

Final Project

Math 6380J: A Mathematical Introduction to Data Analysis (数据分析的数学导论)

by HUANG, Yiyi (20391572), yhuangcm@connect.ust.hk

I analyzed Jiashun Jin's data on Coauthorship and Citation Networks for Statisticians. All was done independently.

First, adjacency matrix was generated from the file "Jiashun/coauthorship/coauthorAdjThreshGiant.txt". Then I drew adjacency graph according to the matrix. Vertices (authors) were clustered into several groups (communities) based on connectivity. At the same time, based on the number of coauthored papers (or say, degree of the vertex), "top" authors were found globally and in each group, respectively.

The same analysis was applied to the other two data files. Here are *Mathematica* codes and results.

```
data1 = "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdj.txt";
data2 = "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdjGiant.txt";
data3 =
    "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdjThreshGiant.txt";
names2 =
    "./Documents/data_analysis/Jiashun/coauthorship/authorListCoauthorGiant.txt";
names3 =
    "./Documents/data_analysis/Jiashun/coauthorship/authorListCoauthorThreshGiant.
    txt";
data = data3;
names = names3;
Style["The data used is " <> data, Blue, Large]
adjMatrix = ReadList[data, Number, RecordLists → True];
nameList = ReadList[names, String];
(*Dimensions[adjMatrix]
Dimensions[nameList]
adjMatrix[[1]]*)
Style["Here are adjacency graph without numbers,
with numbers and with names, respectively", Blue, Large]
adjGraphPoint = AdjacencyGraph[adjMatrix]
adjGraphNumber = AdjacencyGraph[adjMatrix, VertexLabels → "Name"]
adjGraphName = AdjacencyGraph[adjMatrix,
    VertexLabels → Table[i → nameList[[i]], {i, 1, Length[nameList]}]]
adjGraph = adjGraphNumber;
Style["\"Top\" 10 authors (from less to greater) are: ", Blue, Large]
degree = DegreeCentrality[adjGraph];
(*Sort[degree]*)
(* top n, from less to greater *)
Ordering[degree, -10];
```

```

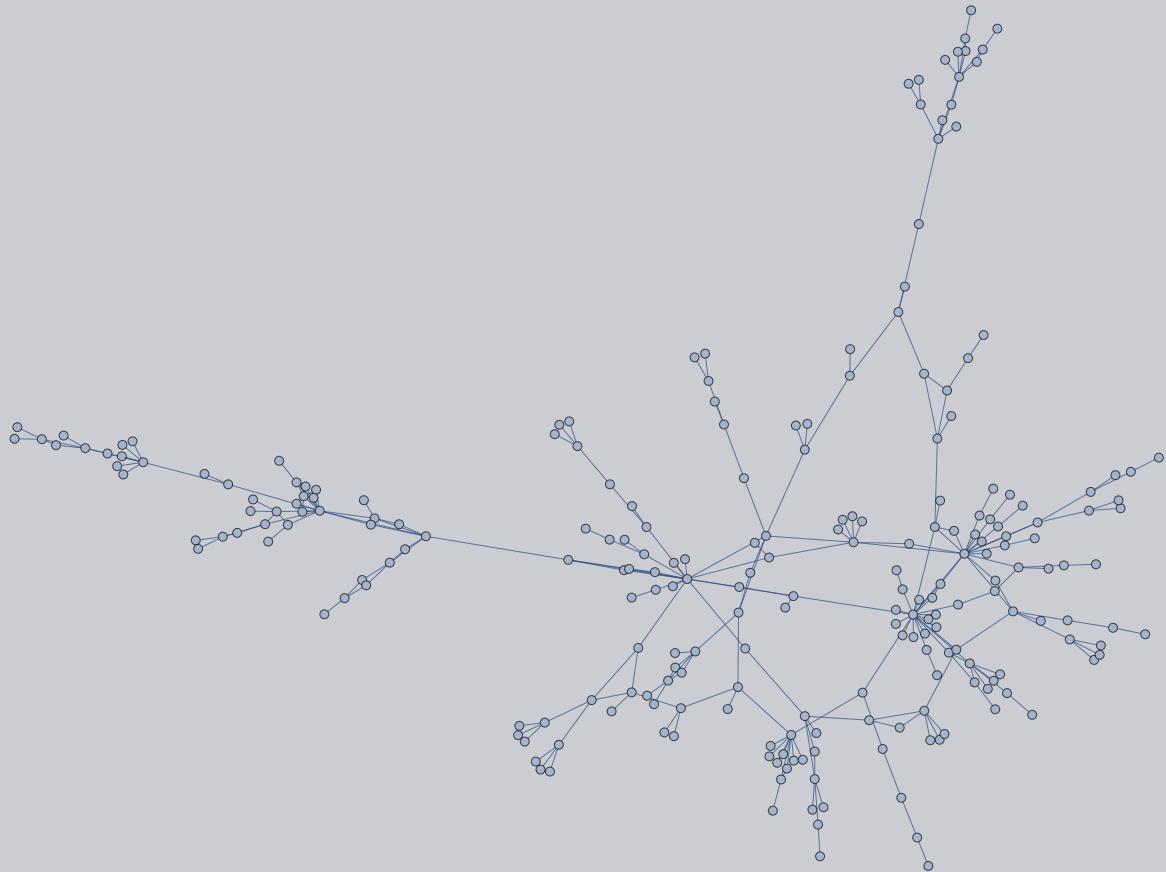
nameList[[%]]
groups = FindGraphCommunities[adjGraph];
(*Dimensions[groups]*)
Style["Cluster all authors into groups based on connectivity ", Blue, Large]
HighlightGraph[adjGraph, Subgraph[adjGraph, #] & /@groups]
CommunityGraphPlot[adjGraph, groups]
Table[
  Print@Style["Group " <> ToString[j], Magenta, Large];
  Print[nameList[[groups[[j]]]]];
  Print[Style["\"Top\" 2 authors in Group " <> ToString[j], Orange, Medium]];
  degreej = degree[[groups[[j]]]];
  groupTopIndex = Ordering[degreej, -2];
  groupTop = groups[[j]][[groupTopIndex]];
  Print[nameList[[groupTop]]],
  {j, 1, Length[groups]}];

```

The data used is

[./Documents/data_analysis/Jiashun/
coauthorship/coauthorAdjThreshGiant.txt](#)

Here are adjacency graph without numbers,
with numbers and with names, respectively

