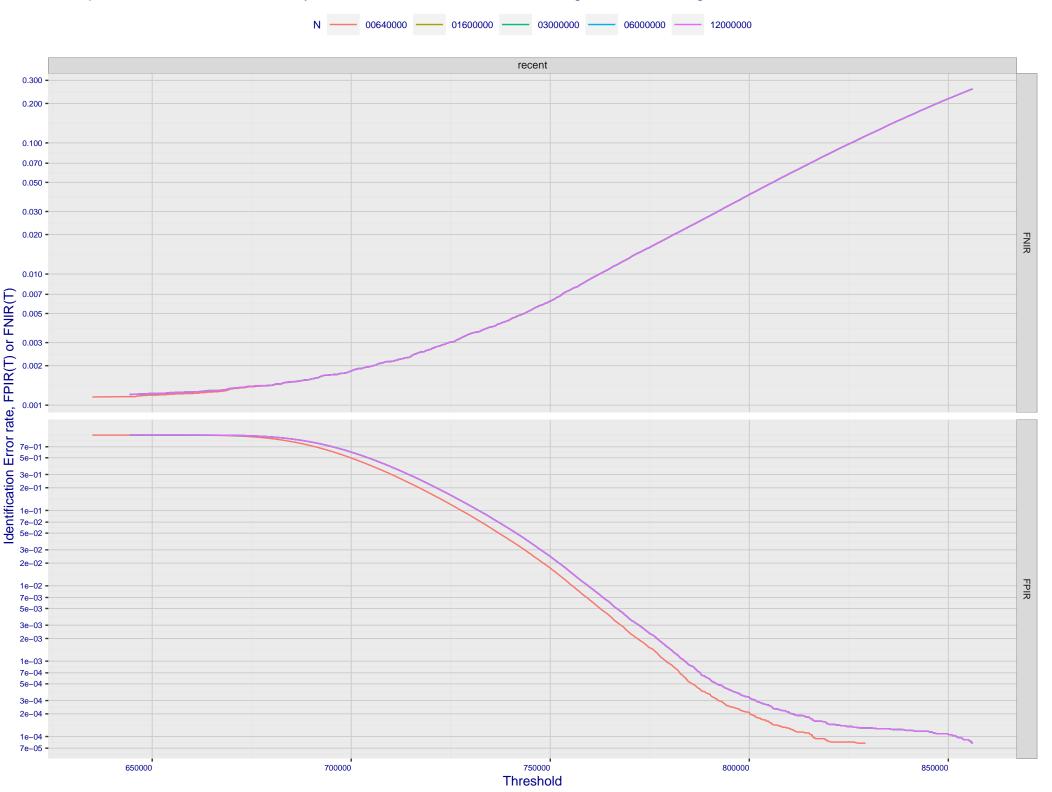
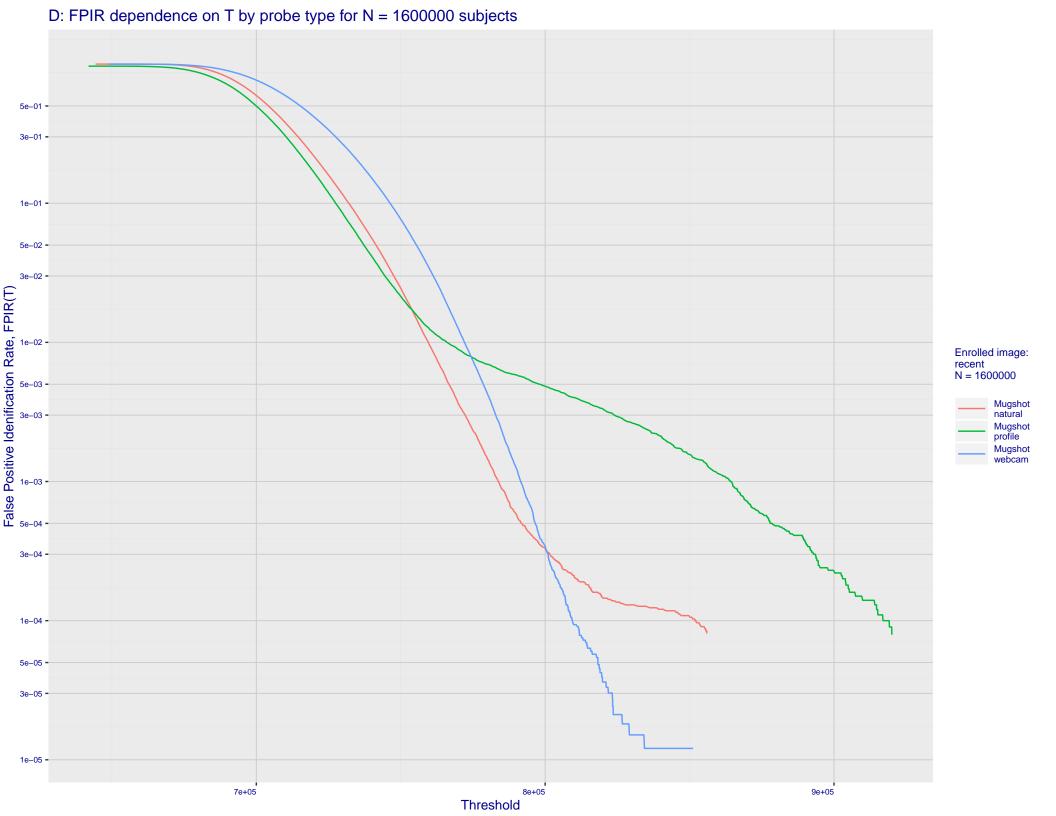
