File List

data

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u1base.mat–u5base.mat %training data sets of ml–100k
u1test.mat–u5test.mat %test data sets of ml–100k
uabase.mat–uabase.mat %training data sets of ml–100k
ubtest.mat–ubtest.mat %test data sets of ml–100k
R.mat %data for comparison with (\cite{Huang2018Rating})

ratings.mat %the whole Netflix data set
netfset.mat %the data sets for the experiments on Netflix
netfpct_us.mat %experimental results of dependence on the percentage
netfpct_us1.mat %experimental results of dependence on the percentage
netfpct_it.mat %experimental results of dependence on the percentage
netfpct_it1.mat %experimental results of dependence on the percentage

param_rrs_us.mat %influence of weight parameters r
param_rrs_it.mat % influence of weight parameters r
param_pct_rrs_us.mat %influence of weight parameters r
param_pct_rrs_it.mat %influence of weight parameters r

param_beta_us.mat %influence of parameters \beta
param_beta_it.mat % influence of parameters \beta
param_pct_beta_us.mat %influence of parameters \beta
param_pct_brta_it.mat %influence of parameters \beta

codes

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predictmyKBPSD.m %experiment on ml–100k
predictmyKB.m %experiment on ml–100k by (\cite{Yang2020A})
predictmyKBPSDforcomparison %experiment for comparison with (\cite{Huang2018Rating})
predictmyKBPSD_netf.m %experiment on netflix
predictmyKB_netf.m %experiment on netflix by (\cite{Yang2020A})
predictmyKBPSDpcts_netf.m %dependence on the percentage
parameters_rrs.m %influence of weight parameters r on diverse data sets
parameters_pct_rrs.m %influence of weight parameters r on sparsity of data
parameters_beta.m %influence of parameters \beta on diverse data sets
parameters_pct_beta.m %influence of parameters \beta on sparsity of data

extremsimilarity.m %compute the extreme similarity
Feavec.m %find feature vector
GetTestSet1.m %create test sets on Netflix
GKas.m %build graph, kernel Gram matrix
KernelGram.m %create kernel Gram matrix

Simxy.m	%calculate measure of synergy
AdjustUI.m	%adjust the ratings matrix
KBreconstructer.m	%reconstructor with k-bandlimited
preprocess.m	%preprocess the rating matrix