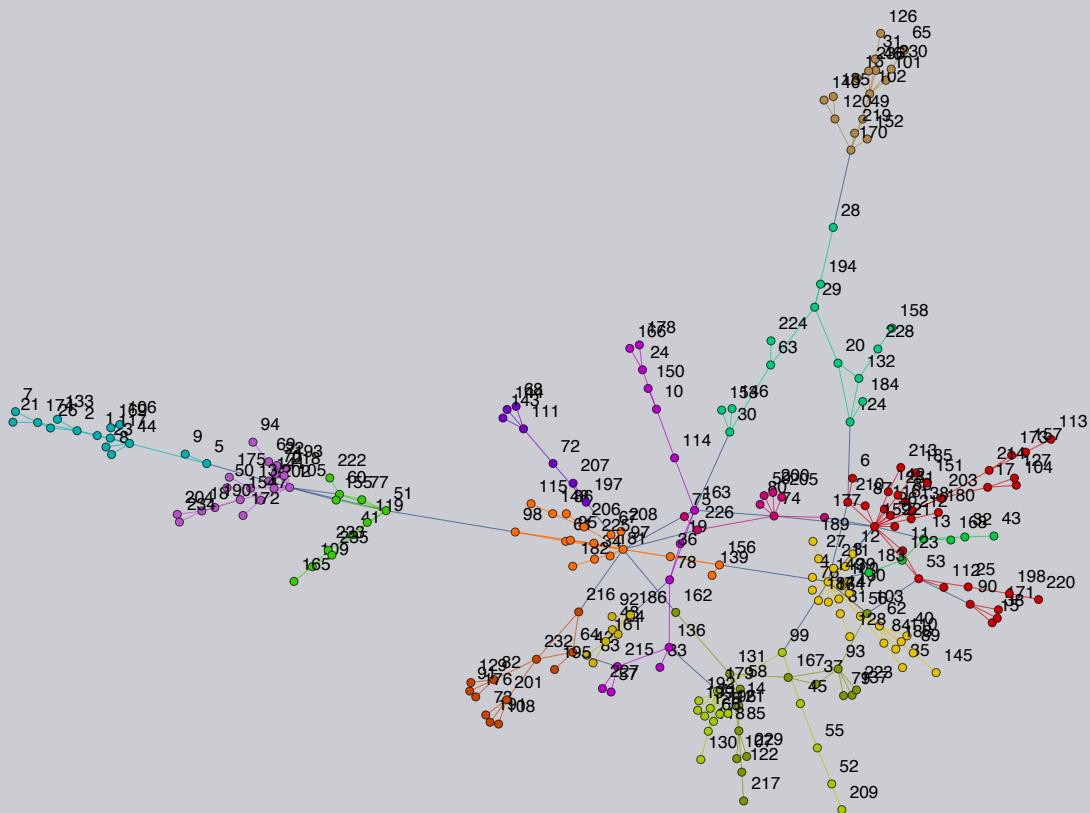


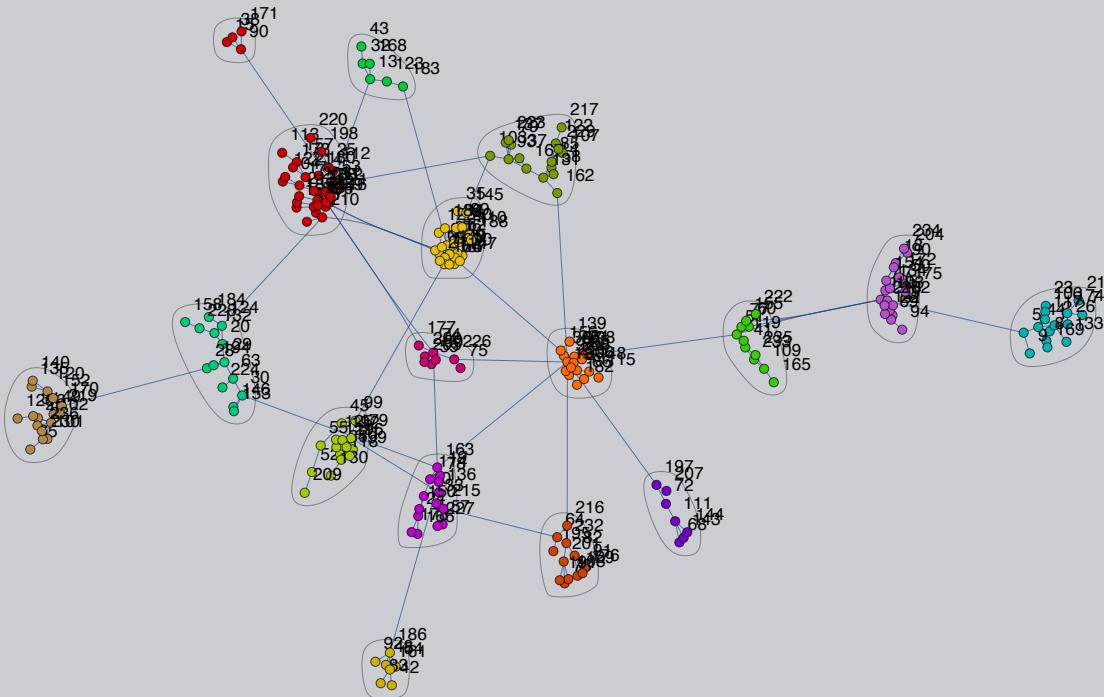


"Top" 10 authors
(from less to greater) are:

```
{"Hans-Georg Muller", "Hongtu Zhu", "David Dunson",  
 "Hua Liang", "Jing Qin", "T Tony Cai", "Joseph G Ibrahim",  
 "Jianqing Fan", "Raymond J Carroll", "Peter Hall"}
```

Cluster all authors into groups based on connectivity





Group 1

```
{"Anastasios A Tsiatis", "Arnab Maity", "Bin Nan", "Byeong U Park",
"Enno Mammen", "Jeffrey D Hart", "Jeffrey S Morris", "Jianhua Z Huang",
"John D Kalbfleisch", "Kyusang Yu", "Lan Huang", "Lan Zhou", "Menggang Yu",
"Naisyin Wang", "Nilanjan Chatterjee", "Philip J Brown", "Ram C Tiwari",
"Raymond J Carroll", "Subharup Guha", "Tailen Hsing", "Tiejun Tong",
"Wolfgang Karl Hardle", "Xihong Lin", "Yanyuan Ma", "Yehua Li",
"Yi-Hau Chen", "Yi Li", "Ying Chen", "Ying Wei", "Yuedong Wang"}
```

"Top" 2 authors in Group 1

```
{"Enno Mammen", "Raymond J Carroll"}
```

Group 2

```
{"Alexander Meister", "Amnon Neeman", "Aurore Delaigle", "Celine Vial",
"Ci-Ren Jiang", "D M Titterington", "Damla Senturk", "Fang Yao",
"Hans-Georg Muller", "Hugh Miller", "Ingrid Van Keilegom", "Jane-Ling Wang",
"Jeng-Min Chiou", "Jing-Hao Xue", "Kehui Chen", "Michael G Akritas",
"Pai-Ling Li", "Peihua Qiu", "Peter Hall", "Richard Samworth", "Ryan T Elmore",
"Tung Pham", "Ulrich Stadtmuller", "Vladimir Spokoiny", "Yao-Ban Chan"}
```

