From Result Data to Article Figures:

An Introduction to OriginLab

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Dec 31, 2015

Data → Figure

	X1(X)	A(Y)	B(Y)	C(Y)
Long Name	Ranking N	Ki	Ko	K
Units				
Comments				
1	1	1	0	0
2	2	1	0	0
3	3	0	1	1
4	4	0	0	0
5	5	1	0	1
6	6	0	0	0
7	7	0	1	0
8	8	0	0	0
9	9	0	0	0
10	10	0	0	0
11	11	1	0	0
12	12	1	0	0
13	13	1	0	1
14	14	0	0	0
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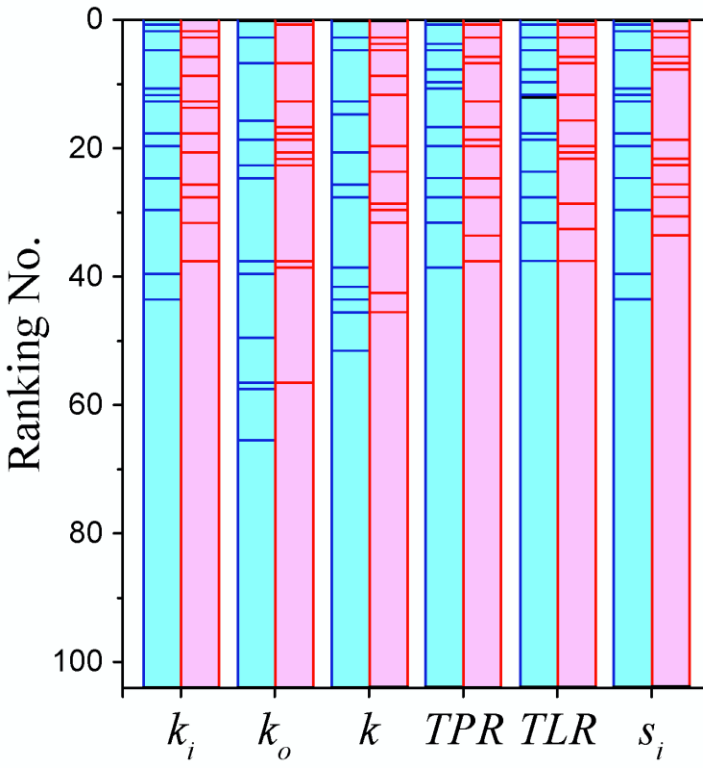
19	19	0	1	0



MATLAB
The Language of Technical Computing

python

Ai

P

OriginLab

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20+ years serving the scientific and engineering community

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Graphing & Analysis

ORIGIN® 2015
Graphing & Analysis

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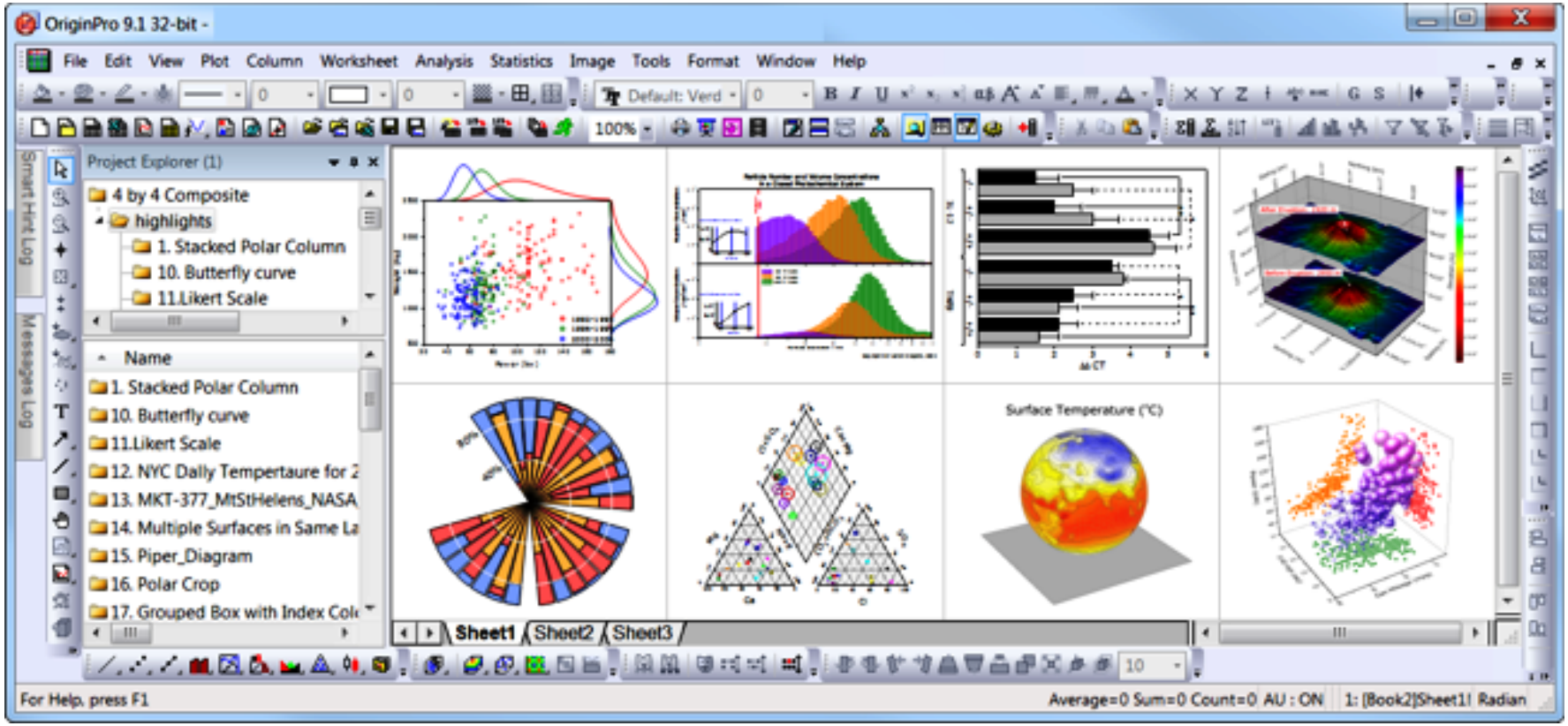
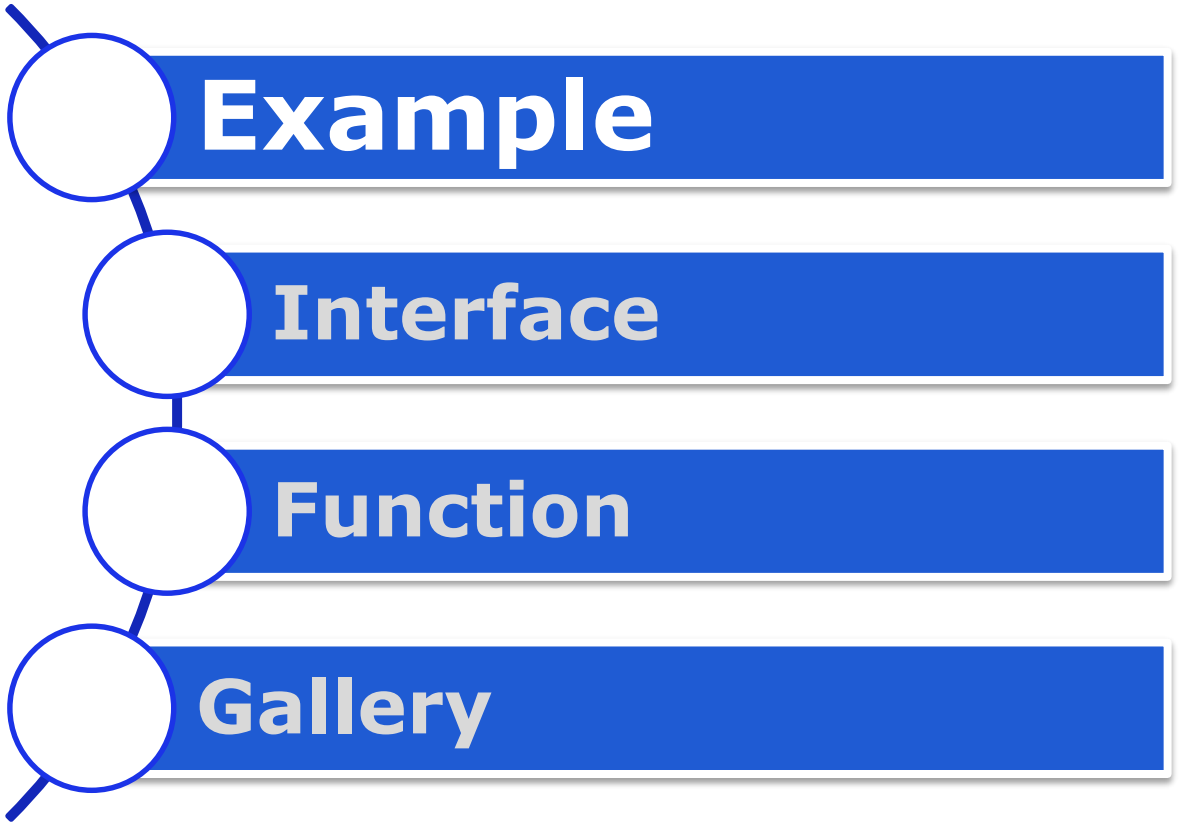
http://www.originlab.com/

Data → Figure

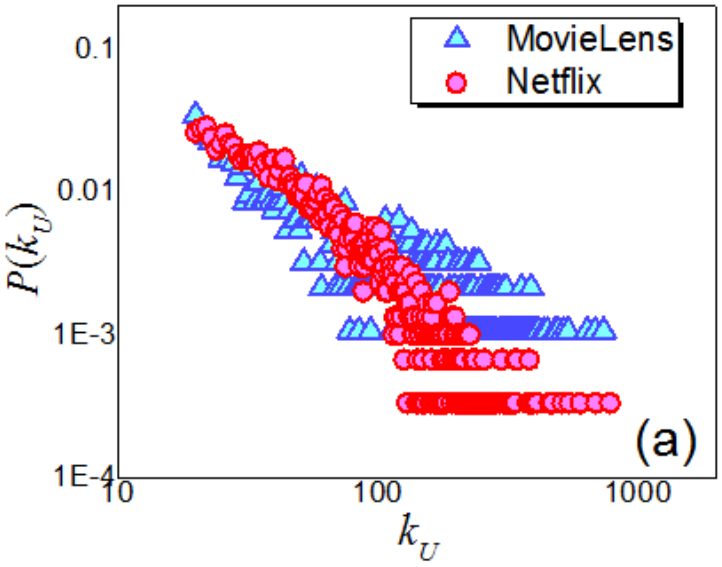


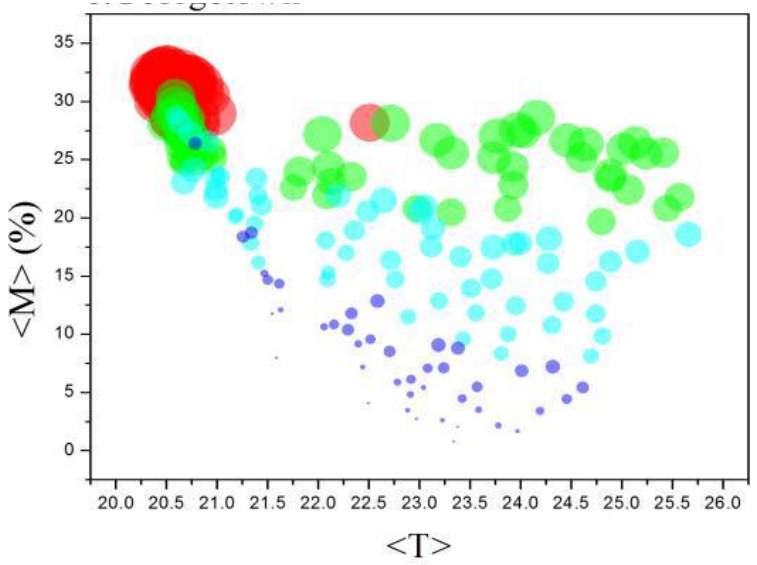
http://www.originlab.com/www/products/graphgallery.aspx

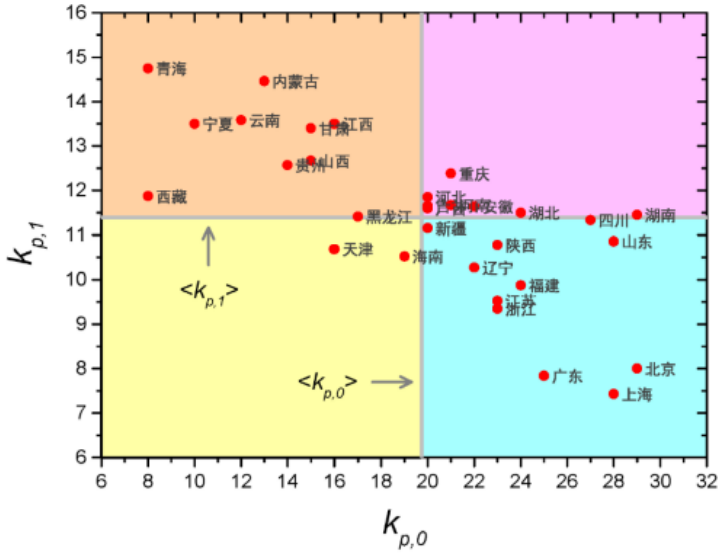
Outline

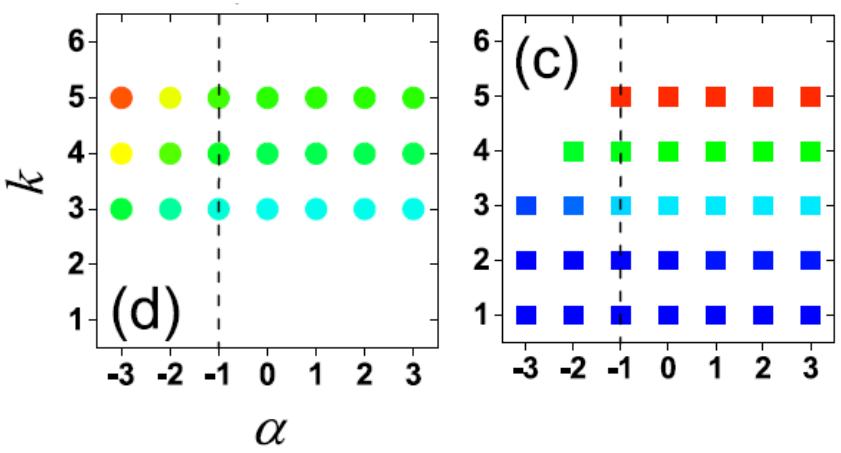


Dot

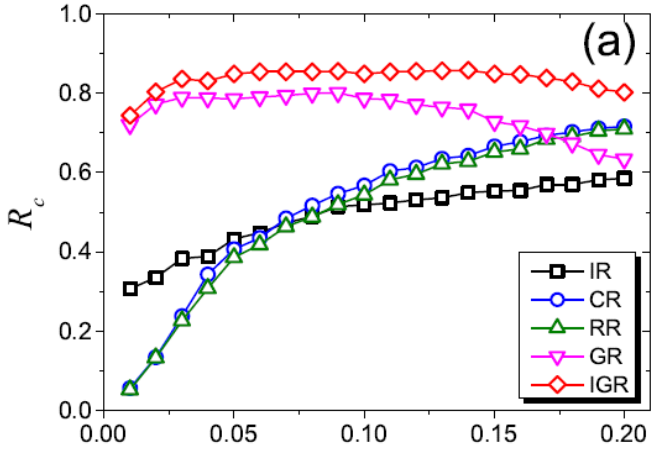

MovieLens
Netflix
0.1
0.01
1E-3
1E-4
10
100
1000
$P(k_U)$
k_U
(a)

