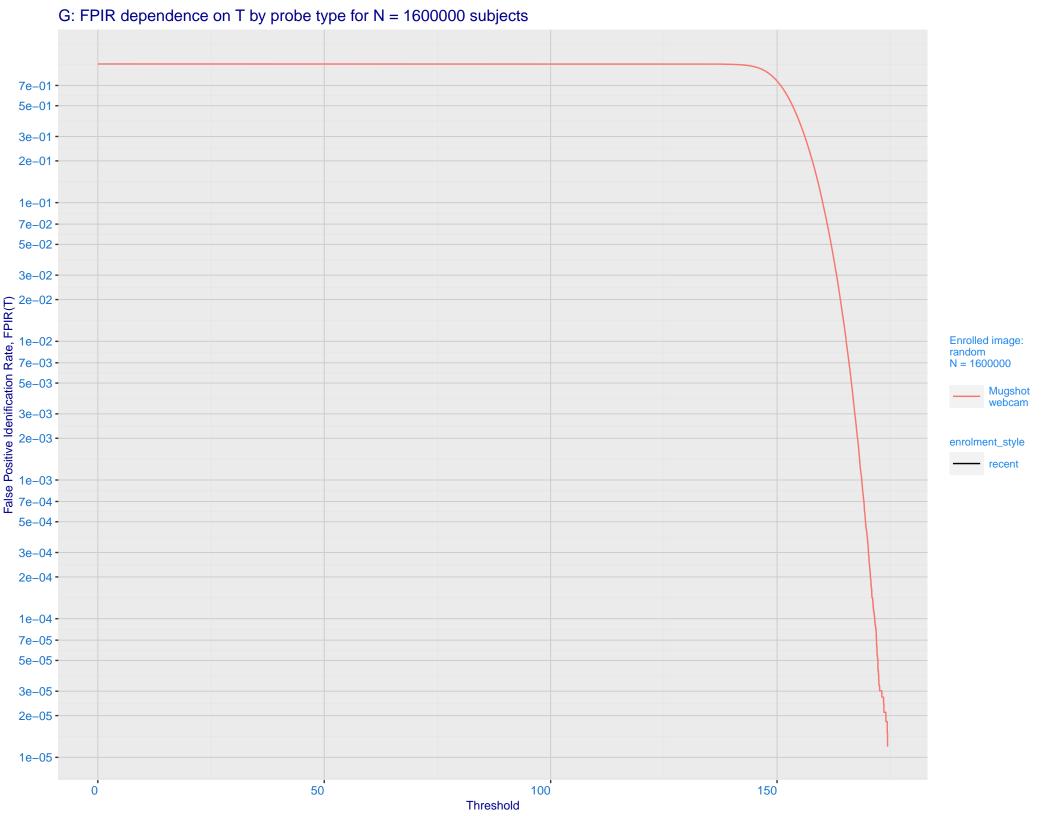




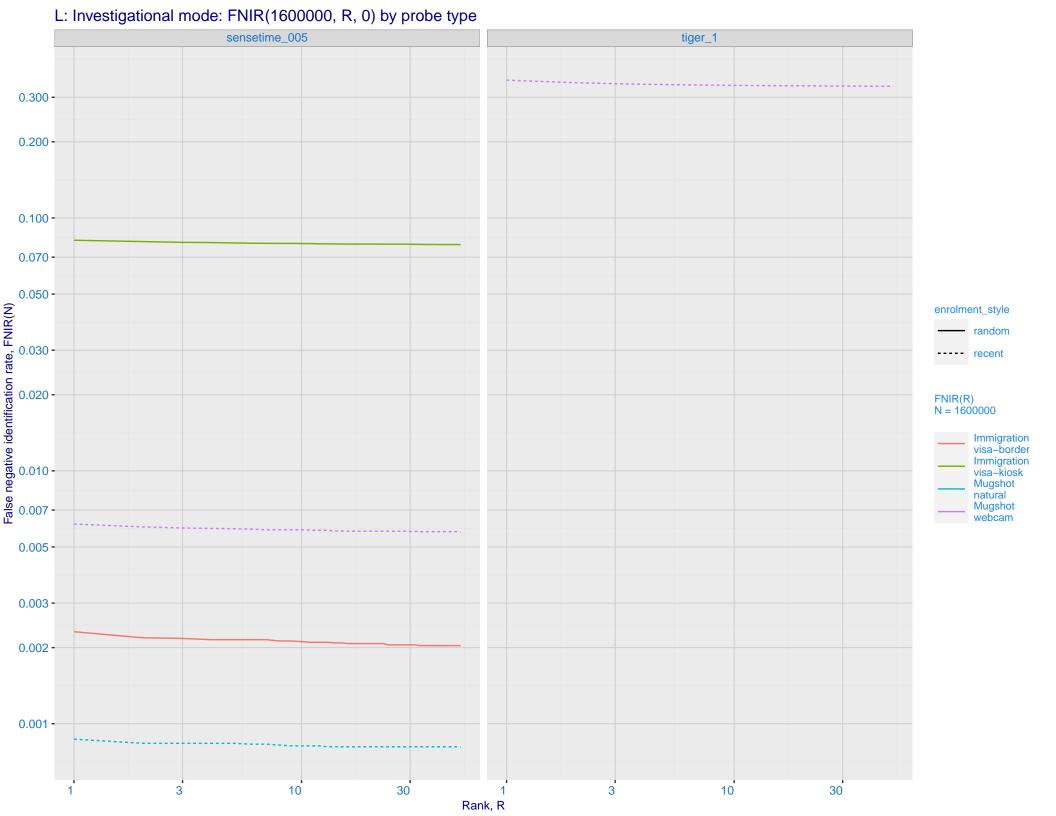
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals Immigration Immigration Mugshot visa-border visa-kiosk natural 0.700 -0.500 -0.300 -0.200 -0.100 -Ealse negative identification rate, FNIR(T) 0.000 - 0. enrolment\_style random-ONE-MATE recent-ONE-MATE 0.007 -0.005 -0.003 -0.002 -0.001 -