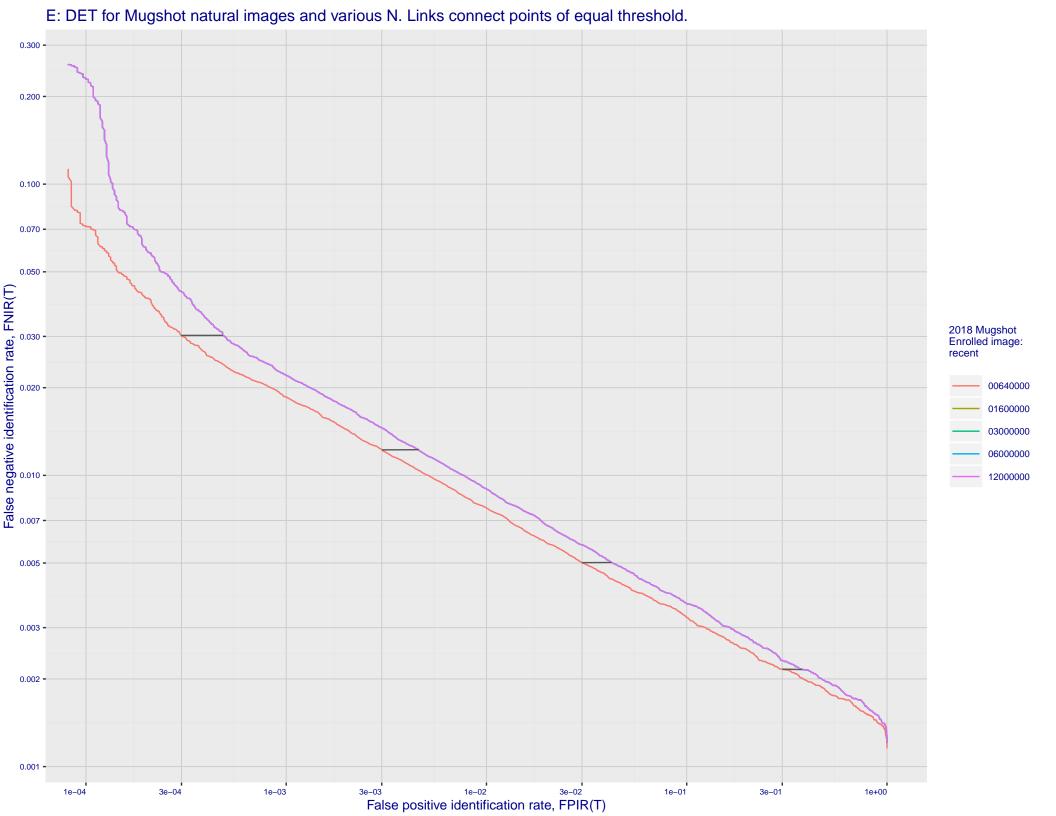