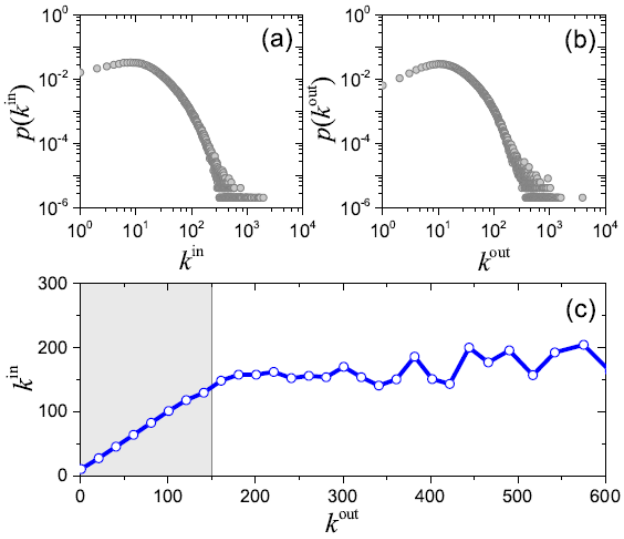

<M> (%)
<T>

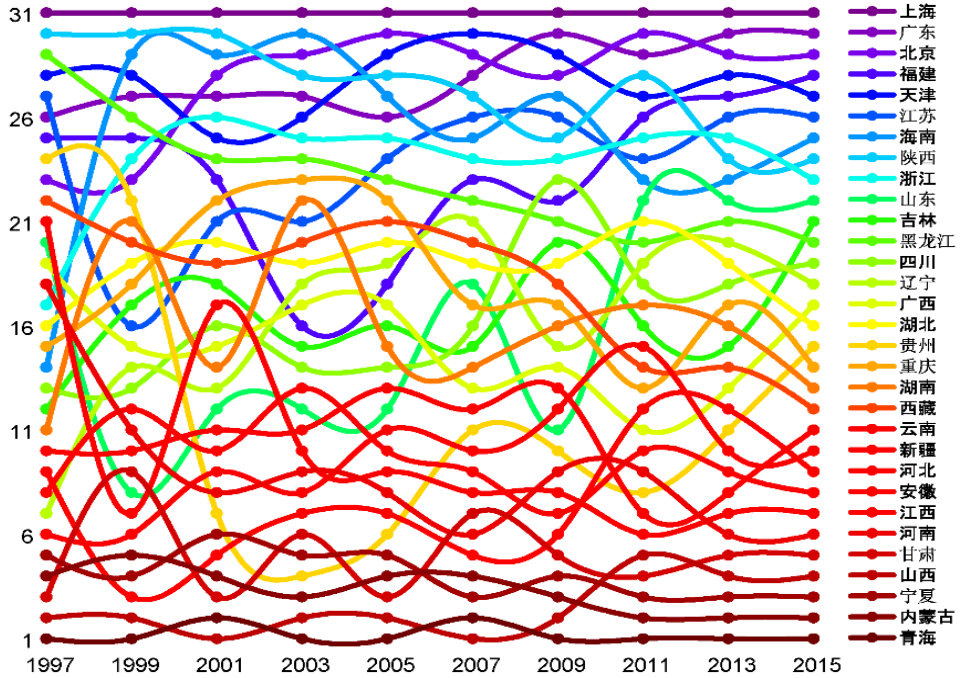

$k_{p,1}$
$k_{p,0}$
<$k_{p,1}$>
<$k_{p,0}$>
青海
内蒙古
宁夏
云南
江西
山西
西藏
重庆
湖北
四川
湖南
黑龙江
新疆
天津
海南
陕西
山东
辽宁
福建
浙江
广东
北京
上海

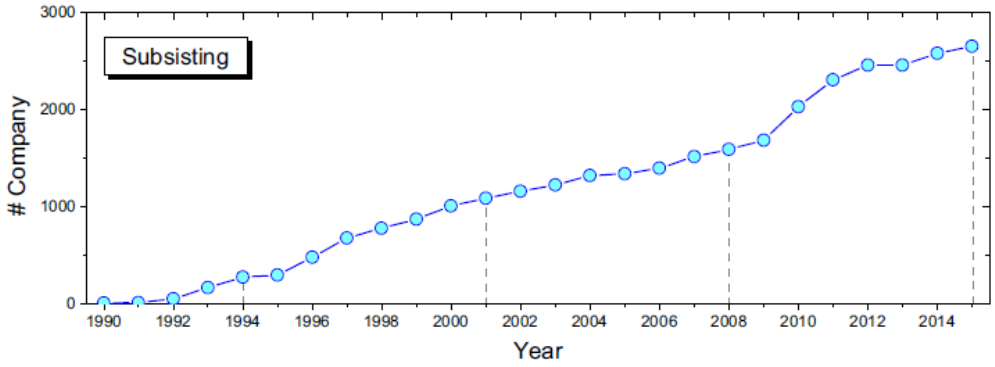

k
α
(d)
(c)

Line

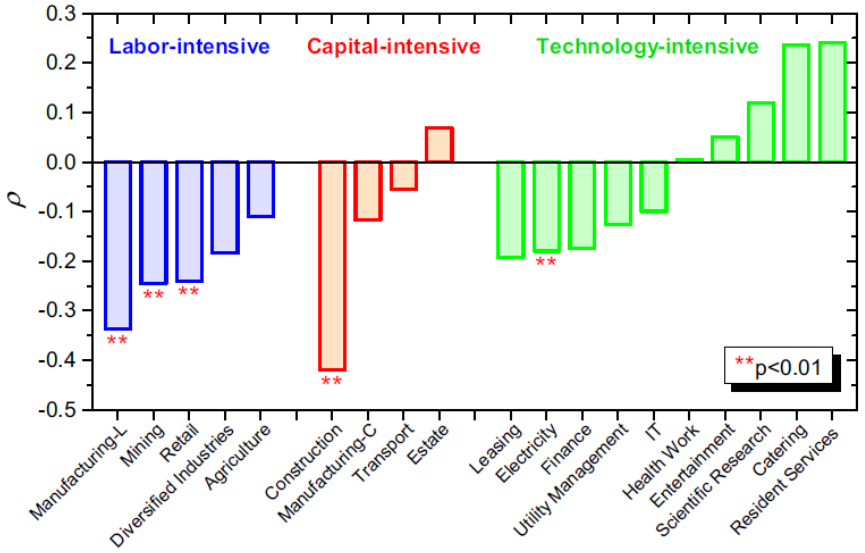

(a)
R_c
IR
CR
RR
GR
IGR

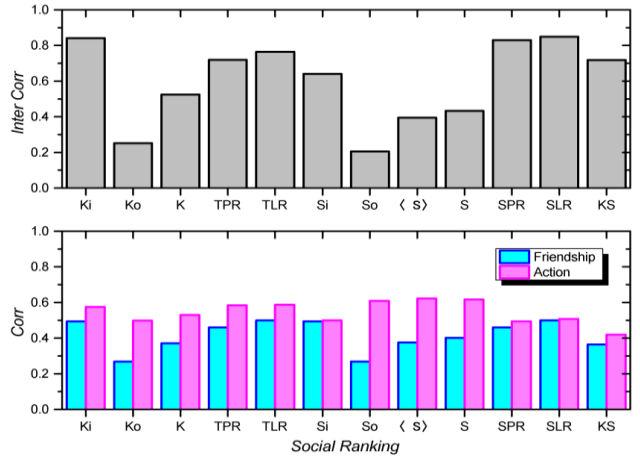

(a)
(b)
(c)
$p(k^{in})$
$p(k^{out})$
k^{in}
k^{out}

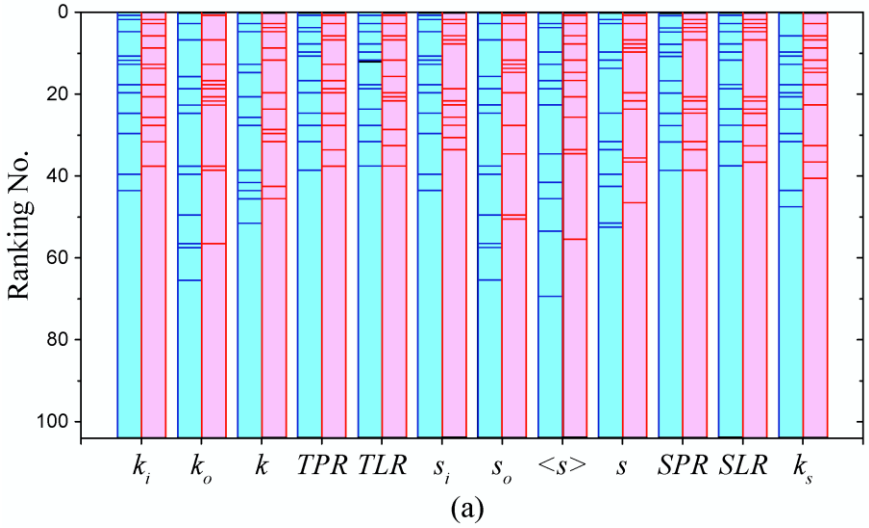

上海
广东
北京
福建
天津
江苏
海南
陕西
浙江
山东
吉林
黑龙江
四川
辽宁
广西
湖北
贵州
重庆
湖南
西藏
云南
新疆
河北
安徽
江西
河南
甘肃
山西
宁夏
内蒙古
青海


Subsisting
Company
Year

Bar


Labor-intensive
Capital-intensive
Technology-intensive
ρ
**p<0.01
Manufacturing-L
Mining
Retail
Diversified Industries
Agriculture
Construction
Manufacturing-C
Transport
Estate
Leasing
Electricity
Finance
Utility Management
IT
Health Work
Entertainment
Scientific Research
Catering
Resident Services


Inter Corr
Corr
Friendship
Action
Ki
Ko
K
TPR
TLR
Si
So
⟨ s⟩
S
SPR
SLR
KS
Social Ranking


Ranking No.
k_i k_o k TPR TLR s_i s_o <s> s SPR SLR k_s
(a)

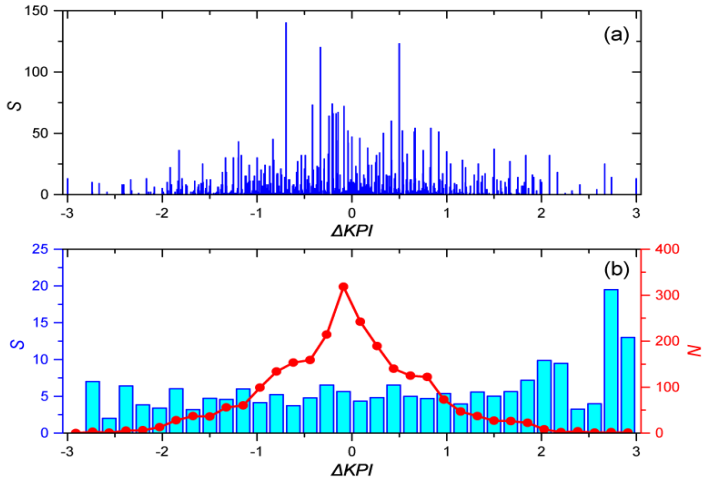
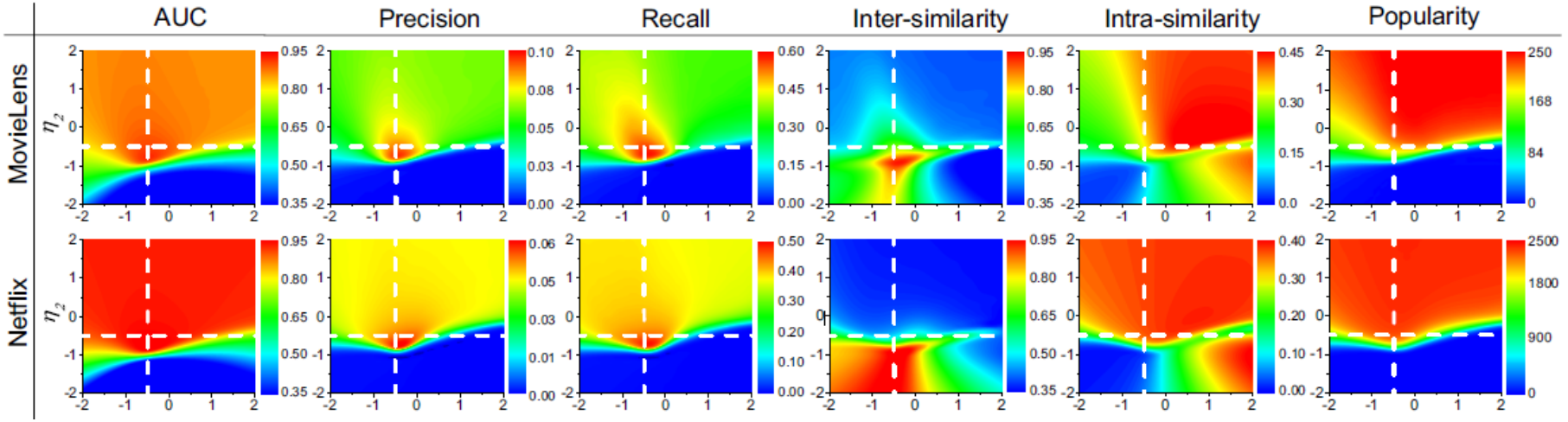
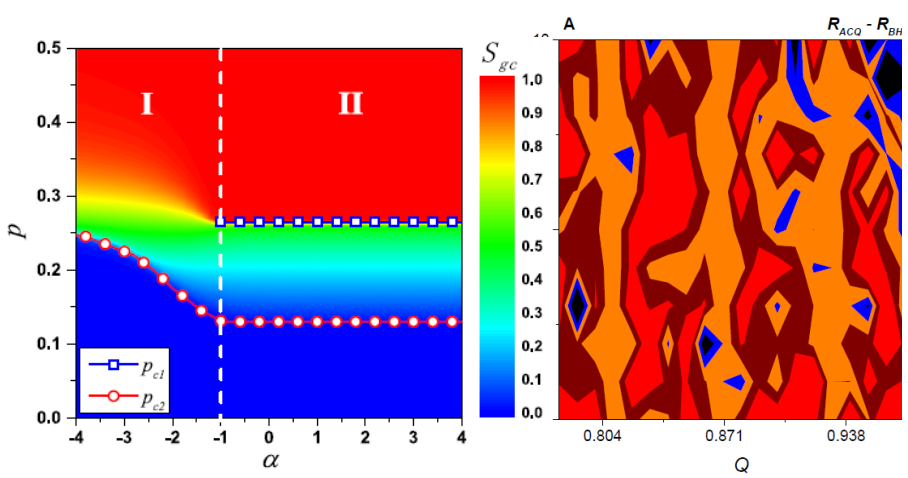
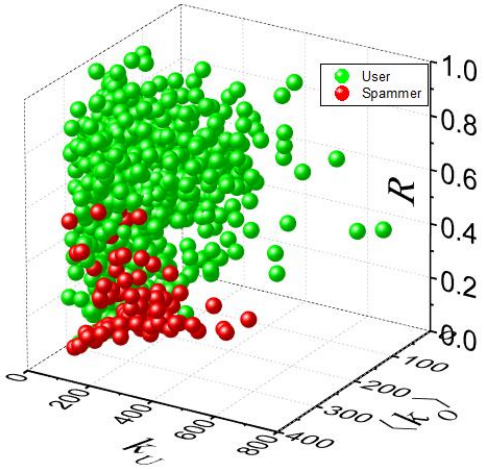

(a)
(b)
S
N
ΔKPI

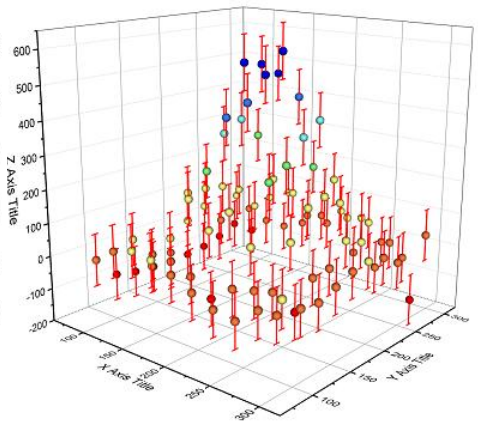
Diagram & 3D


AUC
Precision
Recall
Inter-similarity
Intra-similarity
Popularity
MovieLens
Netflix
η_2

