Guideline

This *source code&dataset* are for paper 'The Linear Neighborhood Propagation Method for Predicting Long Non-coding RNA-protein Interactions'.

[Dataset]

1. The file extracted_interaction.txt is the association matrix which describe interactions between lncRNA and protein.
2. The file extracted_lncRNA.txt describes the name of the lncRNA in the association matrix.
3. The file extracted_protein.txt describes the name of the protein in the association matrix
4. The file extracted_lncRNA_expression.txt describes the expressions profiles of lncRNA in 24 human tissues or cell types .
5. The file extracted_lncRNA_sequence_CT.txt describes the composition and bi-composition of lncRNA sequences.
6. The file protein_ctd.mat describes the CTD vectors of protein sequences.

[Source code]

1. The file function individualLPLNP.m implements 5-fold cross validation of individual feature based LPLNP model on our dataset.
2. The file integratedLPLNP.m implements 5-fold cross validation of LPLNP models with integrated information on our dataset.
3. The file otherMethod.m implements 5-fold cross validation of other methods on our dataset.