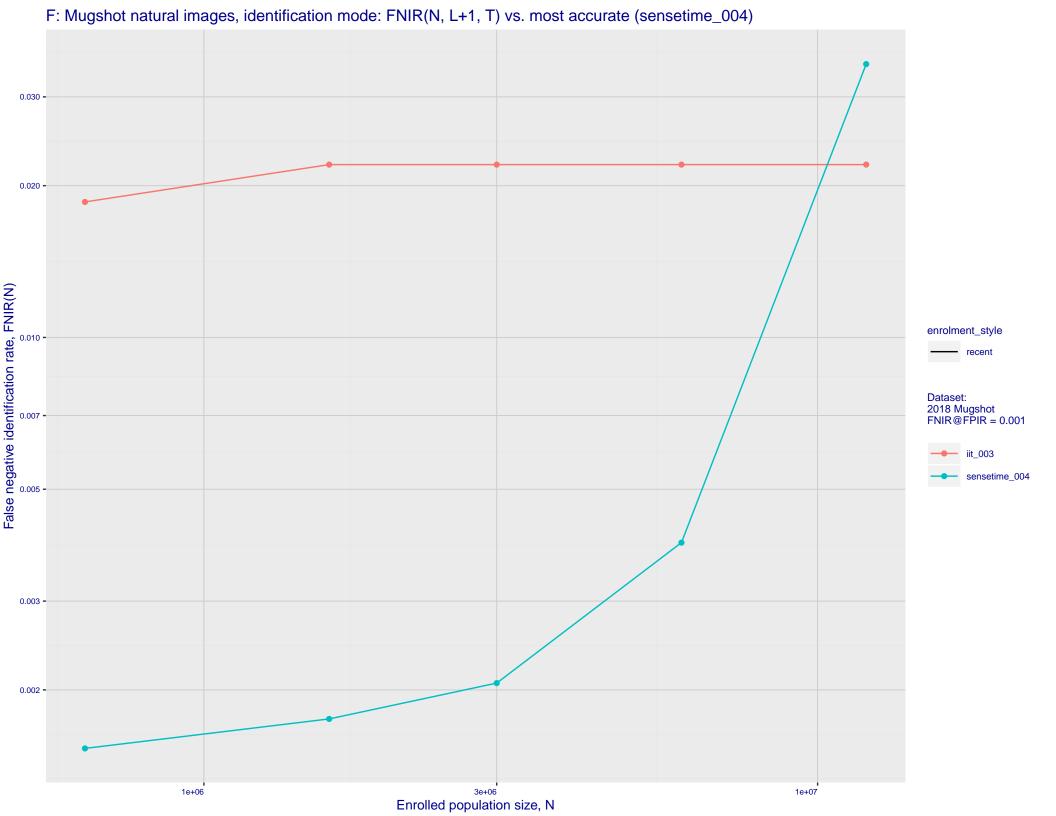
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