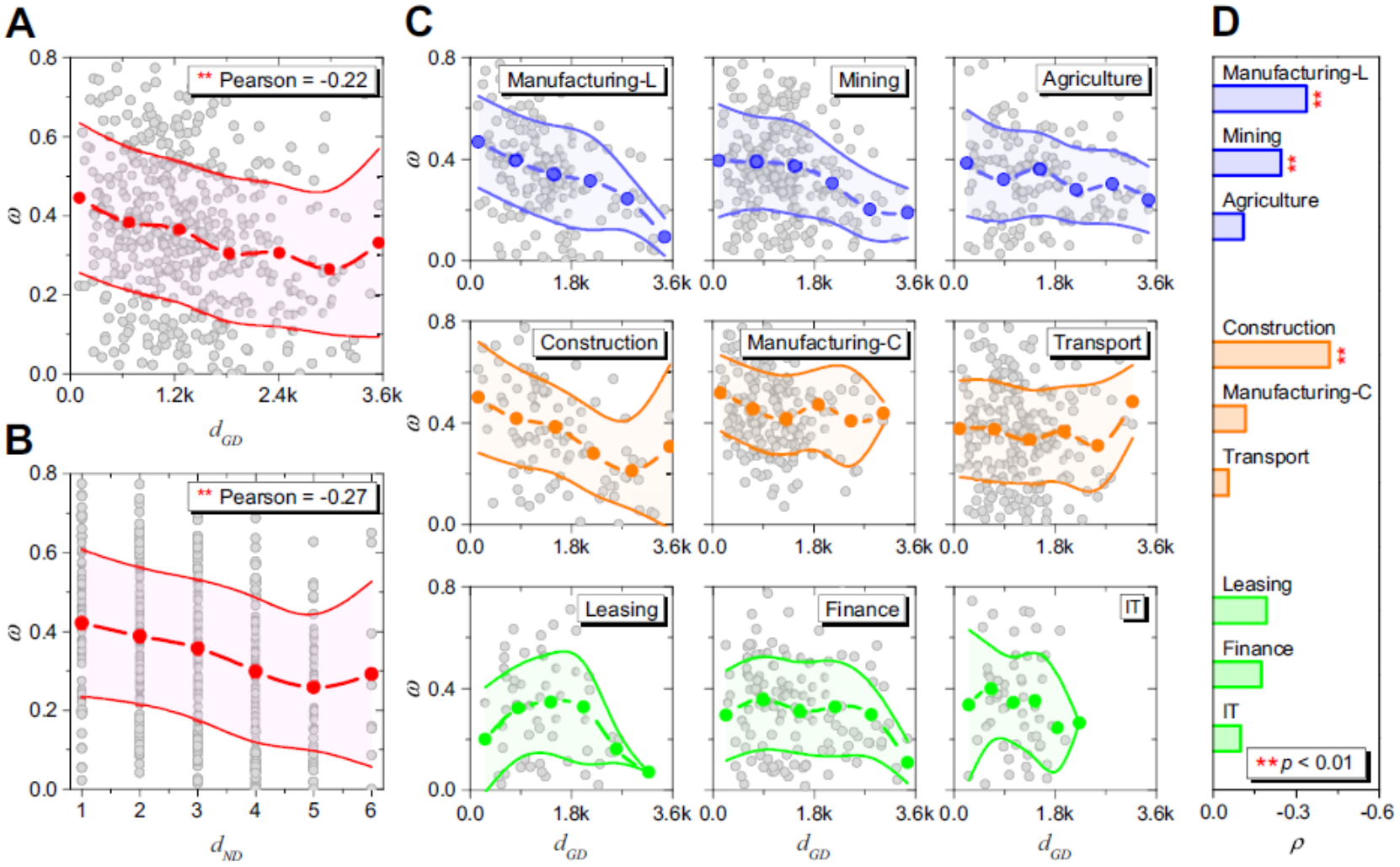

I
II
p_{c1}
p_{c2}
p
α

A
S_{gc}
R_{ACQ} - R_{BH}
0.804
0.871
0.938
Q

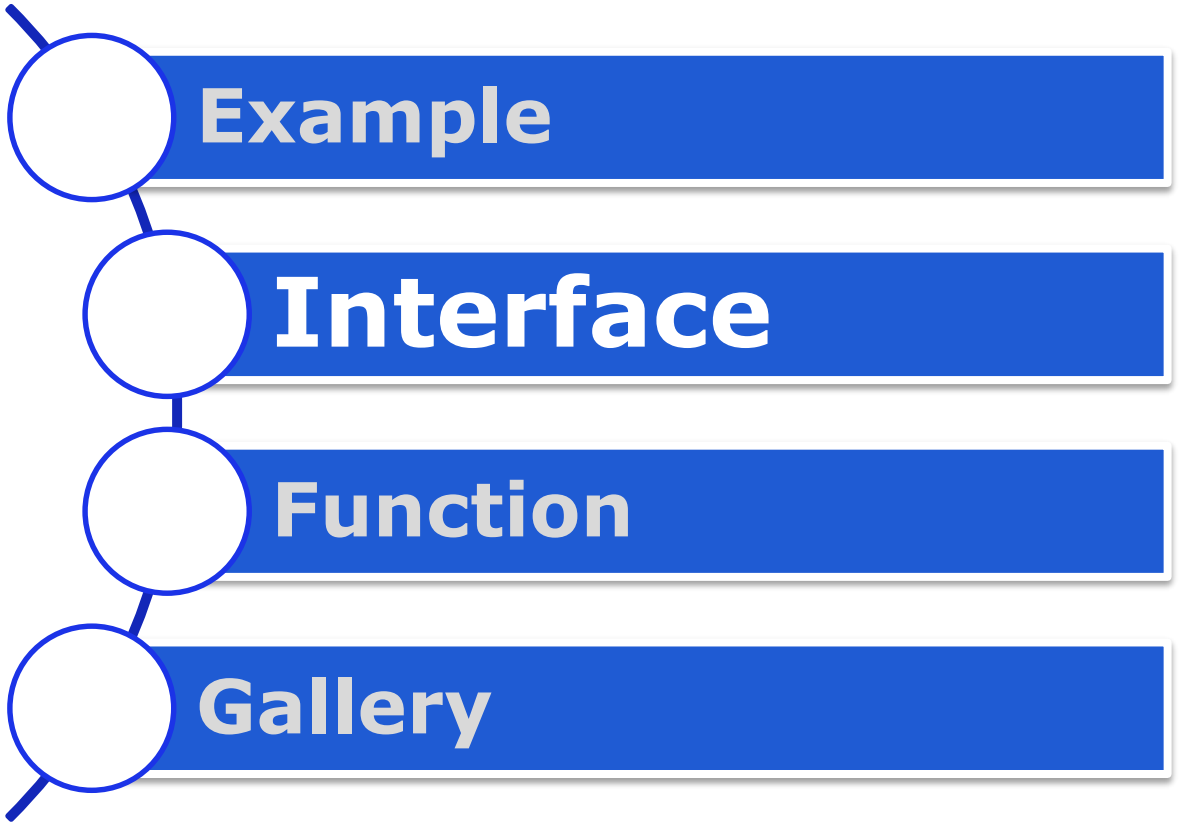

User
Spammer
R
k_U
k_O



Combination Chart



Outline



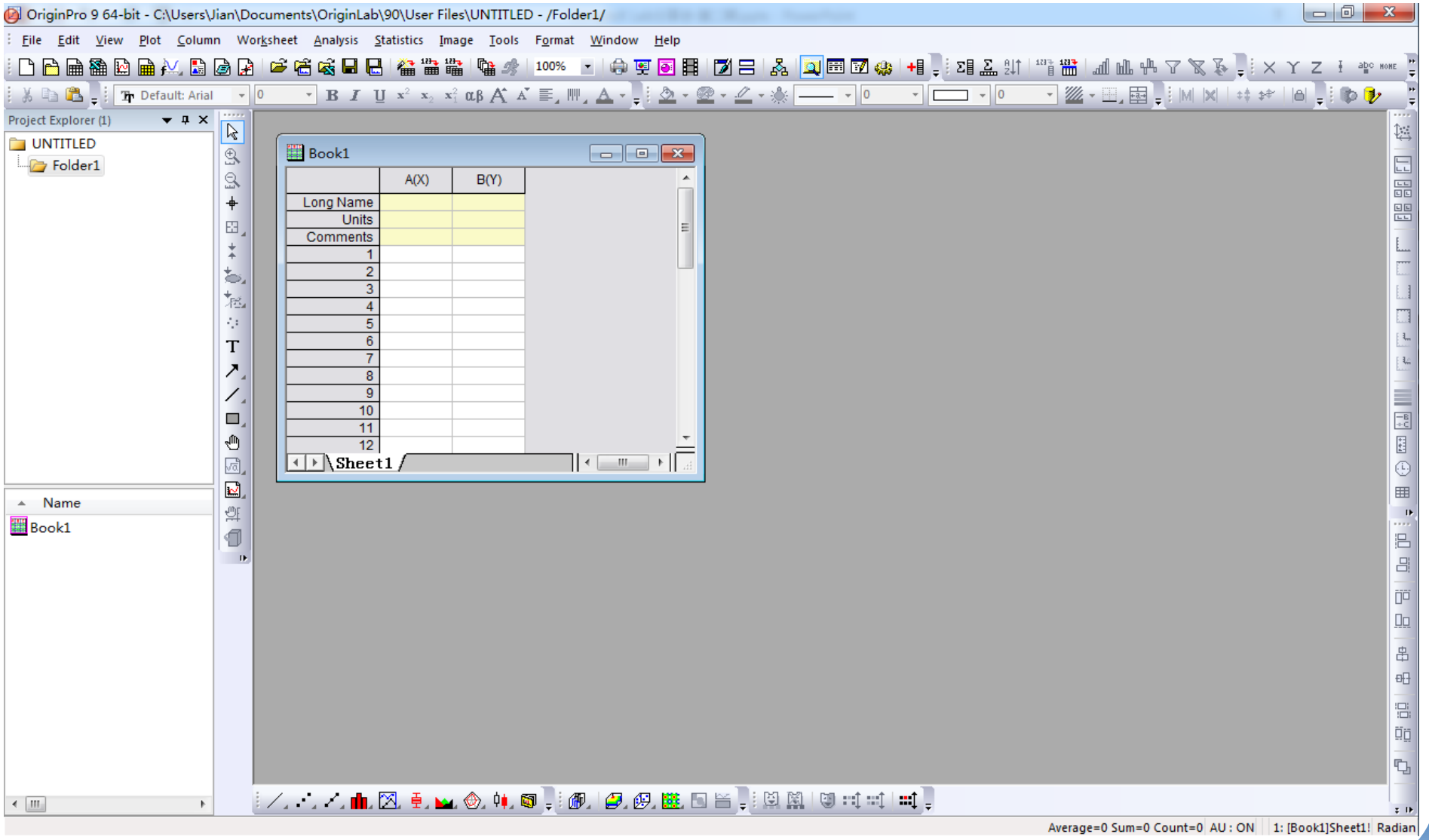
Install

~ 700 MB

License

32/64 bit

Interface


OriginPro 9 64-bit - C:\Users\Jian\Documents\OriginLab\90\User Files\UNTITLED - /Folder1/
File Edit View Plot Column Worksheet Analysis Statistics Image Tools Format Window Help
Project Explorer (1)
UNTITLED
Folder1
Name
Book1
Book1
A(X)
B(Y)
Long Name
Units
Comments
1
2
3
4
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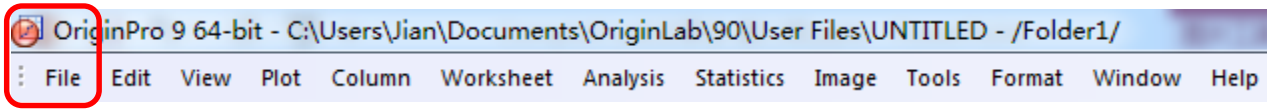
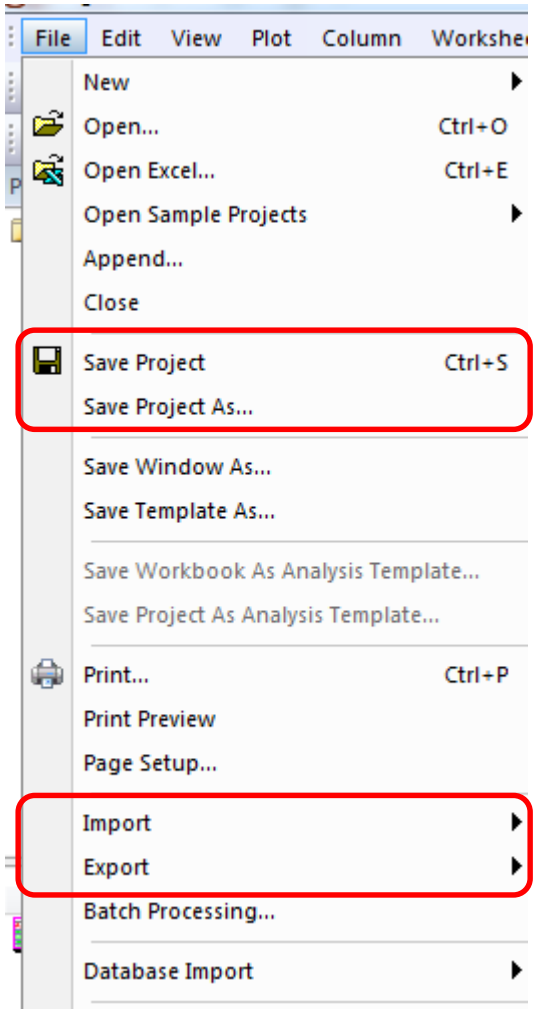
11
12
Sheet1
Average=0 Sum=0 Count=0 AU : ON 1: [Book1]Sheet1! Radian