"Top" 2 authors in Group 2

```
{"Hans-Georg Muller", "Peter Hall"}
```

Group 3

```
{"Bing-Yi Jing", "Bradley S Peterson", "Debajyoti Sinha", "Dipak K Dey",
 "Heping Zhang", "Hongtu Zhu", "Jian Shi", "Joseph G Ibrahim", "Ming-Hui Chen",
 "Niansheng Tang", "Qi-Man Shao", "Stuart R Lipsitz", "Sungduk Kim",
 "Wang Zhou", "Weili Lin", "Xiaoyan Shi", "Xin-Bing Kong", "Yimei Li", "Zhi Liu"}
"Top" 2 authors in Group 3
{"Hongtu Zhu", "Joseph G Ibrahim"}
```

Group 4

```
{"Chunming Zhang", "Clifford Lam", "Haibo Zhou", "Heng Peng",
 "Jean Jacod", "Jiancheng Jiang", "Jianqing Fan", "Jianwen Cai",
 "Lan Zhang", "Neil Bathia", "Per Aslak Mykland", "Qiwei Yao",
 "Tao Huang", "Tao Yu", "Yacine Ait-Sahalia", "Yang Feng", "Yingying Fan"}
"Top" 2 authors in Group 4
{"Qiwei Yao", "Jianqing Fan"}
```

Group 5

```
{"Bee Leng Lee", "Cun-Hui Zhang", "Guang Cheng", "Huiliang Xie", "Jason P Fine",
 "Jian Huang", "Joel L Horowitz", "Jun Yan", "Limin Peng", "Michael R Kosorok",
 "Minggen Lu", "Rui Song", "Shuangge Ma", "Yijian Huang", "Ying Zhang", "Yu Cheng"}
"Top" 2 authors in Group 5
 {"Michael R Kosorok", "Jian Huang"}
```

Group 6

```
{"Biao Zhang", "Chiung-Yu Huang", "Dean A Follmann",
 "Denis Heng-Yan Leung", "Hao Liu", "Jing Ning", "Jing Qin",
 "Liang Peng", "Mei-Cheng Wang", "Ming-Yen Cheng", "Ngai Hang Chan",
 "Ping-Shou Zhong", "Song Xi Chen", "Ying-Li Qin", "Yu Shen", "Zonghui Hu"}
"Top" 2 authors in Group 6
 {"Song Xi Chen", "Jing Qin"}
```

Group 7

```
{"Abel Rodriguez", "Alan E Gelfand", "Amy H Herring", "Andrew O Finley",
 "Anirban Bhattacharya", "Anna Maria Siega-Riz", "Bradley P Carlin",
 "Brian J Reich", "C F Sirmans", "David Dunson", "Ju-Hyun Park",
 "Lawrence Carin", "Michele Guindani", "Shyamal Das Peddada", "Sudipto Banerjee"}
"Top" 2 authors in Group 7
 {"Alan E Gelfand", "David Dunson"}
```

Group 8

```
{"David L Donoho", "Emmanuel J Candes", "Ery Arias-Castro",
 "Harrison H Zhou", "Hongzhe Li", "Jiashun Jin", "Lawrence D Brown",
 "Lie Wang", "Mark G Low", "Michael Levine", "T Tony Cai",
 "Weidong Liu", "Wenguang Sun", "X Jessie Jeng", "Yaniv Plan"}
```

"Top" 2 authors in Group 8

```
{"Lawrence D Brown", "T Tony Cai"}
```

Group 9

```
{"Annie Qu", "Bo Kai", "Bruce G Lindsay", "Christina Kendziorski",
 "Grace Wahba", "Hui Zou", "Lan Wang", "Ming Yuan", "Peter X-K Song",
 "Runze Li", "Shu-Chuan Chen", "Surajit Ray", "Yi Lin", "Yongho Jeon"}
```

"Top" 2 authors in Group 9

```
{"Yi Lin", "Runze Li"}
```

Group 10

```
{"Bo Li", "Cheng Yong Tang", "Chenlei Leng", "Chih-Ling Tsai",
 "Hansheng Wang", "Marc G Genton", "Michael Sherman", "Peide Shi",
 "Prasad A Naik", "Rasmus Waagepetersen", "Tatiyana V Apanasovich",
 "Weiping Zhang", "Yingcun Xia", "Yongtao Guan"}
```

"Top" 2 authors in Group 10

```
{"Chih-Ling Tsai", "Marc G Genton"}
```

Group 11

```
{"Hao Helen Zhang", "Hsin-Cheng Huang", "J S Marron",
 "Jeongyoun Ahn", "Junhui Wang", "Michael J Todd", "Sungkyu Jung",
 "Wei Pan", "Wenbin Lu", "Xiaotong Shen", "Yichao Wu", "Yufeng Liu"}
```

"Top" 2 authors in Group 11

```
{"Xiaotong Shen", "Yufeng Liu"}
```

Group 12

```
{"Dan Yu Lin", "Donglin Zeng", "Guosheng Yin", "Hui Li", "Kani Chen", "Li Chen",
 "Qingxia Chen", "Shaojun Guo", "Ying Yuan", "Zhezhen Jin", "Zhiliang Ying"}
```

"Top" 2 authors in Group 12

```
{"Guosheng Yin", "Donglin Zeng"}
```

Group 13

```
{"Guohua Zou", "Hua Liang", "Huazhen Lin", "Hulin Wu",
 "Suojin Wang", "Xiang Liu", "Xinyu Zhang", "Yong Zhou"}
```

"Top" 2 authors in Group 13

```
{"Yong Zhou", "Hua Liang"}
```

Group 14

```
{"Daniela M Witten", "Debashis Paul", "Eric Bair", "Jacob Bien",
"Jerome H Friedman", "Robert J Tibshirani", "Trevor J Hastie"}
"Top" 2 authors in Group 14
{"Robert J Tibshirani", "Trevor J Hastie"}
```

Group 15

```
{"Henghsiu Tsai", "Howell Tong", "Kung-Sik Chan",
"Nils Chr Stenseth", "Noelle I Samia", "Wenyang Zhang", "Yan Sun"}
"Top" 2 authors in Group 15
 {"Wenyang Zhang", "Kung-Sik Chan"}
```

Group 16

```
{"Bani Mallick", "Chris C Holmes", "David A Stephens",
"Malay Ghosh", "Shubhankar Ray", "Tapabrata Maiti"}
"Top" 2 authors in Group 16
 {"Tapabrata Maiti", "Bani Mallick"}
```