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)



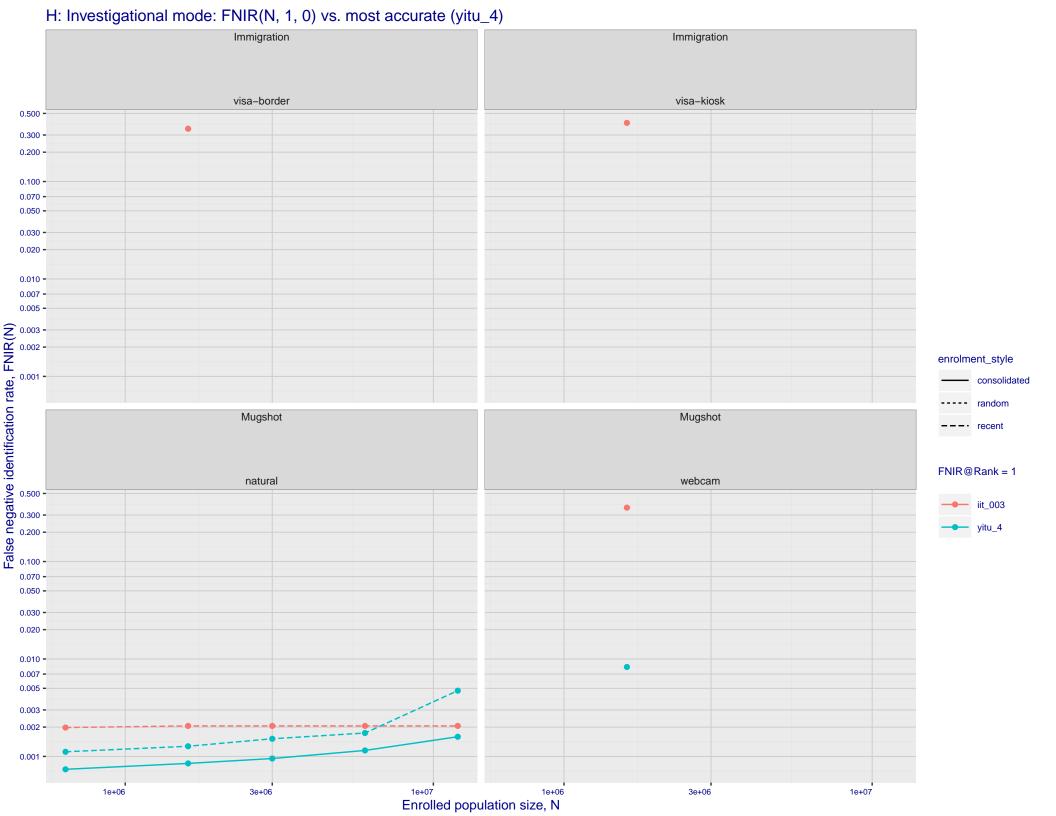


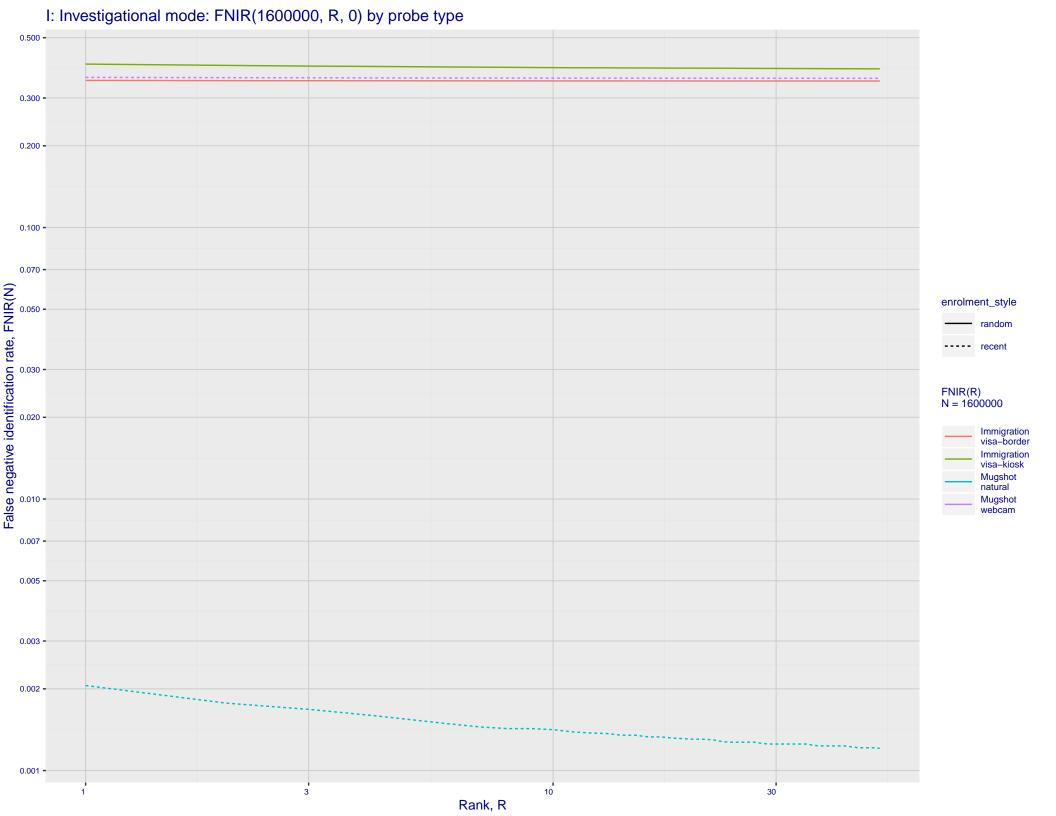


G: Datasheet

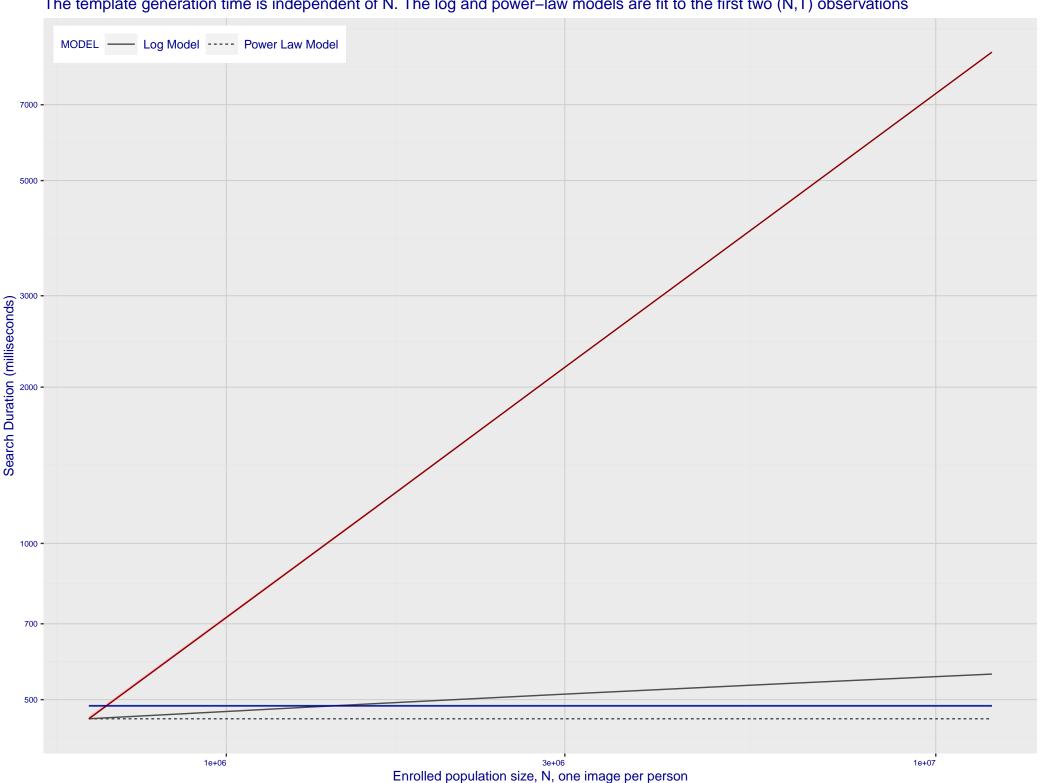
Algorithm: iit_003 Developer: Institute of Information Technologies Submission Date: 2020_12_01 Template size: 2048 bytes Template time (2.5 percentile): 485 msec Template time (median): 486 msec Template time (97.5 percentile): 489 msec Frontal mugshot investigation rank 25 -- FNIR(1600000, 0, 1) = 0.0021 vs. lowest 0.0010 from sensetime_004 natural investigation rank 194 -- FNIR(1600000, 0, 1) = 0.3573 vs. lowest 0.0067 from sensetime_003 natural investigation rank 21 -- FNIR(1600000, 0, 1) = 0.1150 vs. lowest 0.0492 from paravision_005 natural investigation rank 21 -- FNIR(1600000, 0, 1) = 0.1150 vs. lowest 0.0492 from paravision_005 natural investigation rank 90 -- FNIR(1600000, 0, 1) = 0.3482 vs. lowest 0.0014 from visionlabs_009 natural investigation rank 89 -- FNIR(1600000, 0, 1) = 0.3999 vs. lowest 0.0694 from cib_000 Frontal mugshot identification rank 31 -- FNIR(1600000, T, L+1) = 0.0220 vs. lowest 0.0018 from sensetime_004 natural identification rank 158 -- FNIR(1600000, T, L+1) = 0.3960 vs. lowest 0.0122 from sensetime_003 natural identification rank 46 -- FNIR(1600000, T, L+1) = 0.9491 vs. lowest 0.1020 from sensetime_004 natural identification rank 72 -- FNIR(1600000, T, L+1) = 0.3716 vs. lowest 0.0059 from sensetime_004

natural identification rank 47 -- FNIR(1600000, T, L+1) = 0.4883 vs. lowest 0.1129 from visionlabs_009





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



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

