Some Graph Data

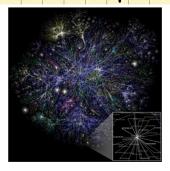


FIGURE: Graphical representation of webpage linkage



FIGURE: Graphical representation of among rappers relationships of scientific journals



FIGURE: Network of collaborations

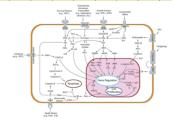


FIGURE: Network of US airlines

Biological Graph Data



FIGURE: Gene Regulatory Network (GRN). The mRNA concentration follows a dynamic process (e.g. ODE) controlled by other related genes.



 $\begin{array}{c} \mathbf{Figure:} \ \, \mathsf{Cell} \, \, \mathsf{Signal} \, \, \mathsf{Transcriptional} \\ \mathsf{Network} \end{array}$

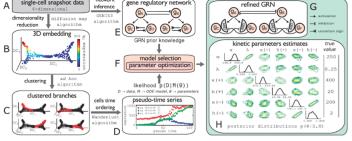


FIGURE: Framework of GRN produced from single-cell data.

Linking Websites

- Scoring websites by counting number of links
- Rescoring (reweighting) by considering the importance of the websites



What sites link to pku.edu.cn?		What sites link to tsinghua.edu.cn?	
Total Sites Linking In	6,649	Total Sites Linking In	8,579
She	Page	Ste	Page
1. baidu.com	bdl.baidu.com/publication.html €	1. yahoo.com	travelinspirations, yahoo, com/post/;d/ 🚱
2. msr.com	msn.com/de-at/nachrichten/wissenundtec @	2. baidu.com	feba.baidu.com/f?ie+utf-8&kw+清华大学 g
3. qq.com	edu.qq.com/bschool @	3. msn.com	msn.com/en-us/travel/tripideas/the-bes @
4. hupu.com	bbs.hupu.com/14788328.html ®	4. yandex.ru	ftp.yandex.ruldebian/README.mirrors.ht @
5 163 com	No 163 com 9	5. og.com	cityag.com @

Scoring the Pages

Ranking the webpage j by computing r_j :

$$r_j = \sum_{i
ightarrow j} rac{r_i}{d_i}, ext{(stream equation)}$$

where d_i is the out-degree of freedom of node i