Group 17

```
{"Bent Nielsen", "D Kuang", "Jens Perch Nielsen", "Stefan Sperlich"}
"Top" 2 authors in Group 17
 {"D Kuang", "Jens Perch Nielsen"}
```

```
data1 = "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdj.txt";
data2 = "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdjGiant.txt";
data3 =
    "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdjThreshGiant.txt";
names2 =
    "./Documents/data_analysis/Jiashun/coauthorship/authorListCoauthorGiant.txt";
names3 =
    "./Documents/data_analysis/Jiashun/coauthorship/authorListCoauthorThreshGiant.
    txt";
data = data2;
names = names2;
Style["The data used is " <> data, Blue, Large]
adjMatrix = ReadList[data, Number, RecordLists → True];
nameList = ReadList[names, String];
(*Dimensions[adjMatrix]
```

```

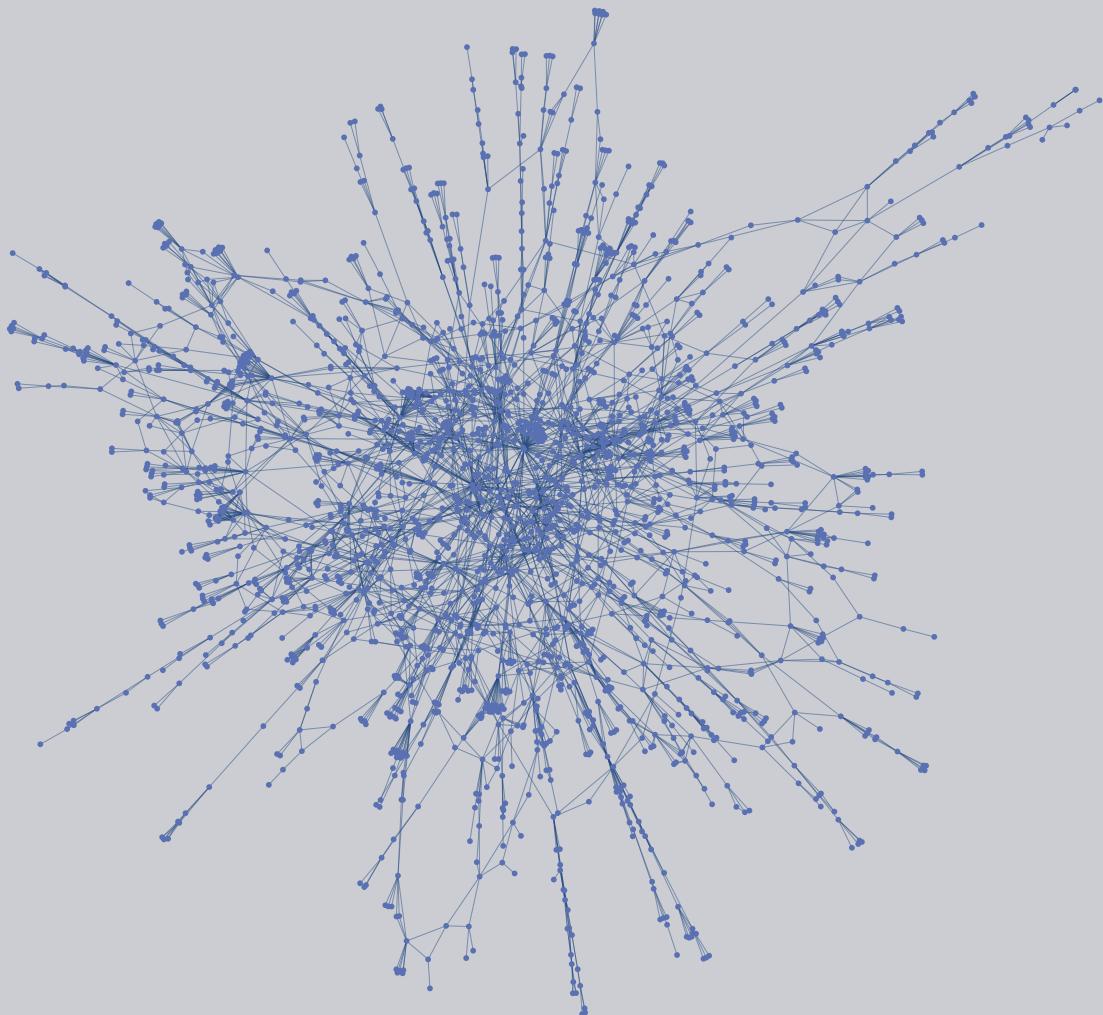
Dimensions[nameList]
adjMatrix[[1]]*)
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adjGraphPoint = AdjacencyGraph[adjMatrix]
adjGraphNumber = AdjacencyGraph[adjMatrix, VertexLabels → "Name"]
adjGraphName = AdjacencyGraph[adjMatrix,
VertexLabels → Table[i → nameList[[i]], {i, 1, Length[nameList]}]]
adjGraph = adjGraphNumber;
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degree = DegreeCentrality[adjGraph];
(*Sort[degree]*)
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Ordering[degree, -10];
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(*Dimensions[groups]*)
Style["Cluster all authors into groups based on connectivity ", Blue, Large]
HighlightGraph[adjGraph, Subgraph[adjGraph, #] & /@groups]
CommunityGraphPlot[adjGraph, groups]
Table[
Print@Style["Group " <> ToString[j], Magenta, Large];
Print[nameList[[groups[[j]]]]];
Print[Style["\"Top\" 2 authors in Group " <> ToString[j], Orange, Medium]];
degreej = degree[[groups[[j]]]];
groupTopIndex = Ordering[degreej, -2];
groupTop = groups[[j]][[groupTopIndex]];
Print[nameList[[groupTop]]];
{j, 1, Length[groups]}];

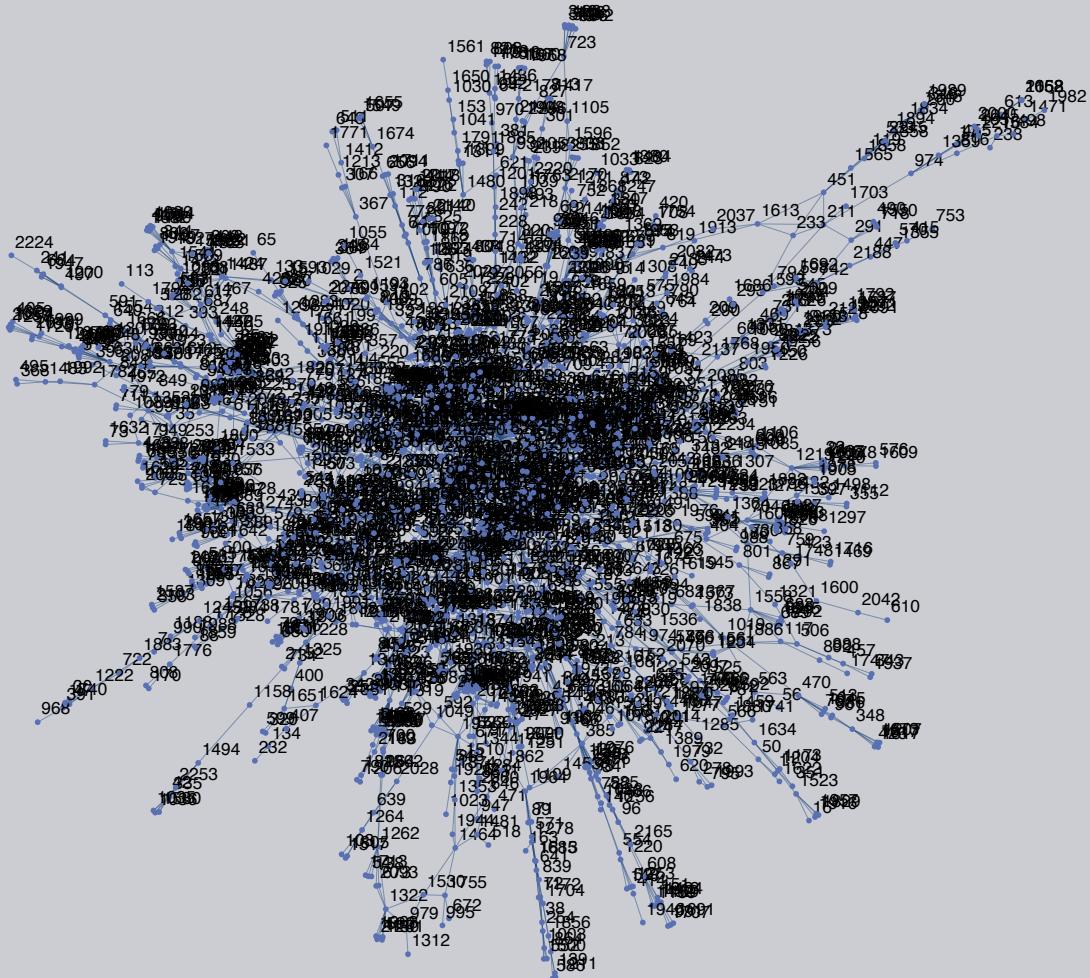
```