Interface


OriginPro 9 64-bit - C:\Users\Jian\Documents\OriginLab\90\User Files\UNTITLED - /Folder1/
File Edit View Plot Column Worksheet Analysis Statistics Image Tools Format Window Help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New
Open... Ctrl+O
Open Excel... Ctrl+E
Open Sample Projects
Append...
Close
Save Project Ctrl+S
Save Project As...
Save Window As...
Save Template As...
Save Workbook As Analysis Template...
Save Project As Analysis Template...
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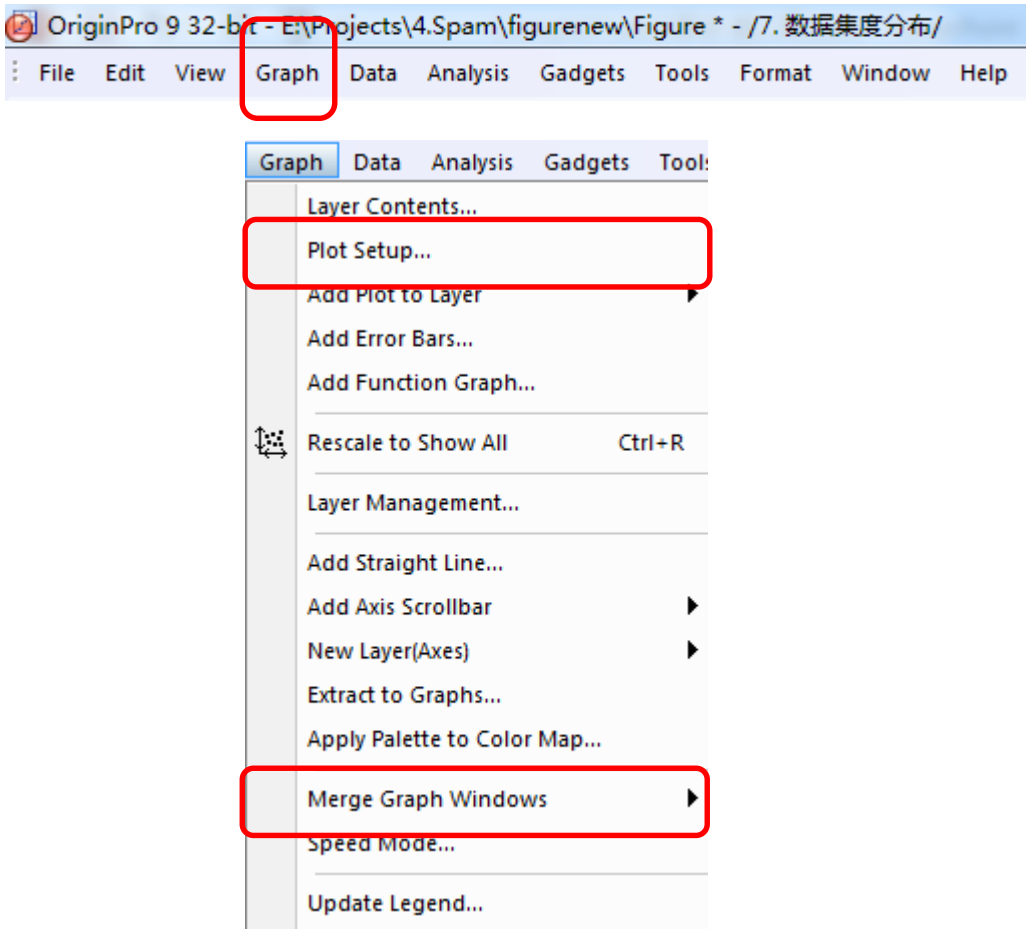
Print Preview
Page Setup...
Import
Export
Batch Processing...
Database Import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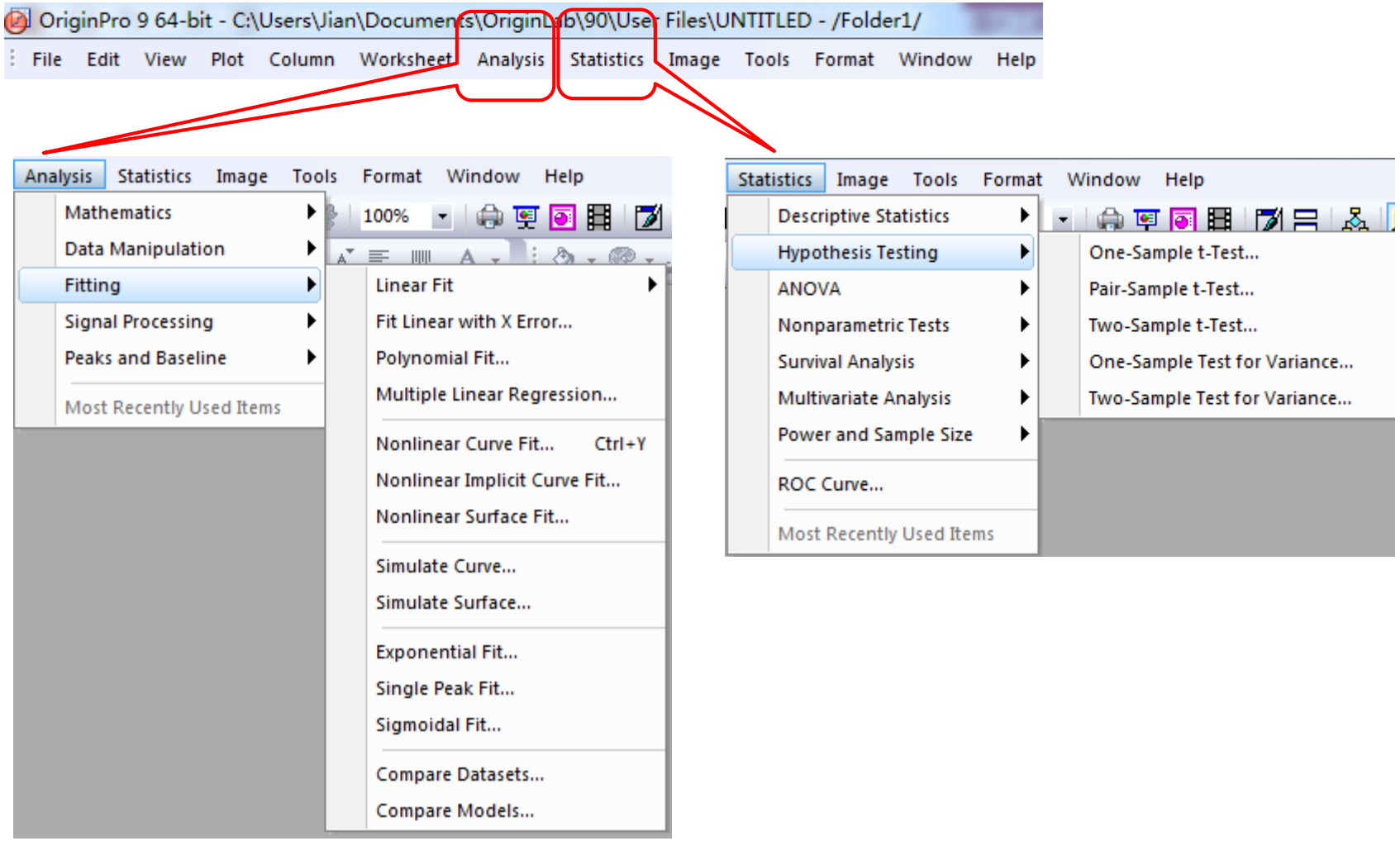
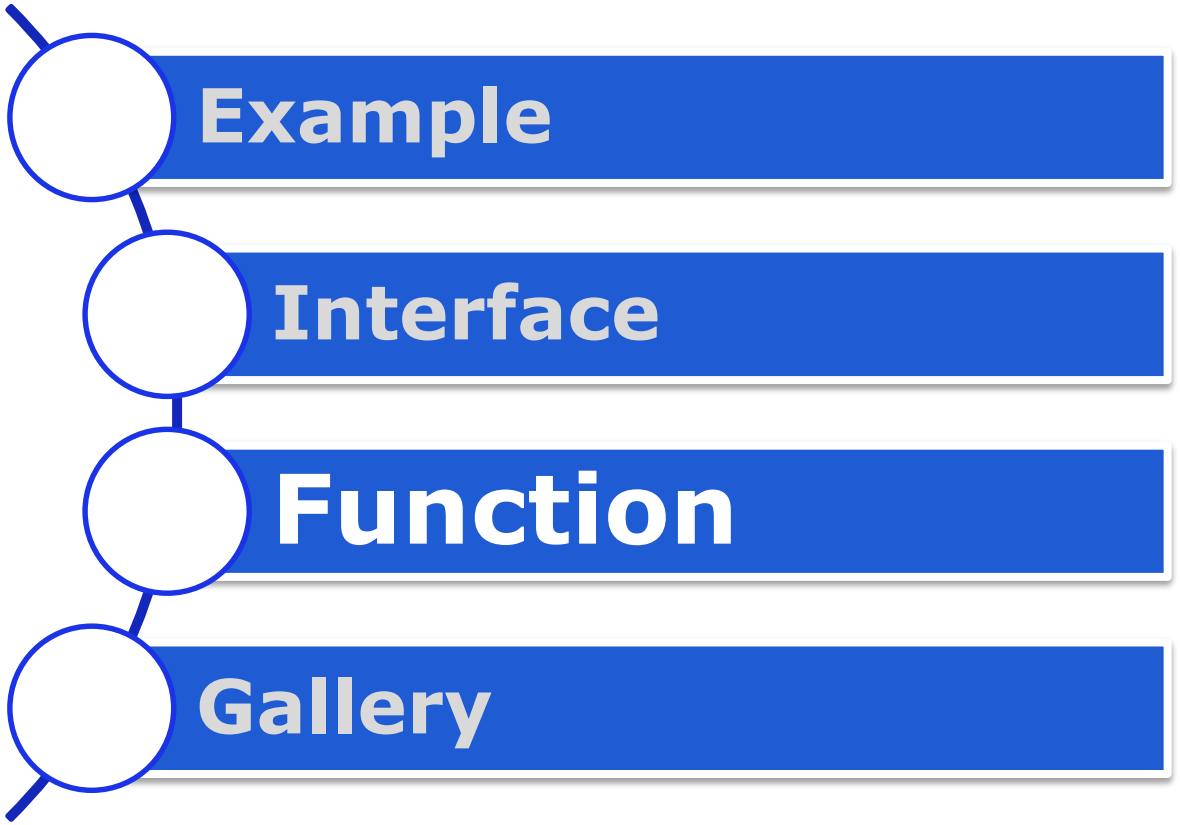
File Edit View Graph Data Analysis Gadgets Tools Format Window Help
Graph Data Analysis Gadgets
Layer Contents...
Plot Setup...
Add Plot to Layer
Add Error Bars...
Add Function Graph...
Rescale to Show All Ctrl+R
Layer Management...
Add Straight Line...
Add Axis Scrollbar
New Layer(Axes)
Extract to Graphs...
Apply Palette to Color Map...
Merge Graph Windows
Speed Mode...
Update Legend...

Interface


OriginPro 9 64-bit - C:\Users\Jian\Documents\OriginLab\90\User Files\UNTITLED - /Folder1/
File Edit View Plot Column Worksheet Analysis Statistics Image Tools Format Window Help
Analysis Statistics Image Tools Format Window Help
Mathematics
Data Manipulation
Fitting
Signal Processing
Peaks and Baseline
Most Recently Used Items
100%
Linear Fit
Fit Linear with X Error...
Polynomial Fit...
Multiple Linear Regression...
Nonlinear Curve Fit... Ctrl+Y
Nonlinear Implicit Curve Fit...
Nonlinear Surface Fit...
Simulate Curve...
Simulate Surface...
Exponential Fit...
Single Peak Fit...
Sigmoidal Fit...
Compare Datasets...
Compare Models...
Statistics Image Tools Format Window Help
Descriptive Statistics
Hypothesis Testing
ANOVA
Nonparametric Tests
Survival Analysis
Multivariate Analysis
Power and Sample Size
ROC Curve...
Most Recently Used Items
One-Sample t-Test...
Pair-Sample t-Test...
Two-Sample t-Test...
One-Sample Test for Variance...
Two-Sample Test for Variance...

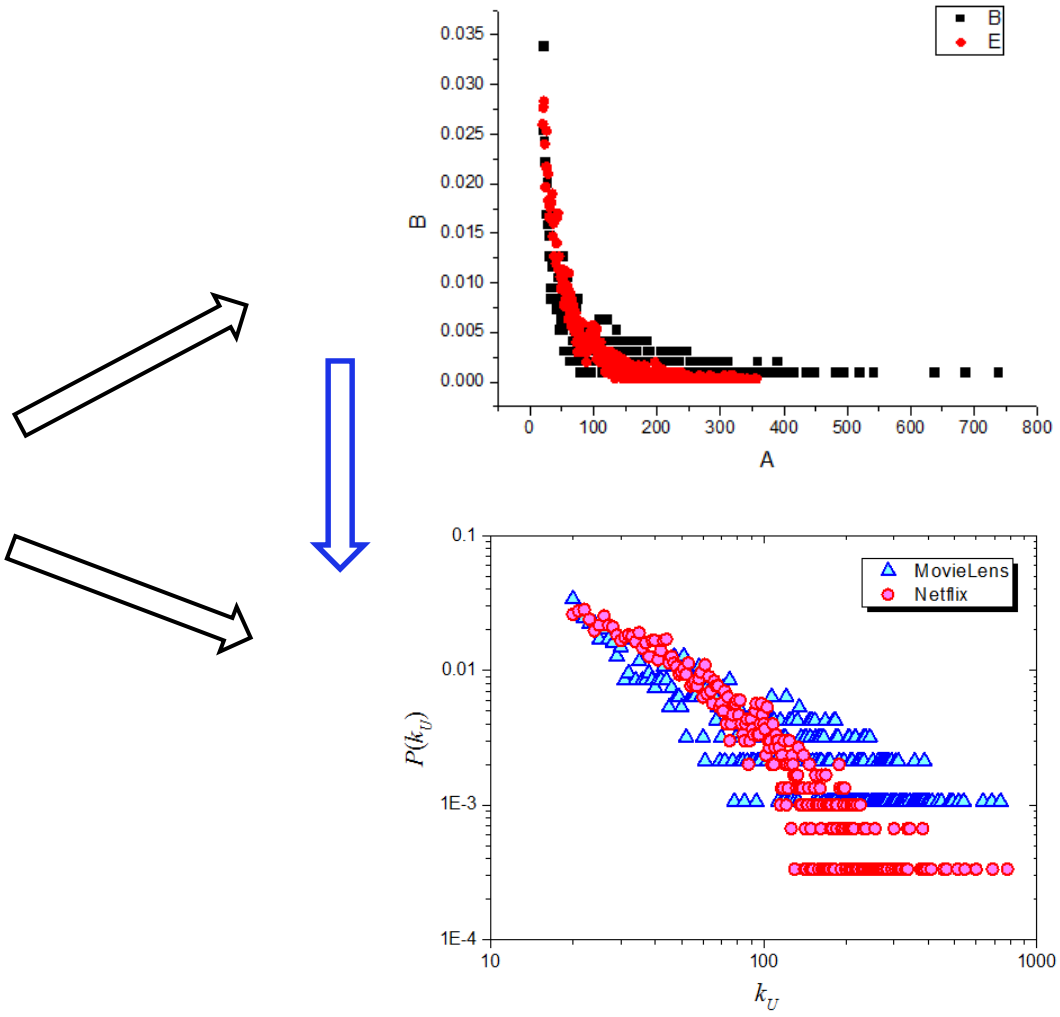
Outline



Function

Dot plot: Degree distribution

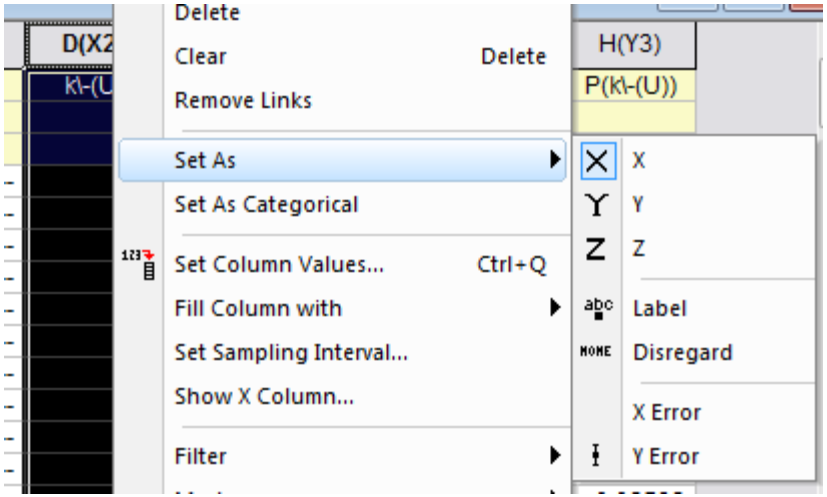
ne	kl-(U)	P(kl-(U))
its		
nts		MovieLens
1	20	0.03393
2	21	0.02545
3	22	0.02439
4	23	0.02227
5	24	0.02227
6	25	0.01697
7	26	0.02015
8	27	0.01697
9	28	0.01591
10	29	0.01273
11	30	0.01485
12	31	0.00848



Function

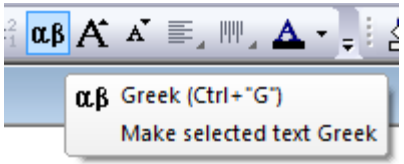
Set X and Y

	A(X1)	B(Y1)	C(Y1)	D(X2)	E(Y2)
Long Name	k\-(U)	P(k\-(U))		k\-(U)	P(k\-(U))
Units					
Comments		MovieLens			Netflix
1	20	0.03393	--	20	0.026
2	21	0.02545	--	21	0.02767
3	22	0.02439	--	22	0.02833



