

1PlusX_837817

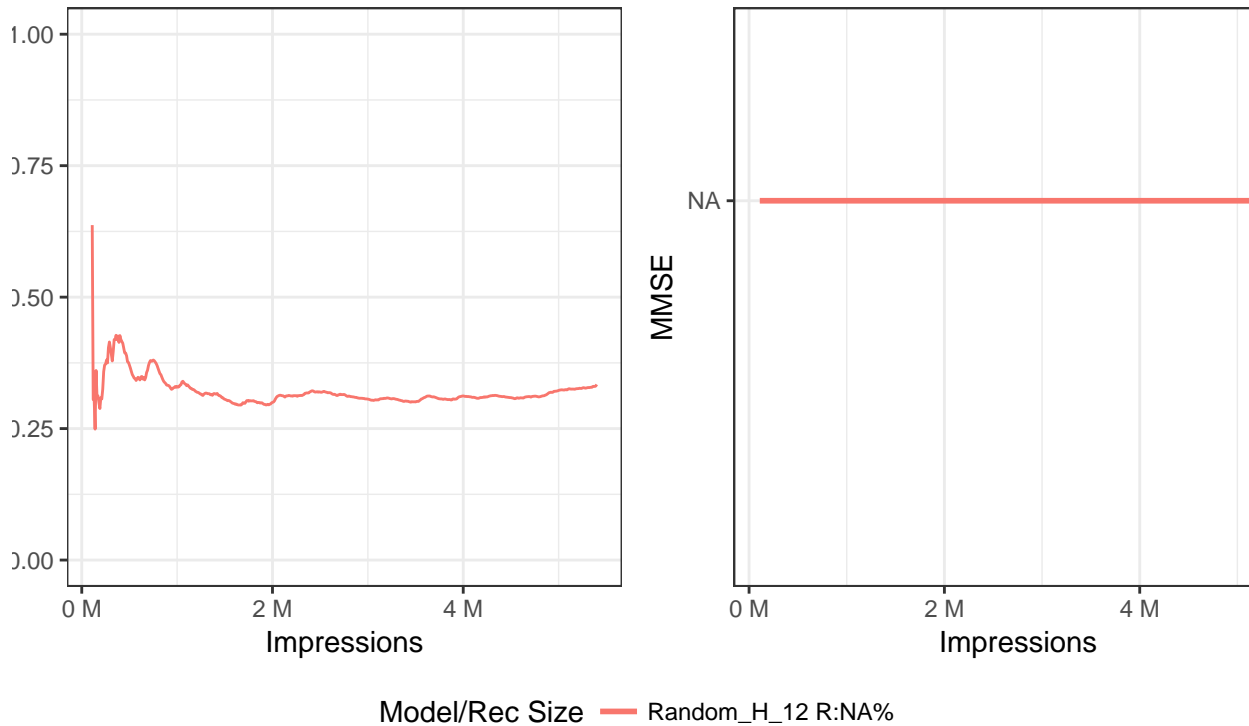
Ana Dimitrova

7/24/2018

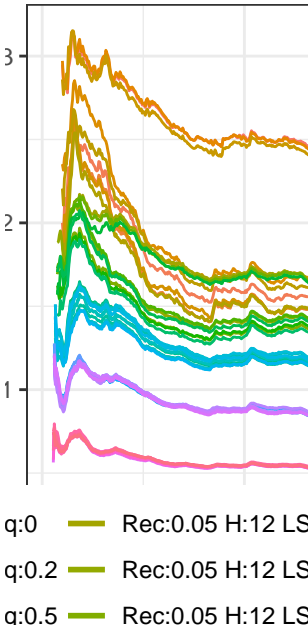
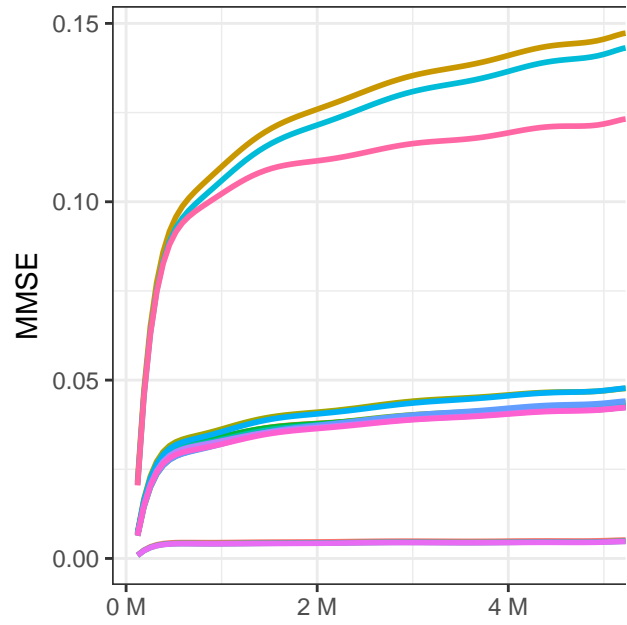
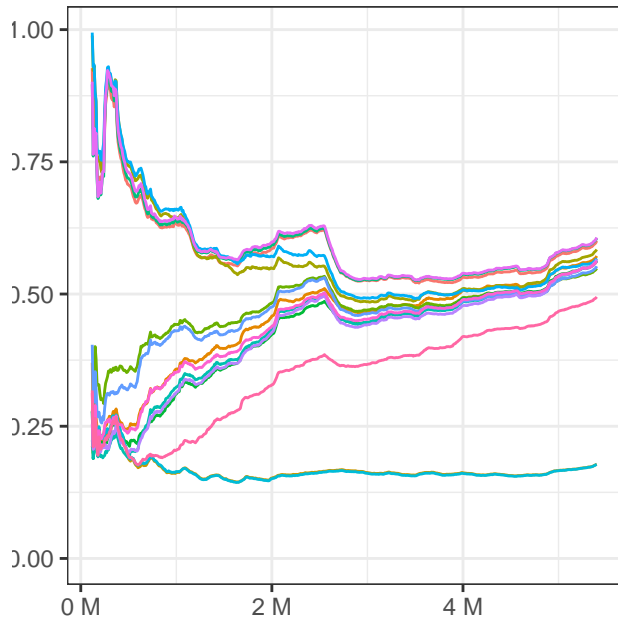
Comparison between CTR and MSE for Random when for assignment are used discrete values - $\{0,1\}$ or float between $[0, 1]$. When doing the math for uniform distribution it's clear that the expectation should be a bit above 33% (since we have very few 1s we can approximate the error if we get only 0s). $E[(0 - A)^2] = E[0^2] - E[0 \cdot A] + E[A^2] = \text{var}(A) + E[A]^2 = 1/12 + 1/4 = 1/3$ And the expectation for the discrete values $\{0, 1\}$ is clearly 0.5%. In terms of CTR both perform equally around 0.18.

```
## Warning in strptime(xx, f <- "%Y-%m-%d %H:%M:%OS", tz = tz): unknown
## timezone 'zone/tz/2018c.1.0/zoneinfo/Europe/Sofia'
```