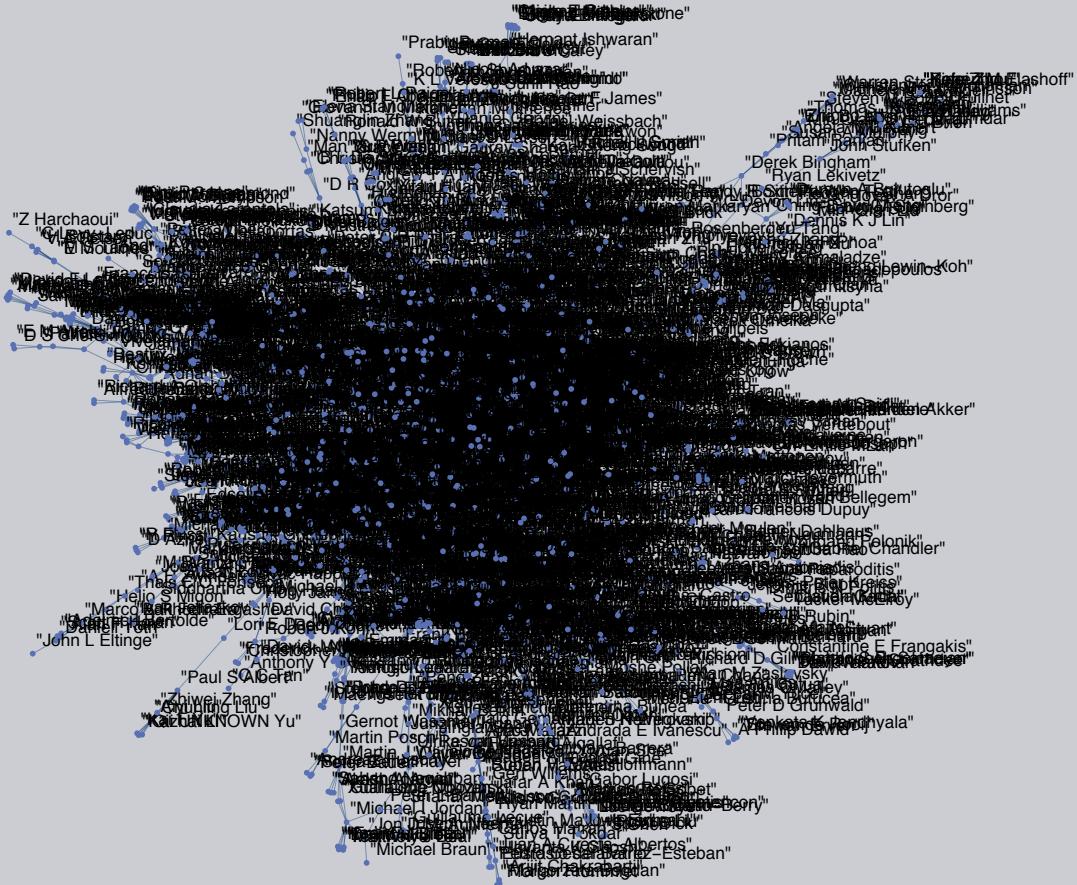
The data used is

[./Documents/data_analysis/Jiashun/coauthorship/coauthorAdjGiant.txt](#)

Here are adjacency graph without numbers,
with numbers and with names, respectively