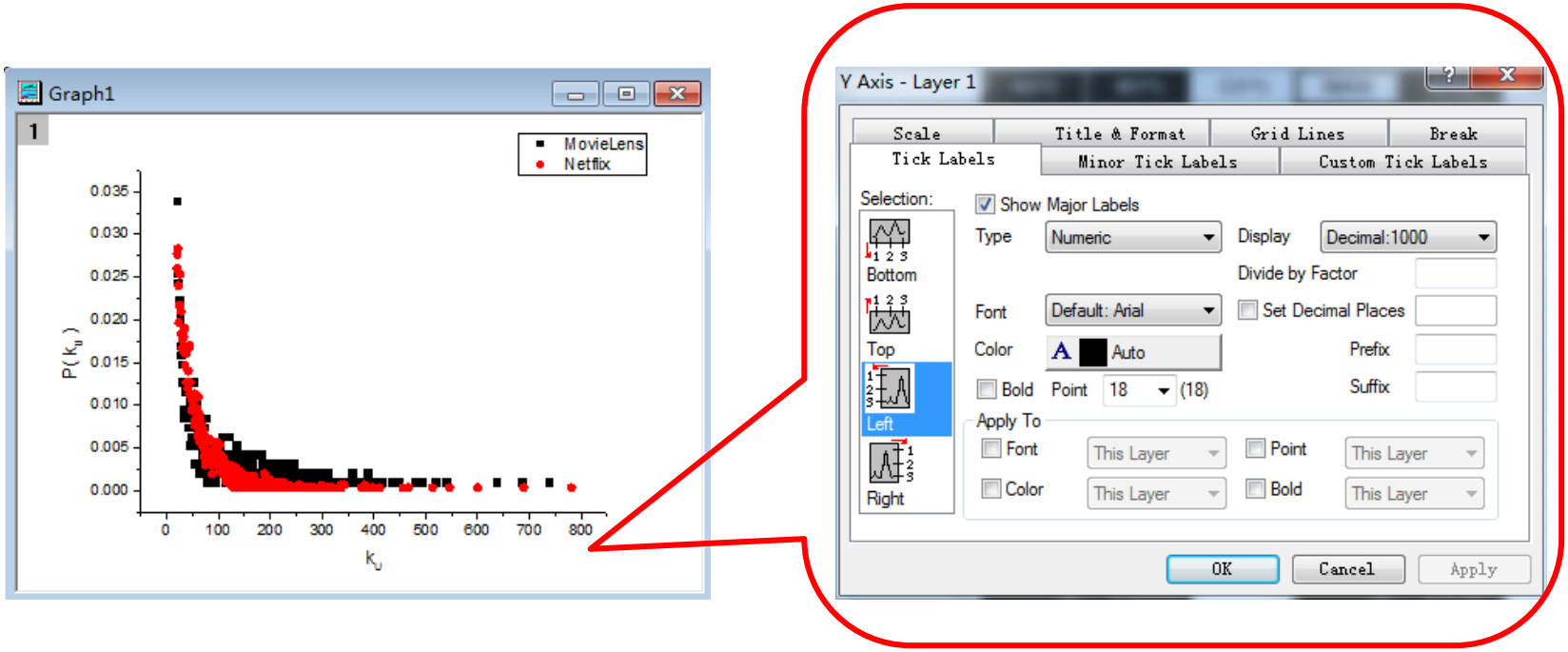
Superscript: \+()

Subscript: \-()