False positive identification rate, FPIR(T)

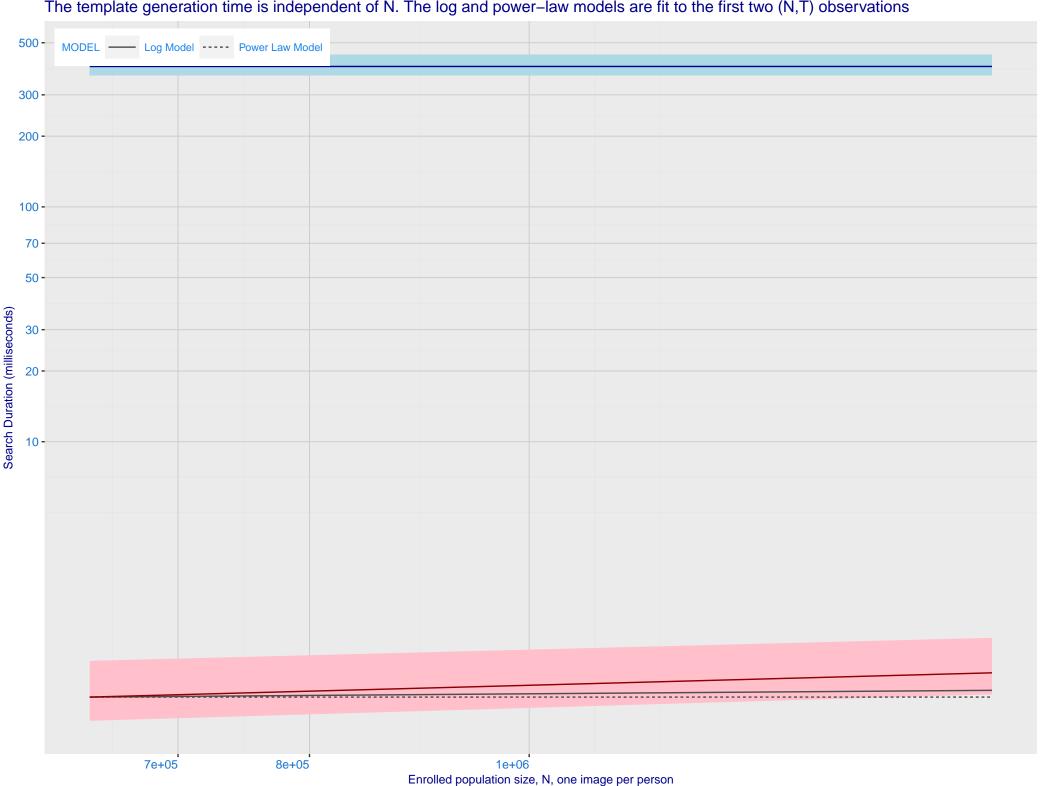
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate 7e+01 -5e+01 -3e+01 -2e+01 -1e+01 -7e+00 -5e+00 -3e+00 -2e+00 -1e+00 -7e-01 -5e-01 -3e-01 -2e-01 -1e-01 -7e-02 -5e-02 -3e-02 -3e-02 -1e-02 -Enrolled images: recent N = 1600000 Mugshot webcam 7e-03 -5e-03 -3e-03 -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-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\_005) Immigration **Immigration** visa-border visa-kiosk 0.300 -0.200 -0.100 -0.070 -0.050 -0.030 -0.020 -0.010 -0.007 -0.005 -Palse negative identification rate, FNIR(N) 0.003 - 0.001 - 0.300 - 0.200 - 0.100 - 0. enrolment\_style - random ---- recent Mugshot Mugshot webcam natural FNIR@Rank = 1 sensetime\_005 tiger\_1 0.070 -0.050 -0.030 -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