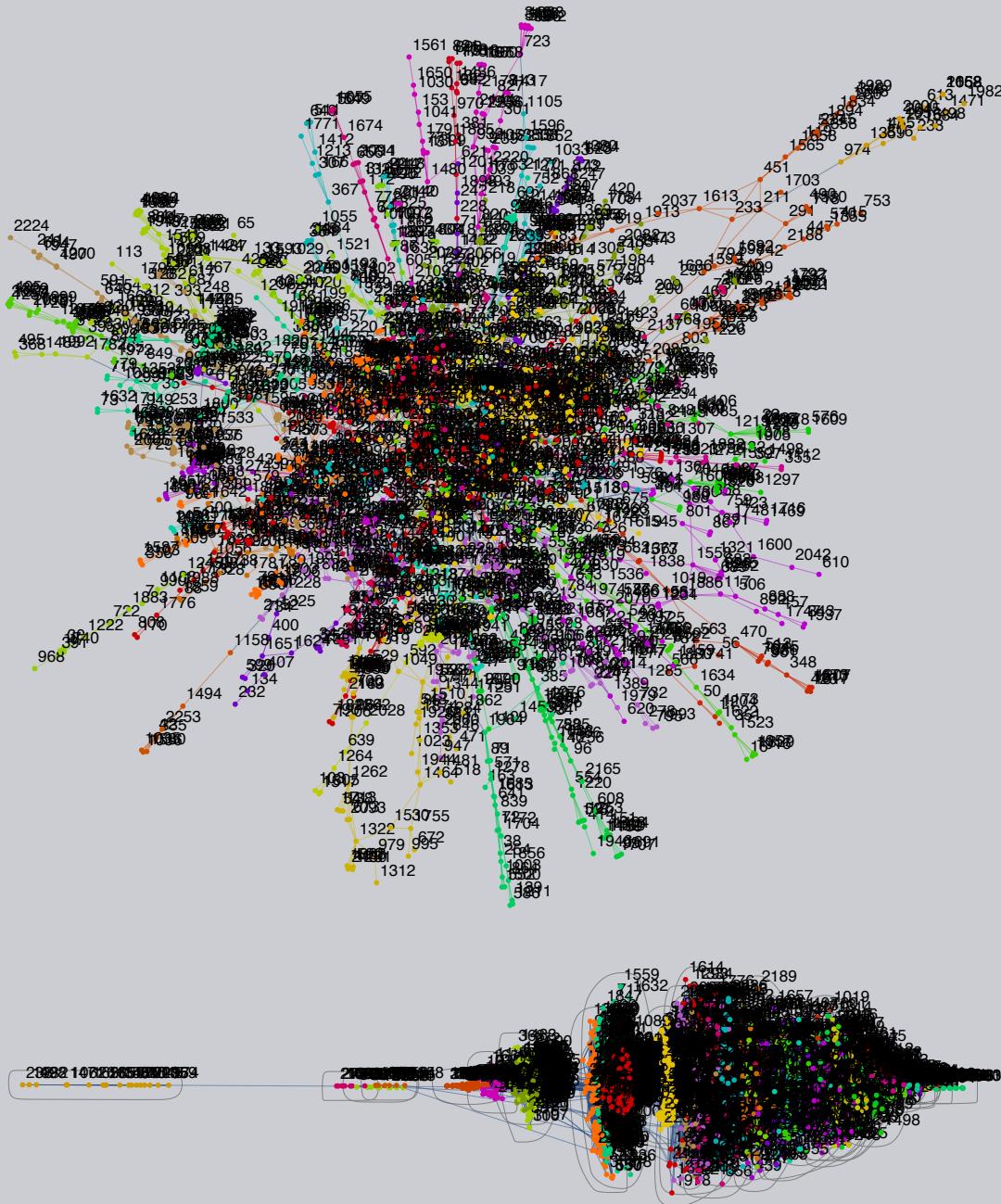




"Top" 10 authors
(from less to greater) are:

```
{"Ciprian M Crainiceanu", "Holger Dette", "James O Berger",
 "Lixing Zhu", "Hongtu Zhu", "David Dunson", "Jianqing Fan",
 "Joseph G Ibrahim", "Raymond J Carroll", "Peter Hall"}
```

Cluster all authors into
groups based on connectivity



Group 1

{"Alan H Welsh", "Alexandre Rodrigues", "Amanda S Hering", "Ana-Maria Staicu",
 "Andre Lucas", "Anouar El Ghouch", "Anthony C Hart", "Arnab Maity",
 "Arnost Komarek", "Barry Rowlingson", "Bent Nielsen", "Bernd Fitzenberger",
 "Bhramar Mukherjee", "Bin Nan", "Bing Li", "Bo Kai", "Bo Li", "Brian S Caffo",
 "Byeong U Park", "C A Field", "C Messan Setodji", "Carlos Acuna",
 "Carmen Cadarso-Suarez", "Caroline Beunckens", "Catherine Schairer",
 "Celia Byrne", "Changliang Zou", "Chenlei Leng", "Chi-Lun Cheng",

"Chih-Ling Tsai", "Chong-Zhi Di", "Christel Faes", "Christian Peter Klingenberg",
"Christine H Muller", "Christoph Rothe", "Christopher J Nachtsheim",
"Chunfeng Huang", "Chunlei Ke", "Ciprian M Crainiceanu", "Colin M Beale",
"Craig W Hendrix", "Cristina Sotto", "D Kuang", "David Ruppert", "David Y Pee",
"Dennis Cook", "Dimitris Rizopoulos", "Donghoh Kim", "Douglas G Simpson",
"E Ferreira", "Efi S Antoniou", "Emily L Kang", "Emmanuel Lesaffre", "Enno Mammen",
"Fauzia Paize", "Francesca Chiaromonte", "Fredrik A Dahl", "Galin L Jones",
"Ganggang Xu", "Gardar Johannesson", "Geert Molenberghs", "Geert Verbeke",
"Gerda Claeskens", "Gilbert Mackenzie", "Gunnhildur Hognadottir Steinbakk",
"Guodong Li", "H Thijs", "Hansheng Wang", "Haobo Ren", "Heather Spencer Feigelson",
"Helena Geys", "Hongyuan Zha", "Hua Liang", "Huajun Ye", "Huiyan Sang",
"Il Do Ha", "Ingrid Van Keilegom", "Ivan Mizera", "J L Scealy", "J T Ormerod",
"Jacques Benichou", "Jae Keun Yoo", "James A Calvin", "James M Flegal",
"James R Robins", "Jeffrey D Hart", "Jeng-Min Chiou", "Jens Perch Nielsen",
"Jian Shi", "Jianhua Z Huang", "Jianxin Pan", "Jinbo Chen", "Joanne R Lupton",
"John P Buonaccorsi", "John Staudenmayer", "Josue G Martinez", "Jouni Kuha",
"Jussi Klemela", "Kam-Chuen Yuen", "Kevin K Dobbin", "Kyusang Yu",
"Lan Wang", "Lan Xue", "Lan Zhou", "Leopold Simar", "Lexin Li", "Li Wang",
"Lianfen Qian", "Lijian Yang", "Lijuan Deng", "Liliana Forzani", "Lin Xu Liu",
"Liping Zhu", "Liqiang Ni", "Liugen Xue", "Lixing Zhu", "Louis Ferre",
"Lu Lin", "Lynda D Lisabeth", "M P Wand", "Maengseok Noh", "Marc Aerts",
"Marc G Genton", "Margaret R Karagas", "Maria Dolores Martinez Miranda",
"Maria Jose Lombardia", "Martica Hall", "Martin Hillebrand", "Meeyoung Hong",
"Melanie Schienle", "Mi-Ja Woo", "Michael G Akritas", "Michael G Kenward",
"Michael Sherman", "Michelle Stanton", "Min Hee Kim", "Min Kyung Kim",
"Minge Xie", "Mitchell H Gail", "Mohsen Pourahmadi", "Monica Cano",
"Murali Haran", "N Papadatos", "Naiping Liu", "Naisyin Wang", "Nancy D Turner",
"Naomi Altman", "Naresh M Punjabi", "Nilanjan Chatterjee", "Nils Lid Hjort",
"Noel Cressie", "Norman E Breslow", "Olga Y Savchuk", "Oliver B Linton",
"Pai-Ling Li", "Peide Shi", "Pengjie Dai", "Peter J Diggle", "Prasad A Naik",
"Qihua Wang", "R Dennis Cook", "R J Buchanan", "R L Eubank", "Rajeev Ayyagari",
"Rajita Sinha", "Rasmus Waagepetersen", "Raymond J Carroll", "Reinhard Furrer",
"Robert T Krafty", "Roger Koenker", "Ronald Neath", "Ronghua Luo",
"Ross Iaci", "Runze Li", "Russ Hauser", "Ryan Janicki", "Sally W Thurston",
"Samiran Sinha", "Samuel Muller", "Sanford Weisberg", "Sara van de Geer",
"Sarah J Ratcliffe", "Seok-Oh Jeong", "Sheng Luo", "Simon J Sheather",
"Sioban D Harlow", "Songqiao Wen", "Stefan Sperlich", "Sung-Cheol Yun",
"Suojin Wang", "Szymon Borak", "T N Sriram", "Tae Yoon Kim", "Tailen Hsing",
"Tao Wang", "Tatiyana V Apanasovich", "Thomas A Louis", "Thomas T Ten Have",
"Tianle Hu", "Tiejun Tong", "Tor D Tosteson", "Tyler J Vanderweele",
"Uta Pigorsch", "Vadim M Zipunnikov", "Veerabhadran Baladandayuthapani", "W L Xu",
"W Ryan Diver", "Wai Keung Li", "Weiping Zhang", "Wensheng Guo", "Winfried Stute",
"Wolfgang Karl Hardle", "Xia Cui", "Xiang Liu", "Xiangrong Yin", "Xiaobo Ding",
"Xihong Lin", "Xin Chen", "Y Munoz Maldonado", "Yaning Yang", "Yanyuan Ma",