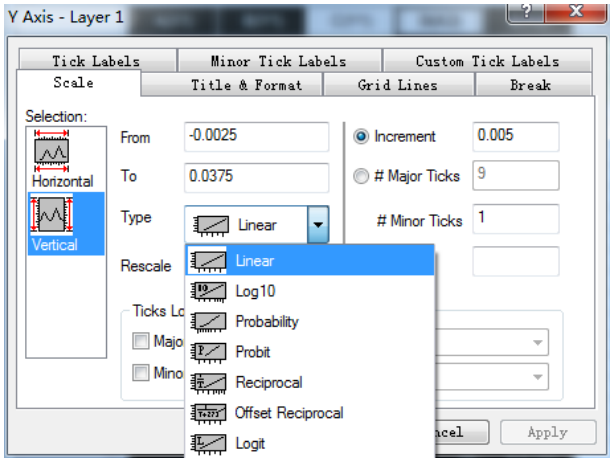
Function

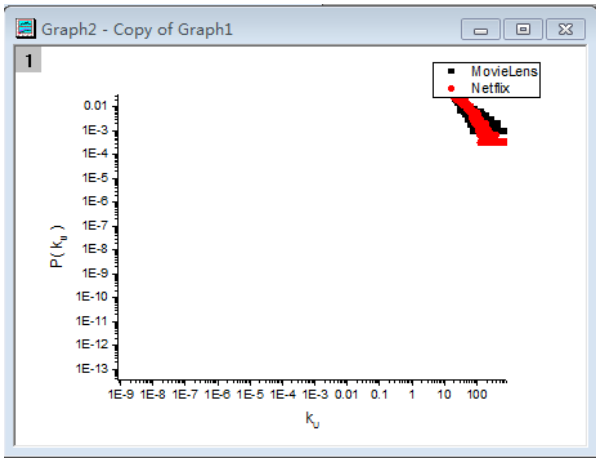
Adjust axis

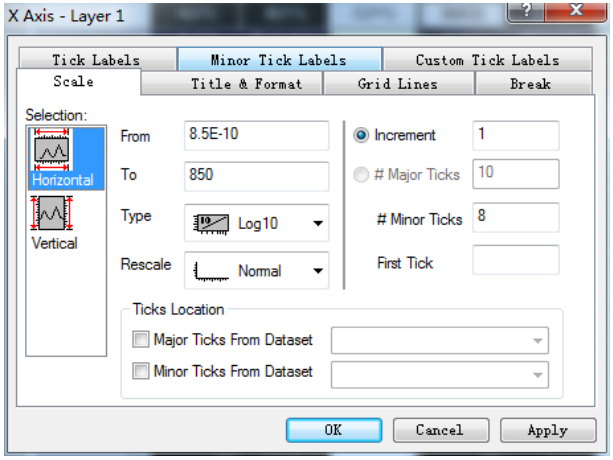


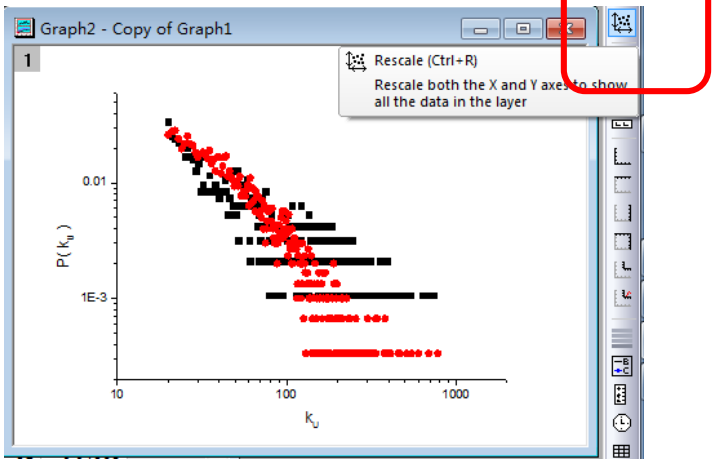
Function

Rescale



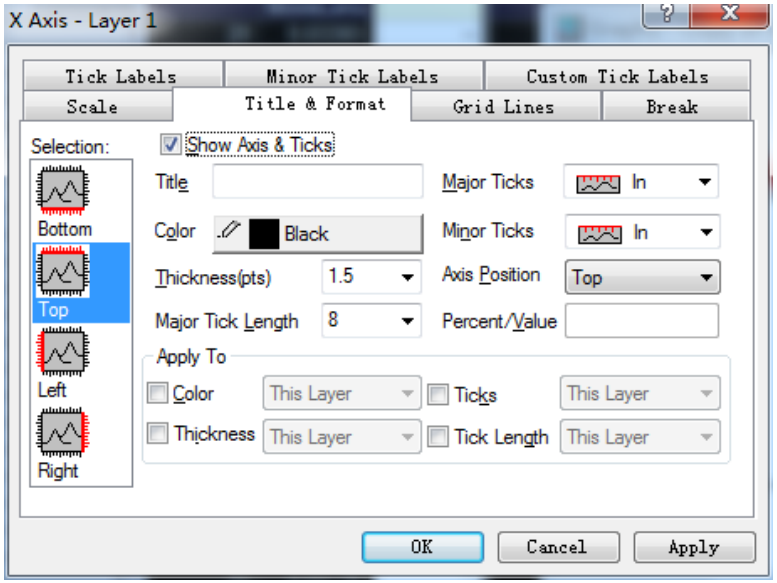


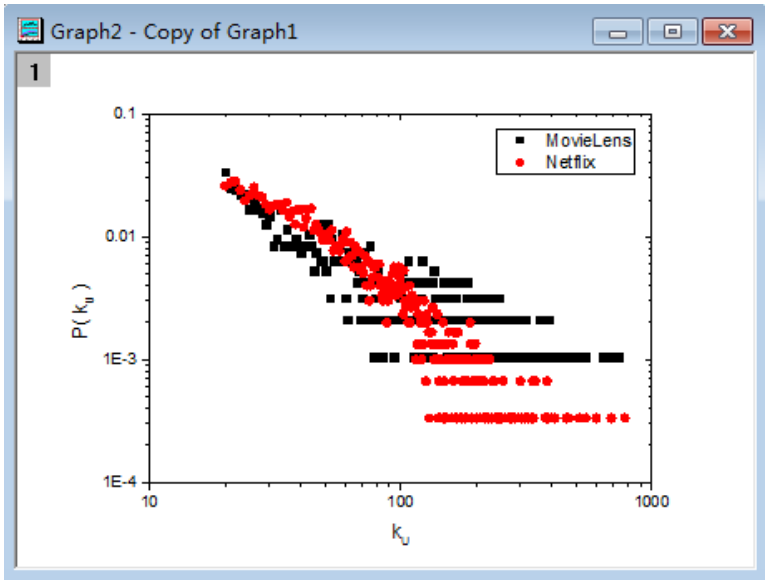




Function

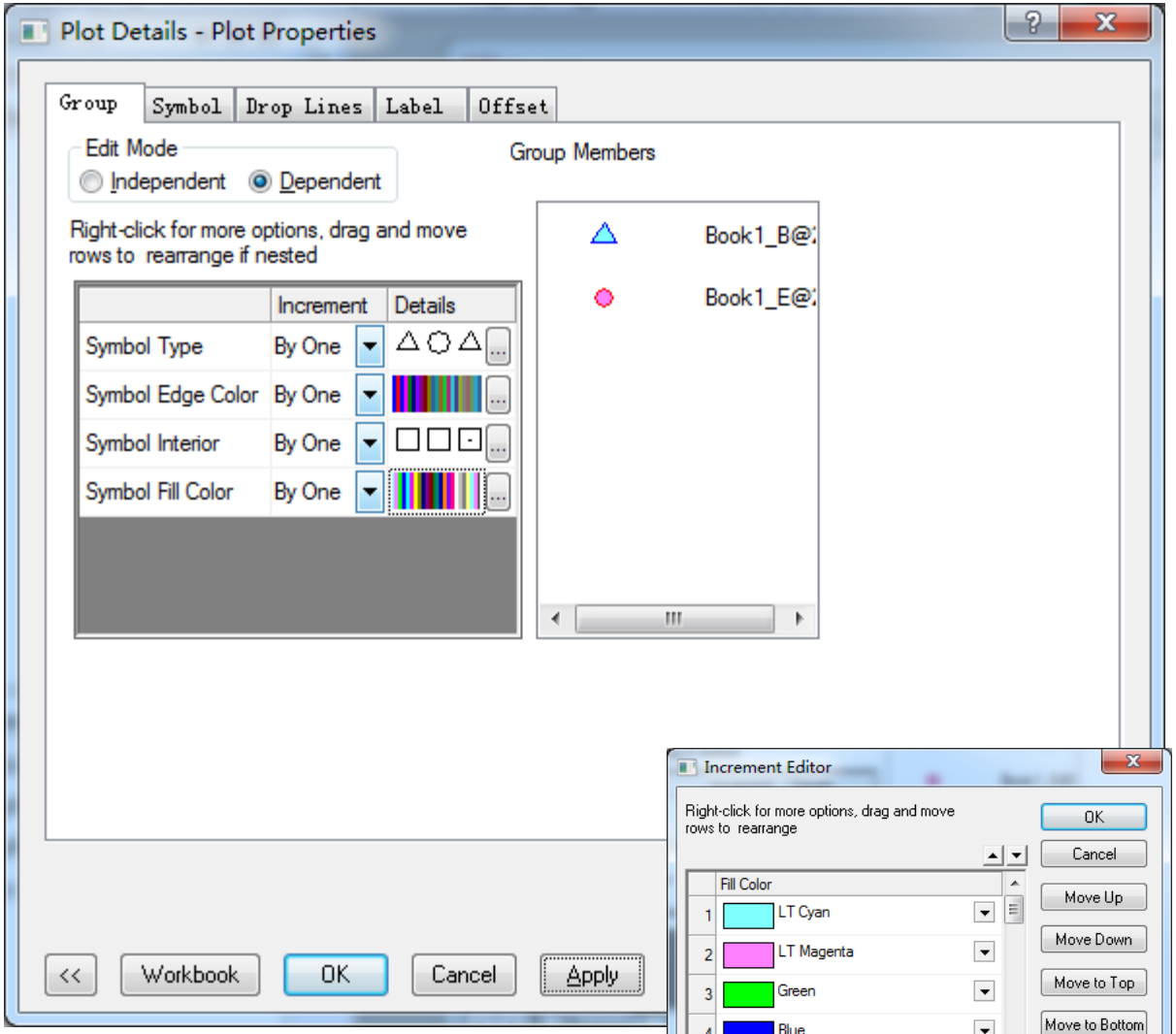
Show other axis

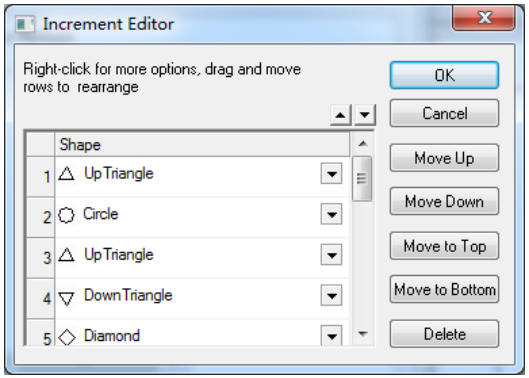


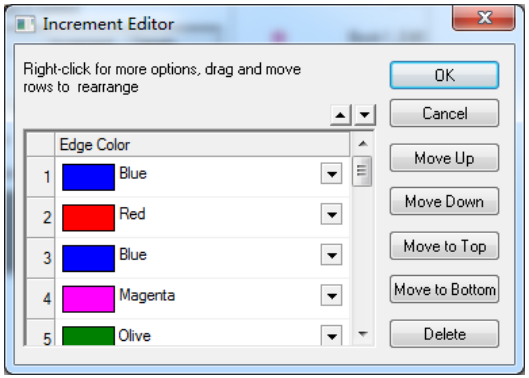


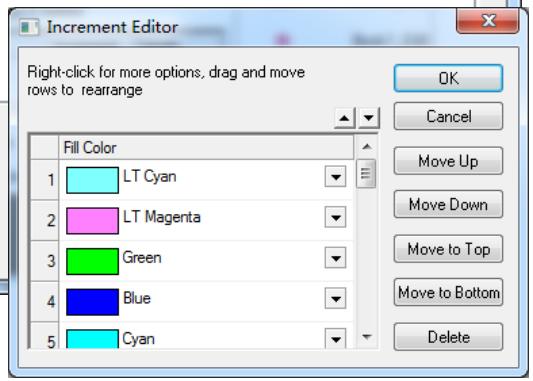
Function

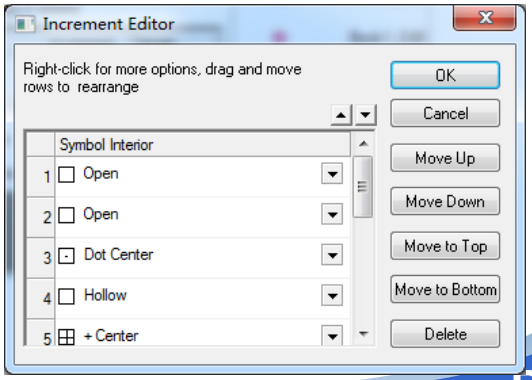
Set dot style





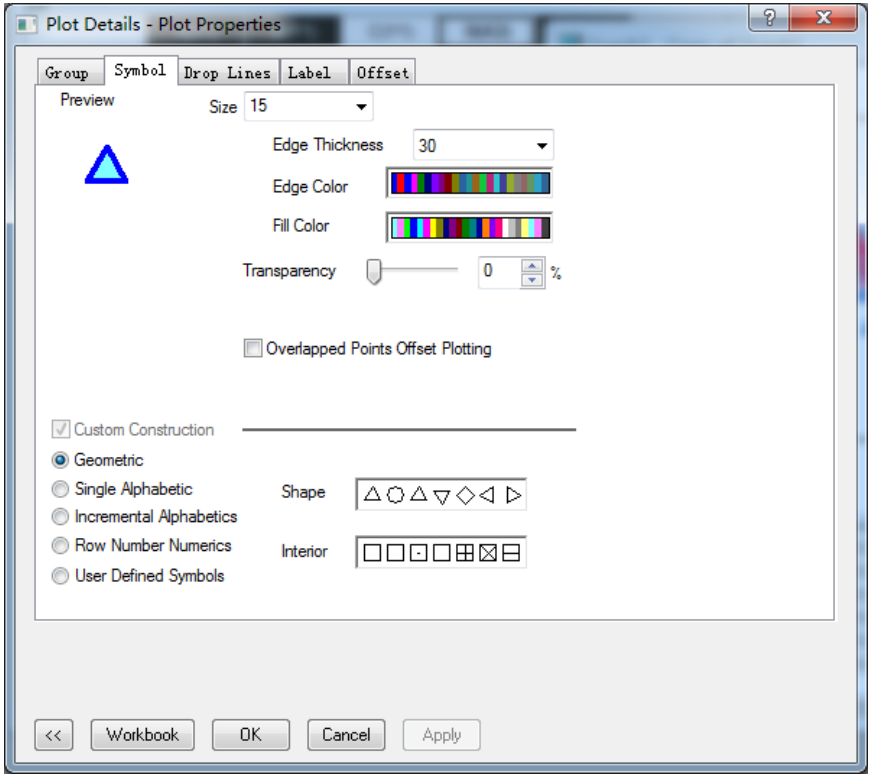