Random – Evaluation of Rec. size and sampling choices.

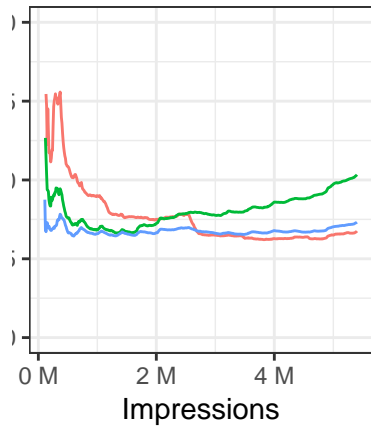


GP Evaluation of parameters and kernels

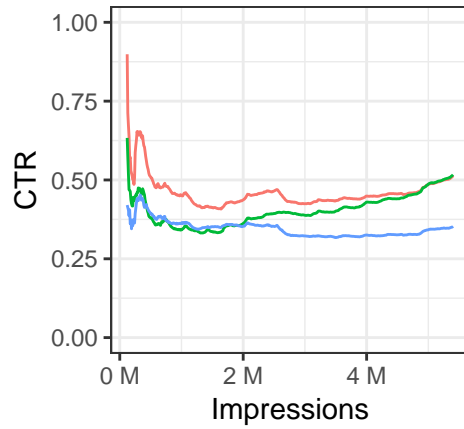


Nu:1.5 H:12 LS:100 CL:20 Eq:0.2 Nu:2.5 H:12 LS:100 CL:10 Eq:0 Nu:2.5 H:12 LS:100 CL:20 Eq:0.0 Rec:0.05 H:12 LS:100 CL:20 Eq:0.2
 Nu:1.5 H:12 LS:200 CL:10 Eq:0.2 Nu:2.5 H:12 LS:100 CL:10 Eq:0.2 Nu:2.5 H:12 LS:200 CL:10 Eq:0.0 Rec:0.05 H:12 LS:100 CL:20 Eq:0.2
 Nu:1.5 H:4 LS:100 CL:10 Eq:0.2 Nu:2.5 H:12 LS:100 CL:10 Eq:0.5 Nu:2.5 H:4 LS:100 CL:10 Eq:0.2 Rec:0.05 H:12 LS:100 CL:20 Eq:0.2

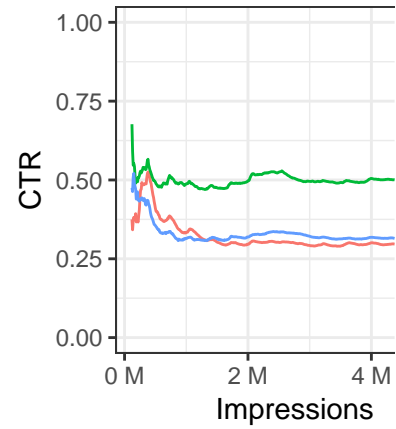
Rec Change-EQ:0.2



LRate Change



LRate Change-EC



Rec: 10% 20% 50%

LRate: 0.001 0.01 1e-5

LRate: 0.001 0.01

Regression Evaluation of parameters and kernels