"Ye Shen", "Yehua Li", "Yi-Hau Chen", "Ying Chen", "Ying Sun", "Ying Wei",
 "Yingxing Li", "Yiyun Zhang", "Yongtao Guan", "Yongwu Shao", "Young Kyung Lee",
 "Youngjo Lee", "Yu-Jen Cheng", "Yuanqing Ye", "Yuedong Wang", "Yuexiao Dong",
 "Yulia V Marchenko", "Yun Sam Chong", "Yunling Du", "Zengri Wang", "Zhangsheng Yu",
 "Zhen Pang", "Zhenghui Feng", "Zhihua Su", "Zhijie Xiao", "Zonghui Hu"}

"Top" 2 authors in Group 1

{"Lixing Zhu", "Raymond J Carroll"}

Group 2

{"A B Kristoffersen", "A Galichon", "Abhyuday Mandal", "Adonis Yatchew",
 "Alan T K Wan", "Alexander Meister", "Alexandre Belloni", "Alysha M De Livera",
 "Amnon Neeman", "Andrew P Robinson", "Andrew V Carter", "Aurore Delaigle",
 "Baiqi Miao", "Bee Leng Lee", "Bitao Liu", "Brent A Johnson", "Brian S Yandell",
 "Chengcheng Hu", "Chia-Hung Yen", "Chien-Tai Lin", "Chunfang Jin",
 "Chunming Zhang", "Ci-Ren Jiang", "Clifford Lam", "Cun-Hui Zhang",
 "Dacheng Xiu", "Damla Senturk", "Dan Yu Lin", "Dandan Liu", "Daniel Molefe",
 "David Pollard", "David V Glidden", "Deli Wang", "Dixin Zhang", "Do-Hwan Park",
 "Dong Chen", "Donglin Zeng", "Dongsheng Tu", "Efang Kong", "Eitan Greenshtein",
 "Eric Johnson", "F Ferraty", "Fang Yao", "Fengchang Lin", "Fengrong Wei",
 "Flavio Ziegelmann", "Fuqing Gao", "Fushing Hsieh", "Gauri Sankar Datta",
 "Guohua Zou", "Guosheng Yin", "Guoying Li", "Gustavo Didier", "Haibo Zhou",
 "Hans-Georg Muller", "Harrison H Zhou", "Heng Peng", "Hong-Bin Fang", "Hong Ooi",
 "Hong Zhang", "Hongqi Xue", "Hongyu Miao", "Hongyu Zhao", "Hongzhe Li",
 "Howell Tong", "Hua-Hua Chang", "Huazhen Lin", "Hugh Miller", "Hui Li",
 "Huiliang Xie", "Hulin Wu", "I Fernandez-Val", "Ibrahim Ahmad", "Ilya Molchanov",
 "J-H Jeong", "J T Gene Hwang", "James X Hu", "Jane-Ling Wang", "Jason P Fine",
 "Jean Jacob", "Jeff Racine", "Jelena Bradic", "Jialiang Li", "Jian Huang",
 "Jian Zou", "Jiancheng Jiang", "Jianguo Sun", "Jianqing Fan", "Jianwei Chen",
 "Jianwen Cai", "Jiashun Jin", "Jiazhu Pan", "Jichun Xie", "Jin-Ting Zhang",
 "Jinchi Lv", "Jinfeng Xu", "Jing Qiu", "Jingran Sun", "Jiying Yin",
 "Joel A Dubin", "Joel L Horowitz", "Julian Z Wang", "Jun Sheng", "Jun Yan",
 "Jyh-Shyang Wu", "K F Lam", "Kani Chen", "Ke Yu", "Kee-Hoon Kang", "Kehui Chen",
 "Kristine E Lee", "Kun Chen", "Kung-Sik Chan", "Kwang Woo Ahn", "L J Wei",
 "Lan Kong", "Lawrence D Brown", "Li-Shan Huang", "Li Chen", "Liang Peng",
 "Lie Wang", "Lincheng Zhao", "Liuquan Sun", "Lop-Hing Ho", "Lu-Hung Chen",
 "Mark A Weaver", "Mark G Low", "Meng Mao", "Michael C Minnotte", "Michael Kosoy",
 "Michael Levine", "Michael R Kosorok", "Michal Kulich", "Ming-Tien Tsai",
 "Ming-Yen Cheng", "Mingjin Wang", "Minjing Tao", "Mohammad Hosseini-Nasab",
 "Myung Hwan Seo", "N Balakrishnan", "Nader Ebrahimi", "Neil Bathia",
 "Nicolas Verzelen", "Nils Chr Stenseth", "Ning Hao", "Nivedita V Nadkarni",
 "Noelle I Samia", "P Vieu", "Pang Du", "Peihua Qiu", "Peter Hall",
 "Philip W Davidson", "Pranab K Sen", "Qi Li", "Qiwei Yao", "Ralph D Snyder",
 "Reza Pakyari", "Rob J Hyndman", "Robert L Winkler", "Ronald E Gangnon",