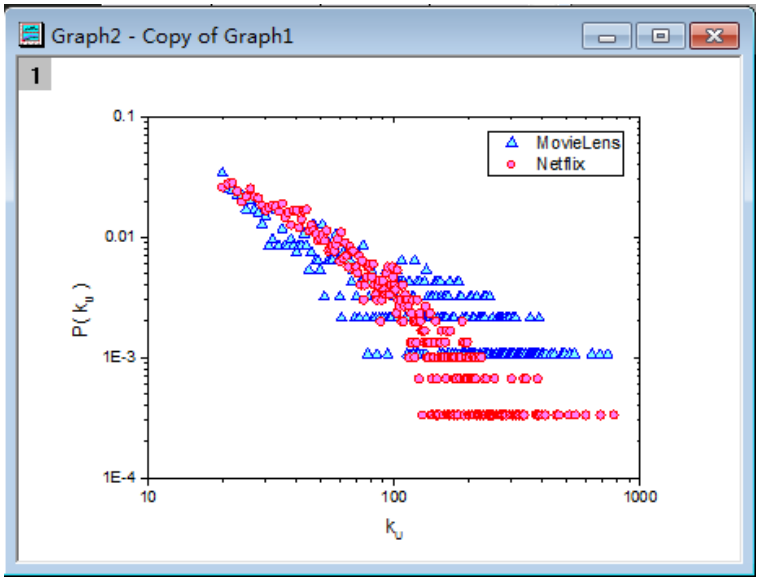


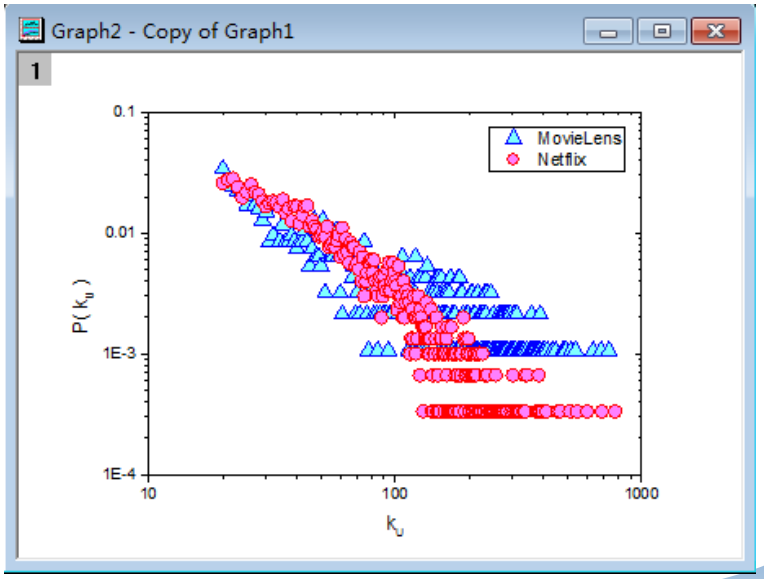


Function

Symbol size and edge

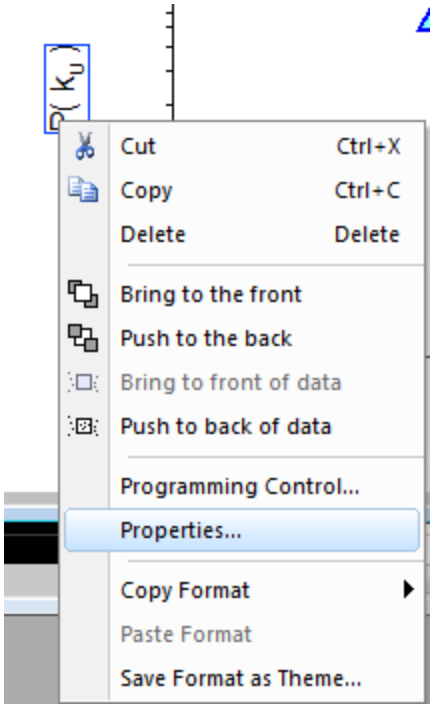


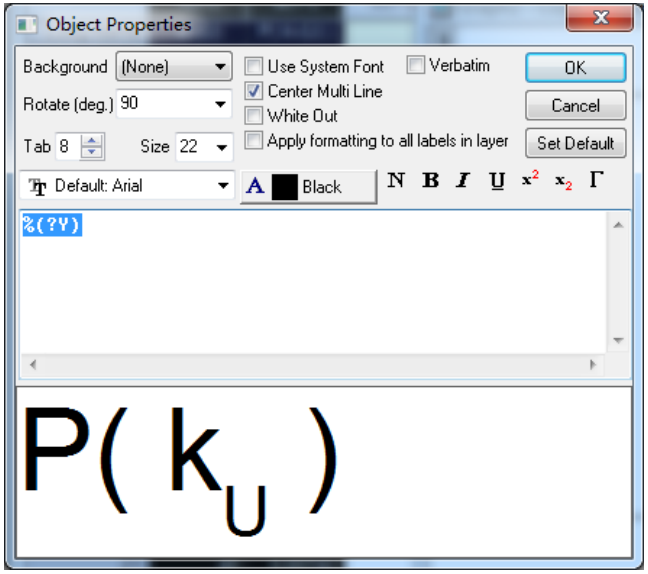


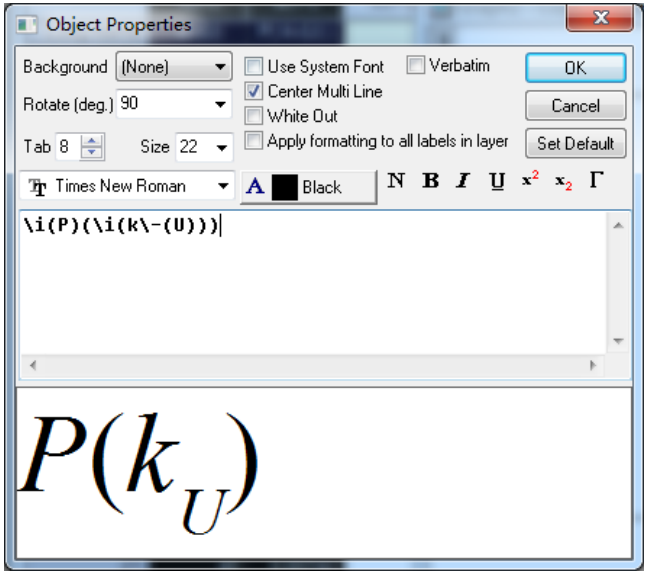


Function

Axis style

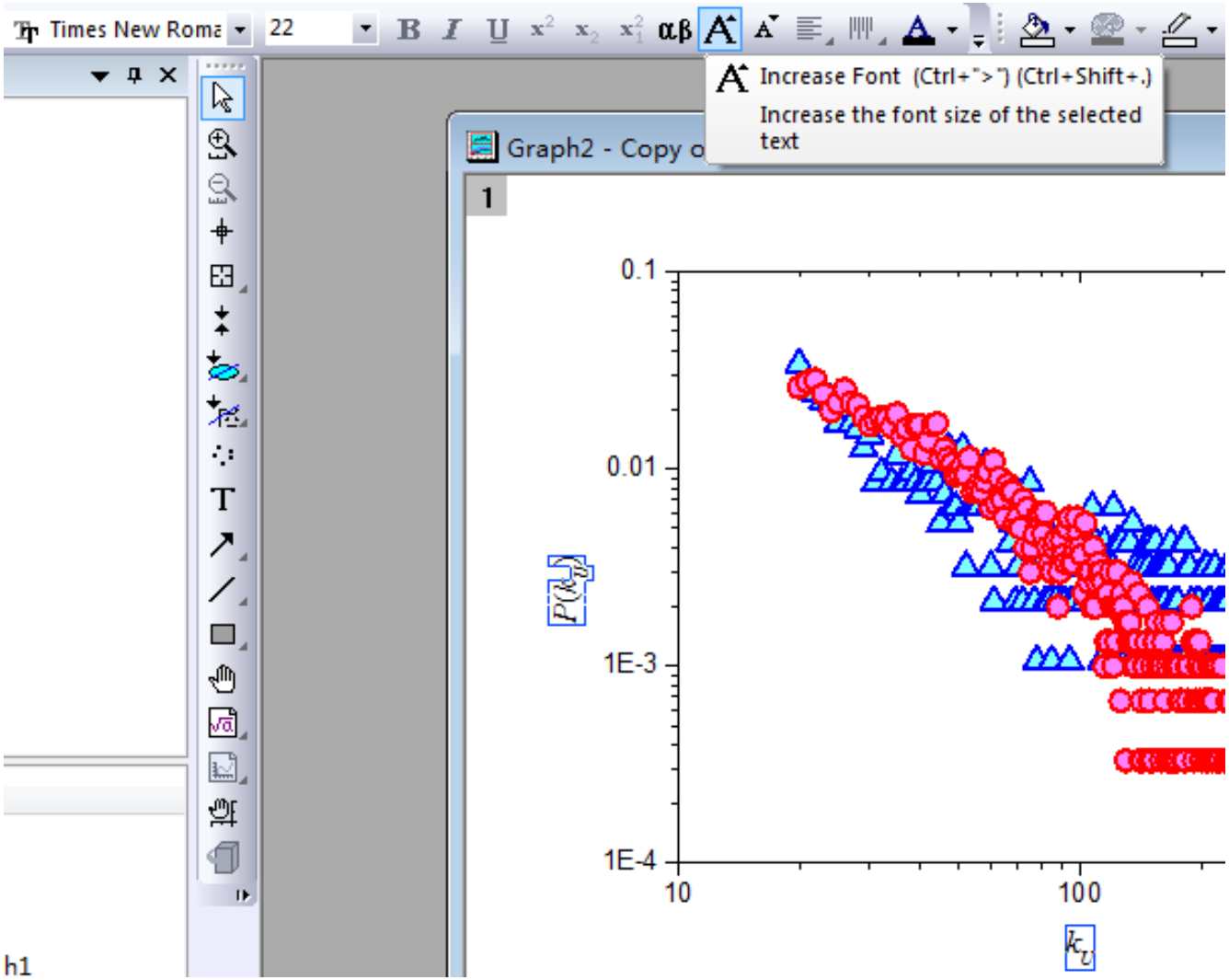






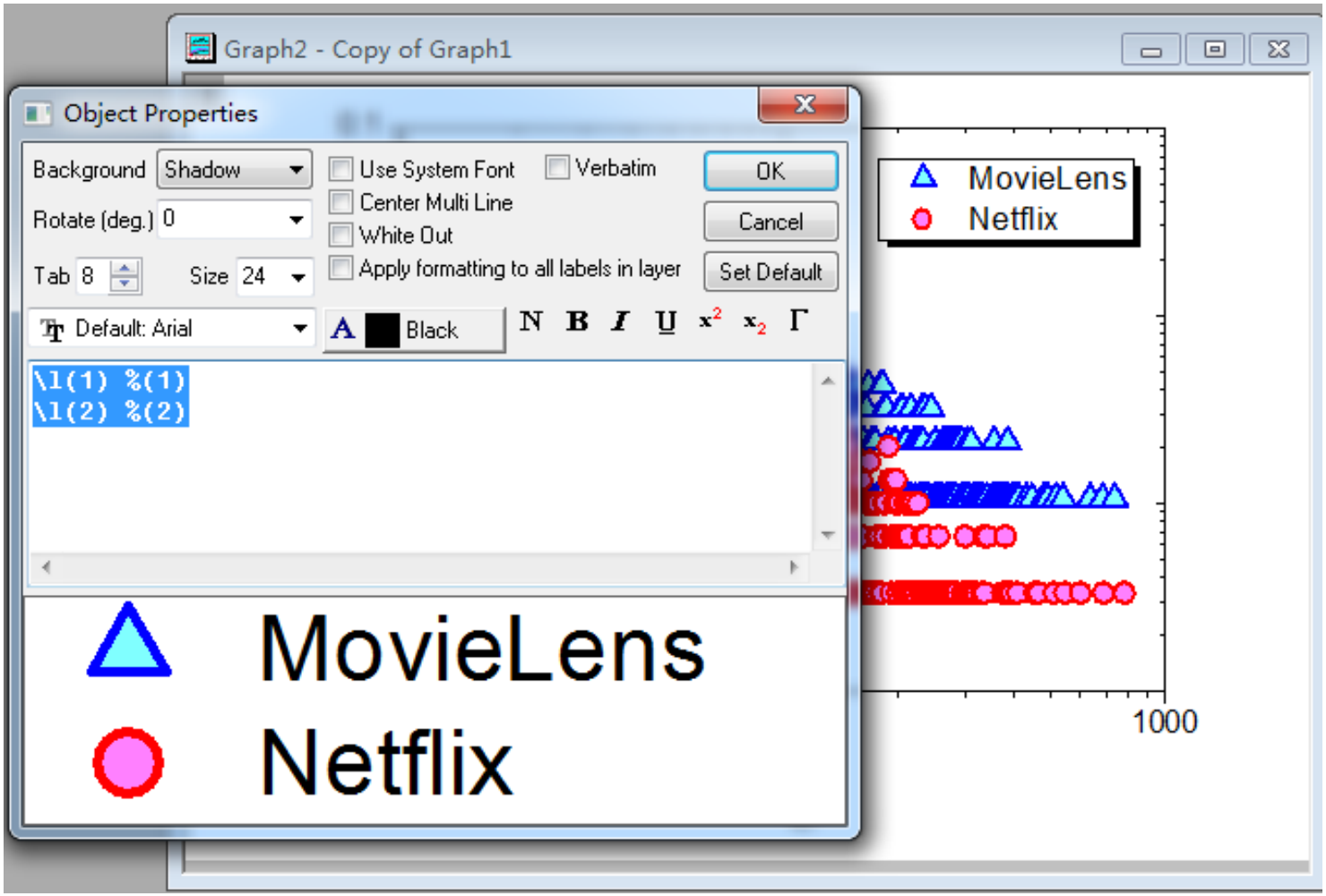
Function

Set font



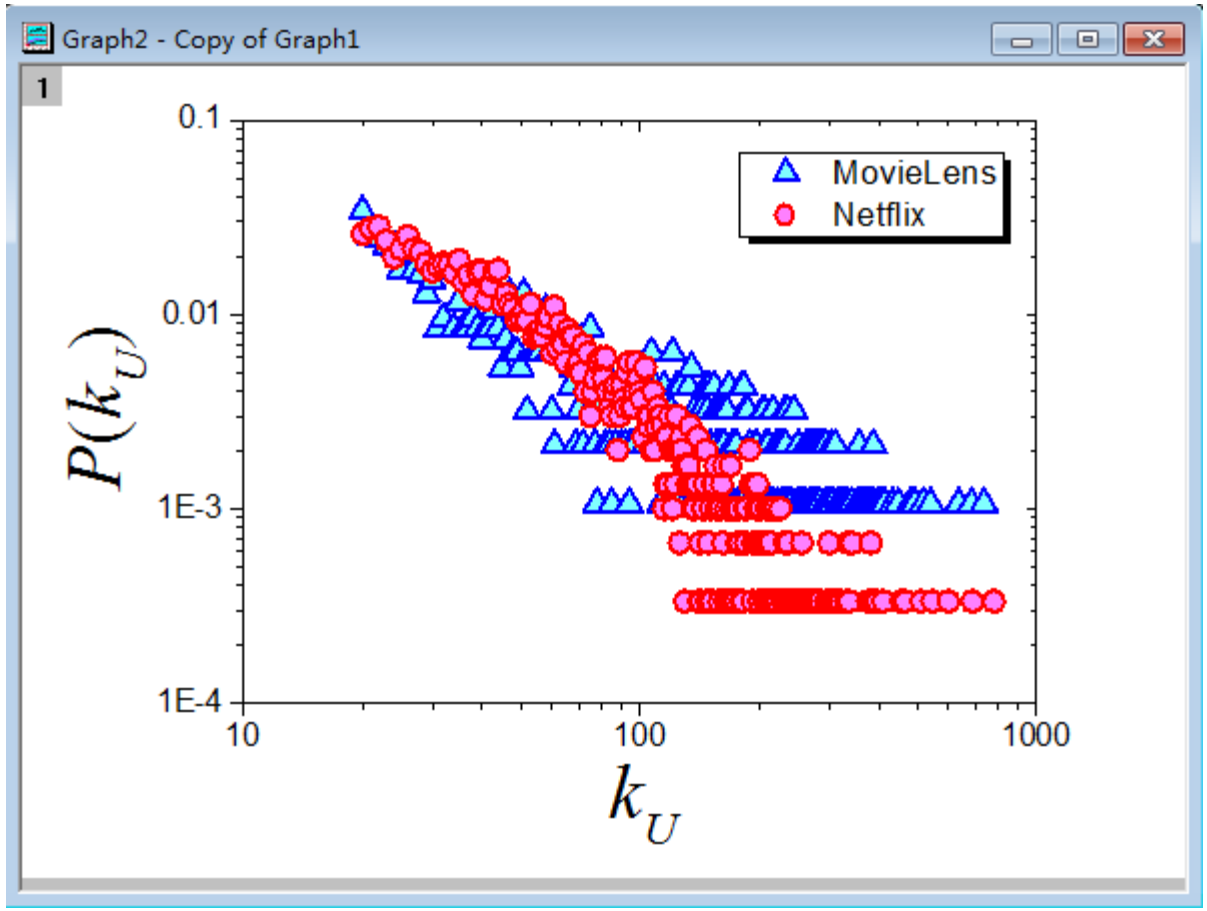
Function

Set legend



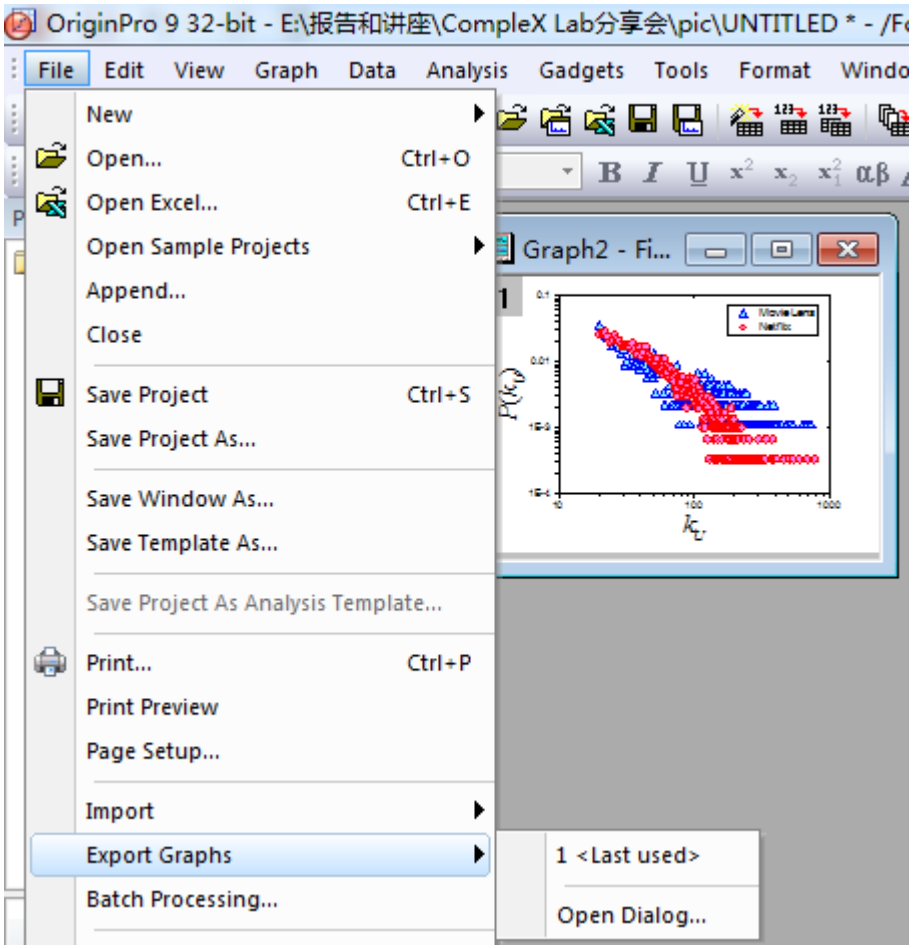
Function

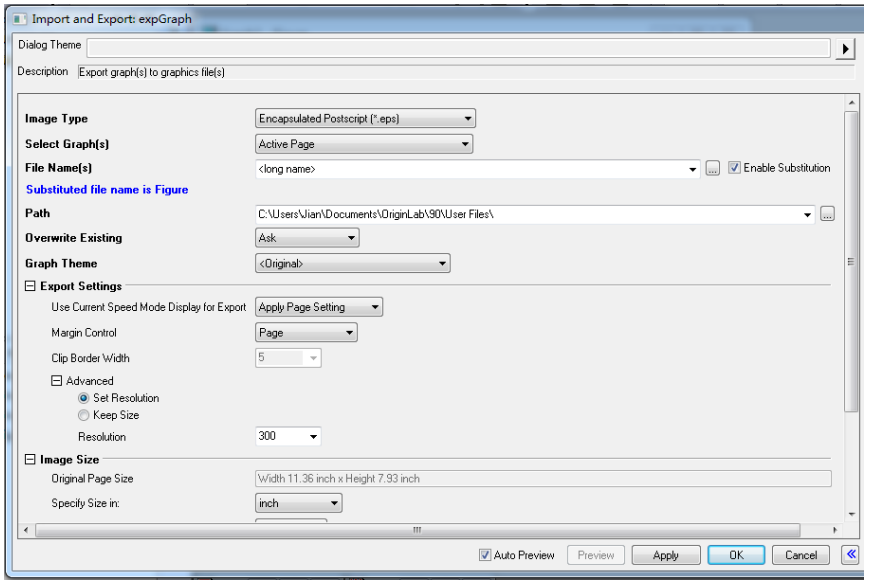
OK!!


Graph2 - Copy of Graph1
1
0.1
0.01
1E-3
1E-4
10
100
1000
$P(k_U)$
k_U
MovieLens
Netflix

Function

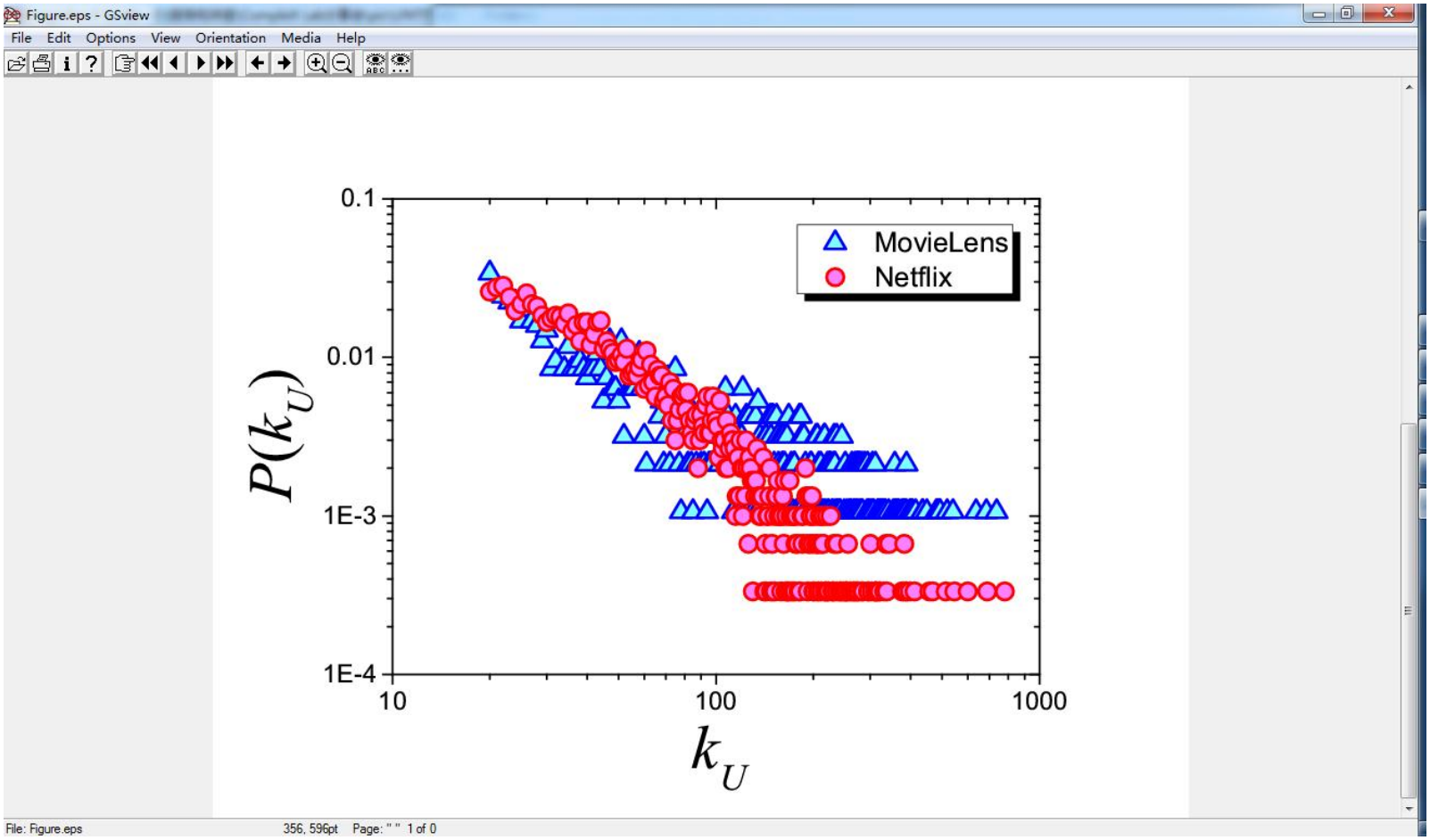
Export





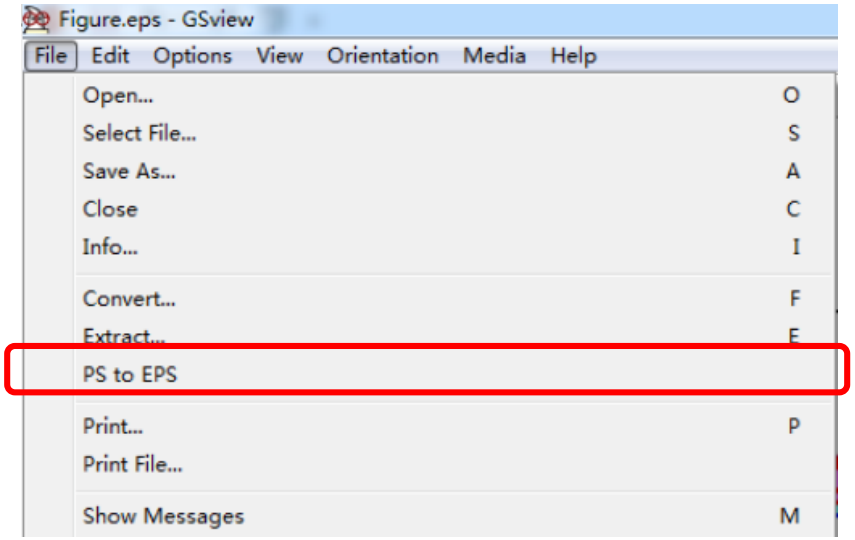
Function

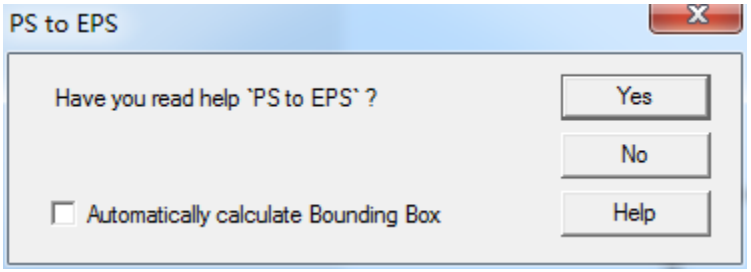
Figure.eps

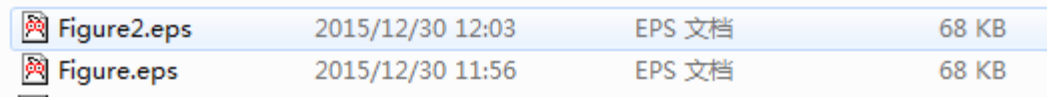


Function

Trimming

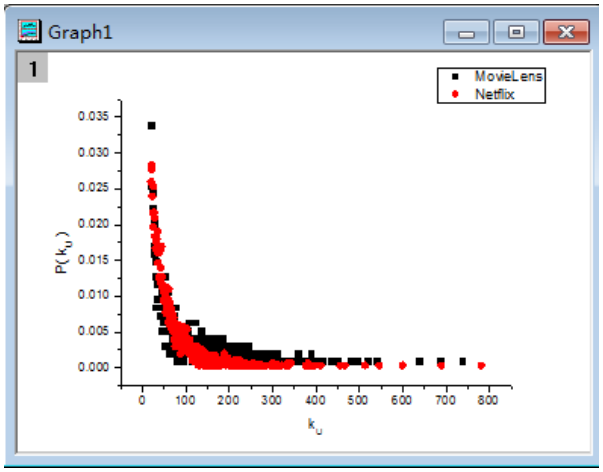


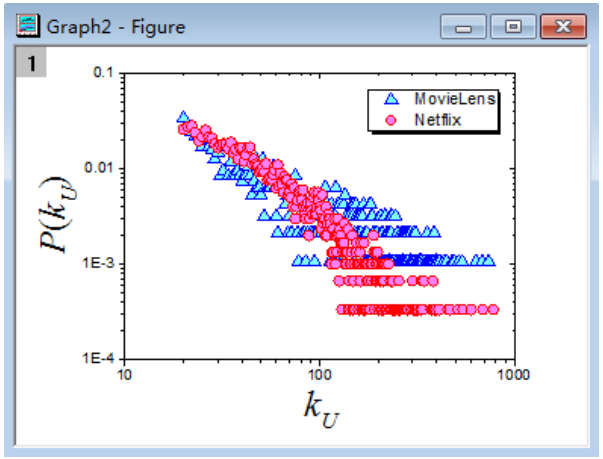


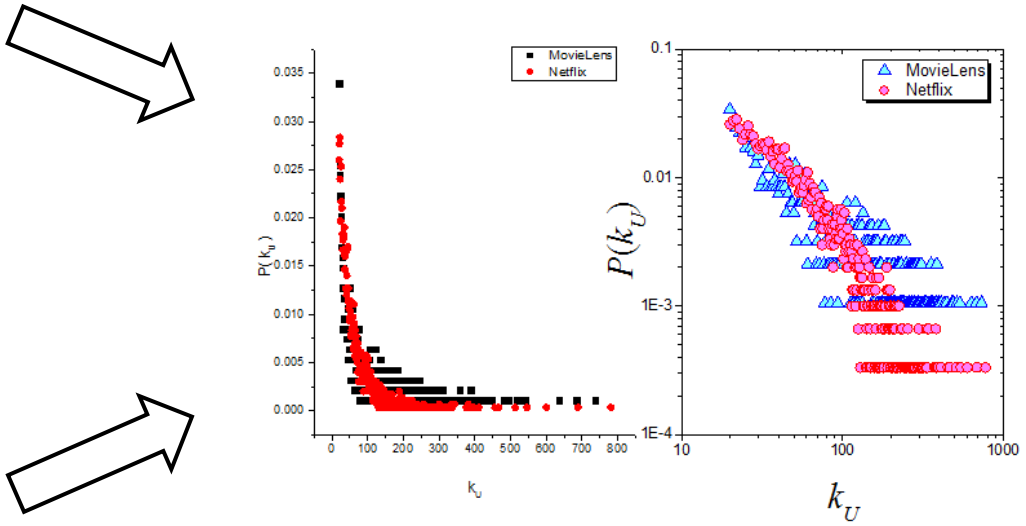


Function

Merge graph

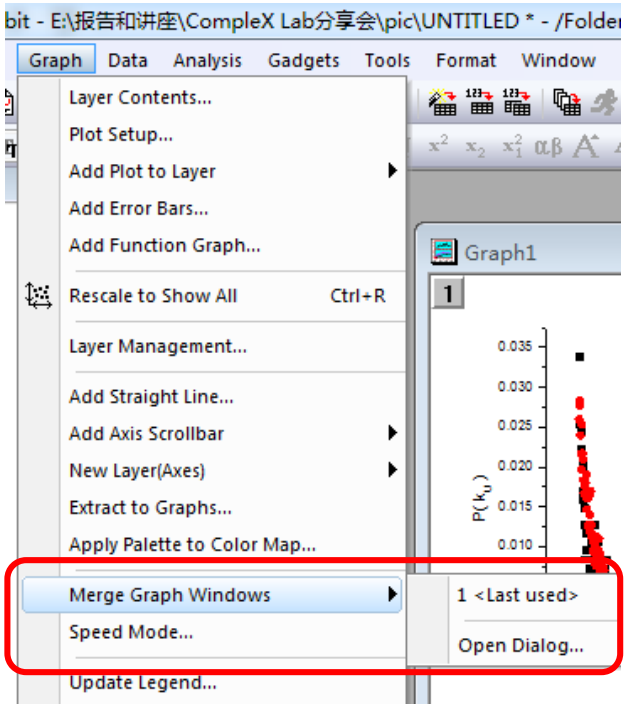


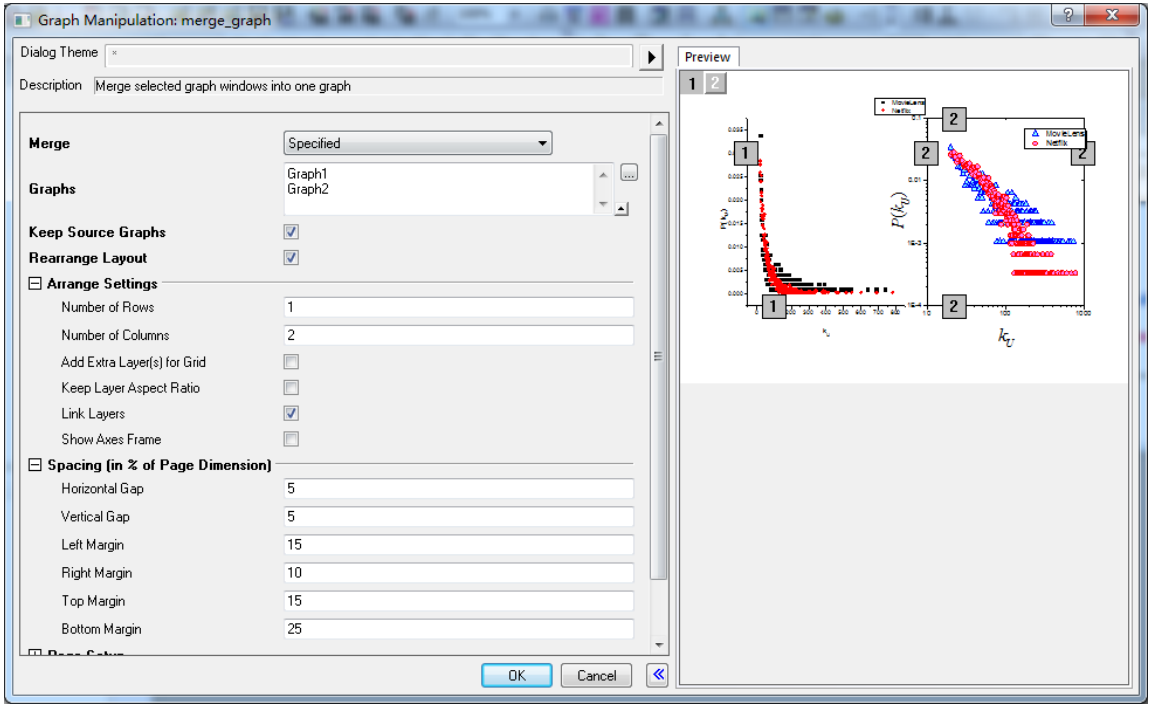




Function

Merge graph





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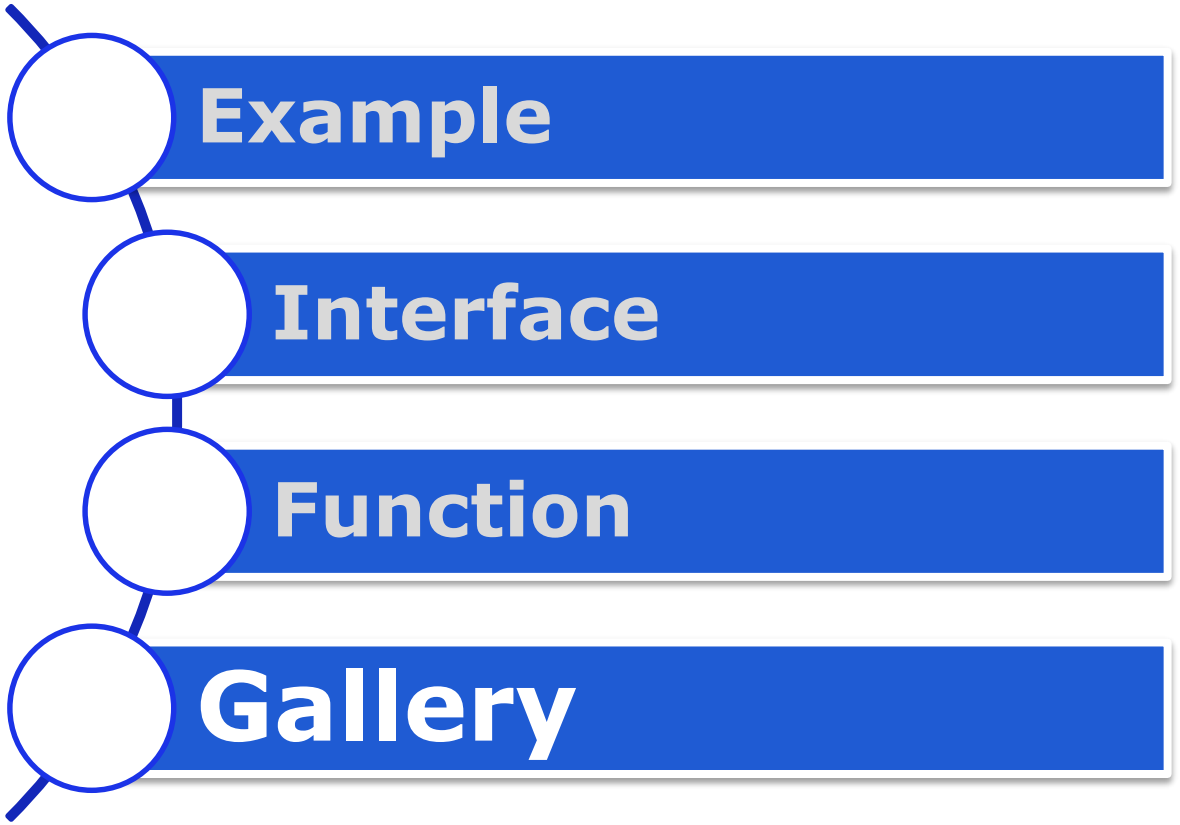
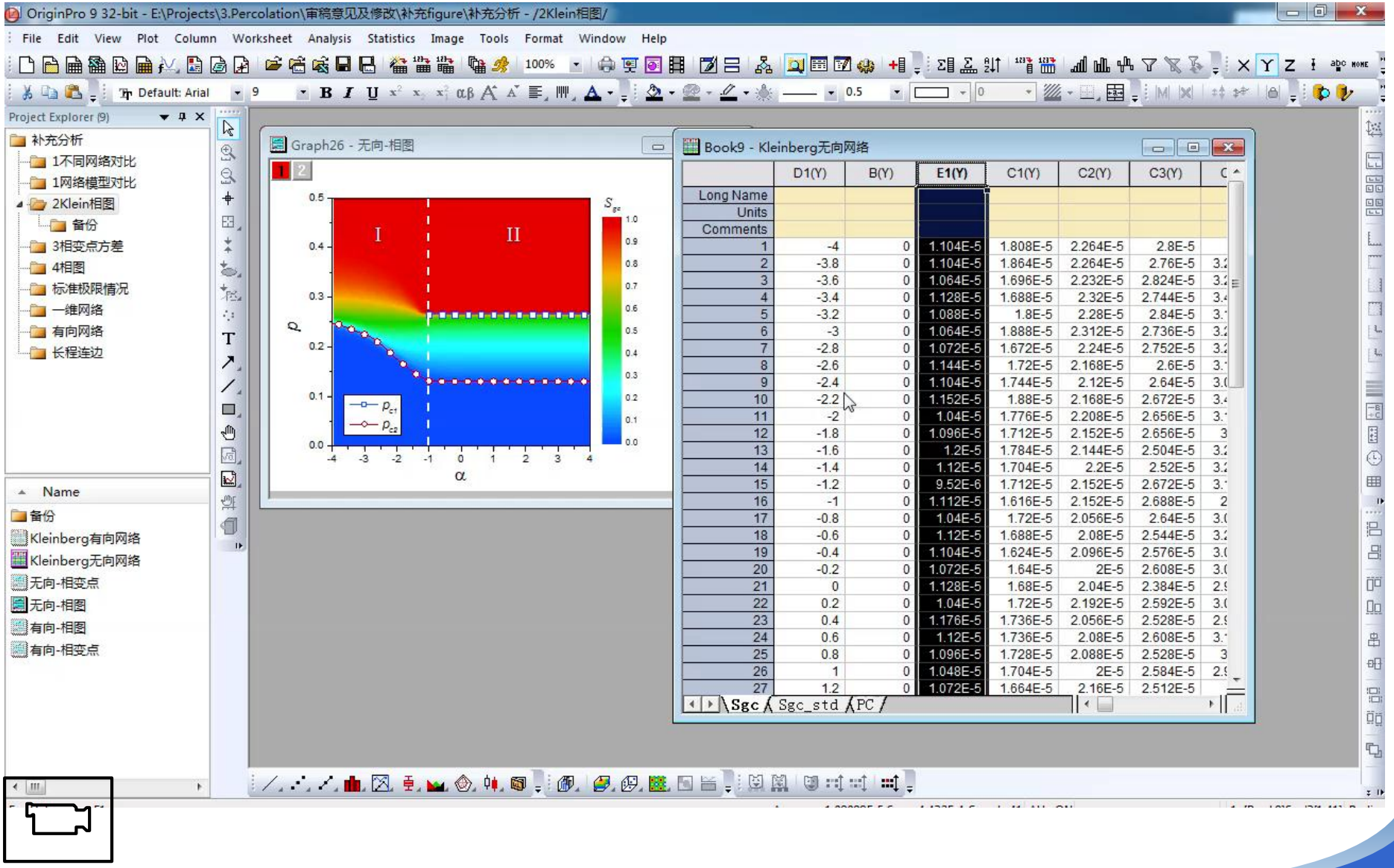


Gallery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Project Explorer (9)
补充分析
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1网络模型对比
2Klein相图
备份
3相变点方差
4相图
标准极限情况
一维网络
有向网络
长程连边
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备份
Kleinberg有向网络
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有向-相变点
Graph26 - 无向-相图
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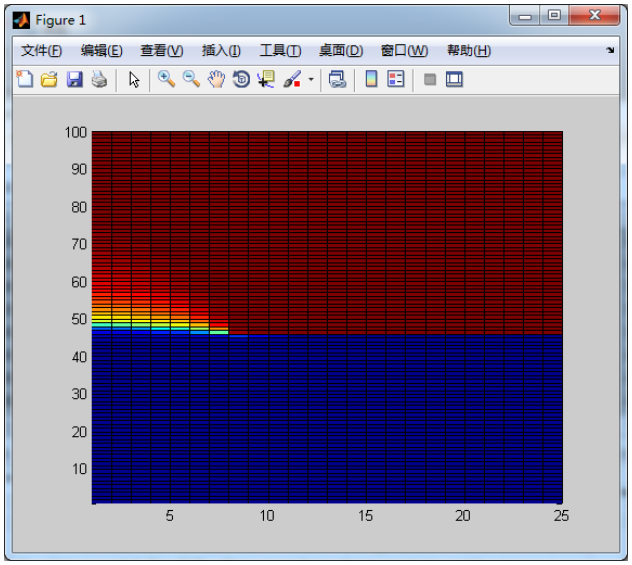
Figure 1
文件(F) 编辑(E) 查看(V) 插入(I) 工具(T) 桌面(D) 窗口(W) 帮助(H)
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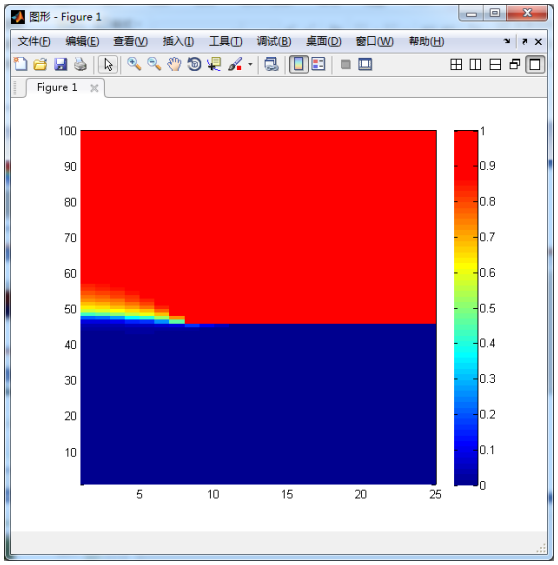
图形 - Figure 1
文件(F) 编辑(E) 查看(V) 插入(I) 工具(T) 调试(B) 桌面(D) 窗口(W) 帮助(H)
Figure 1
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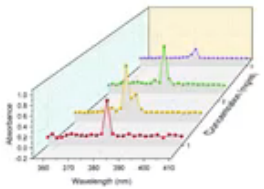
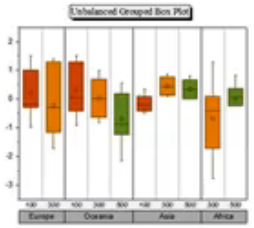

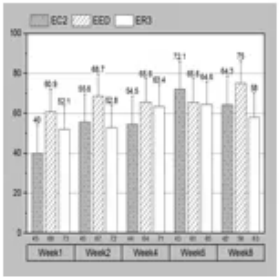
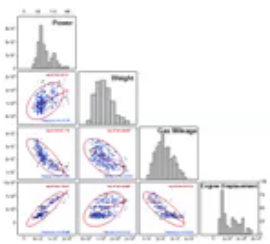
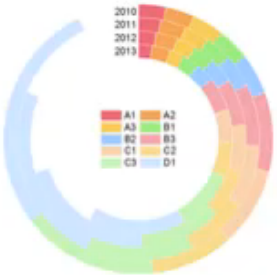
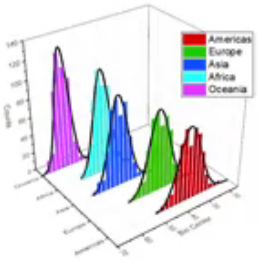
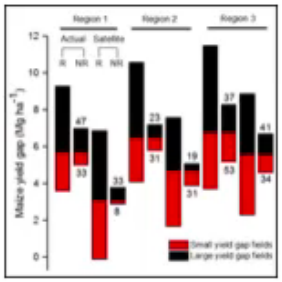
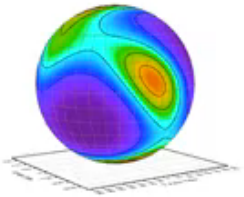

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