"Rong Tang", "Rui Song", "Ruoqing Zhu", "Ryan T Elmore", "S Kang", "S S J Wang",
"Sandy Clarke", "Shaojun Guo", "Shuangge Ma", "Sin-Ho Jung", "Sittisak Leelahanon",
"Sokbae Lee", "Spiridon Penev", "T Tony Cai", "Tao Huang", "Tao Lu", "Tao Yu",
"Thomas D Cook", "Tiefeng Jiang", "Tsz Ho Yim", "Tung Pham", "Ulrich Stadtmuller",
"Victor Chernozhukov", "Vladimir S Troynikov", "Weidong Liu", "Weiwei Wang",
"Wenbin Lu", "Wenguang Sun", "Wenhua Jiang", "Wenjing Yang", "Wenwen Tao",
"Wenyang Zhang", "X Jessie Jeng", "Xi Luo", "Xiao-Hua Zhou", "Xiaojing Wang",
"Xiaoping Xu", "Xin Qi", "Xin Tong", "Xingqiu Zhao", "Xingwei Tong", "Xinyu Zhang",
"Xinyuan Song", "Xueli Liu", "Yacine Ait-Sahalia", "Yair Goldberg", "Yan Sun",
"Yanan Fan", "Yang Feng", "Yao-Ban Chan", "Yazhen Wang", "Yi-Kuan Tseng",
"Yi Chai", "Yichao Wu", "Ying Bai", "Yingcun Xia", "Yingqi Zhao",
"Yingying Fan", "Yingying Li", "Yong Zhou", "Yongcheng Qi", "You-Jun Yang",
"Youngki Shin", "Yu Cheng", "Yuan Jiang", "Yuanyuan Lin", "Yue S Niu",
"Yuh-Shan Jou", "Yuhyun Park", "Zhengyan Lin", "Zhezhen Jin", "Zhi Wei",
"Zhigang Zhang", "Zhigen Zhao", "Zhiliang Ying", "Zhiyi Zhang", "Zongwu Cai"}
"Top" 2 authors in Group 2
{ "Jianqing Fan", "Peter Hall"}

Group 3

```
{"A Mallik", "Adam J Rothman", "Adi F Gazdar", "Ali Ekici", "Ali Shojaie",
"Armin Schwartzman", "B Sigal", "Benjamin Yakir", "Benoit R Masse",
"Bohdhisattva Sen", "BOWEI XI", "Bradley Efron", "Bryan E Shepherd",
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"Top" 2 authors in Group 3

```
{"Robert J Tibshirani", "Ji Zhu"}
```

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{"A D Tsodikov", "Amgen Research Group", "Ananya Roy", "Andrei Y Yakovlev",
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"Top" 2 authors in Group 4

```
{"Hongtu Zhu", "Joseph G Ibrahim"}
```

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{"Abdus S Wahed", "Adarsh Joshi", "Anastasios A Tsiatis", "Andrew S Allen",
"Biao Zhang", "Bob Zhong", "Boris Buchmann", "Brett Presnell",
"C Hendricks Brown", "C S Wong", "Chen-Pin Wang", "Cheng Yong Tang",
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"Seunggeun Lee", "Shein-Chung Chow", "Shiqing Ling", "Siu Hung Cheung",
"Somnath Datta", "Song Xi Chen", "Steven J Novick", "Tigran Markaryan",
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"Weihua Cao", "Weixing Song", "Wentao Feng", "William F Rosenberger",
"Wing K Fung", "Xianzheng Huang", "Xiaomin Lu", "Xingdong Feng", "Xinxin Yu",
"Xuming He", "Yevgen Tymofyeyev", "Yijun Zuo", "Ying-Li Qin", "Yonghee Lee",
"Yu Shen", "Yujun Wu", "Yunming Mu", "Yunwen Yang", "Zhongyi Zhu"}
```

"Top" 2 authors in Group 5

```
{"Song Xi Chen", "Xuming He"}
```

Group 6

```
{"A Guillin", "Alejandro Cruz-Marcelo", "Antoine Chambaz", "Barry M Lesht",
"Billy Amzal", "Brunero Liseo", "Bruno Sanso", "C Levy-Leduc",
"Christian P Robert", "Christopher A Bush", "Christopher Morrell", "Chun-Lung Su",
"Chunjie Wu", "D M Titterington", "Daniel Zantedeschi", "David B Matchar",
"David J Schwab", "David M Higdon", "Dmitry Beletsky", "Donatello Telesca",
"E Moulines", "Edwin S Iversen Jr", "eric Moulines", "Eric Moulines",
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"J-M Marin", "J M Quashnock", "Jean-Marie Cornuet", "Jean-Michel Marin",
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"Jonathan R Stroud", "Jonathan Weinberg", "Judith Rousseau", "Juhee Lee",
"Katherine B Ensor", "Kerrie Mengersen", "Leah J Welty", "Lionel Cucala",
"Lorenzo Trippa", "Lurdes Y T Inoue", "M S Taqqu", "Maria De Iorio",
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"Top" 2 authors in Group 6

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{"Christian P Robert", "Peter Muller"}
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Group 7

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{"A C Davison", "Abbas Khalili", "Alessandro Tarozzi", "Annie Qu",
"B L De Stavola", "Baojiang Chen", "Bin Zhu", "Bruce G Lindsay", "C Semadeni",
"Catherine Loader", "Chang Xuan Mao", "Changbao Wu", "Christiana Kartsonaki",
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"Top" 2 authors in Group 7

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"Top" 2 authors in Group 10

```
{"Alan E Gelfand", "David Dunson"}
```

Group 11

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{"Aad van der Vaart", "Agus Sudjianto", "Aijun Zhang", "Alfredo Navarro",
"Angela M Dean", "Anindya Roy", "Barry Falk", "Ben Haaland", "Boxin Tang",
"C Devon Lin", "C F Jeff Wu", "Catherine A Calder", "Cheng Zhu",
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```

"Top" 2 authors in Group 11

```
{"V Roshan Joseph", "C F Jeff Wu"}
```

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```
{"A Philip Dawid", "Adrian E Raftery", "Angela Kempe", "Arseni Seregin",
"Axel Munk", "Birgit I Witte", "Brad McNeney", "Cristina Butucea",
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"William Kleiber", "Yoonkyung Lee", "Yulia R Gel", "Yuwon Kim"}
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"Top" 2 authors in Group 12

```
{"Axel Munk", "Tilmann Gneiting"}
```

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{"Alfred Kume", "Andrew B Nobel", "Andrew T A Wood", "Barbara Klein",
"Byron Ellis", "Charles J Geyer", "Cheolwoo Park", "Christopher G Small",
"Chun-Shu Chen", "Dan J Spitzner", "David Neil Hayes", "Ehab F Abd-Elfattah",
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"J S Marron", "Jeongyoun Ahn", "Jimmy Ye", "Jo Eidsvik", "Junhui Wang",
"Keith M Muller", "Kim Kenobi", "Li Ma", "Lifeng Wang", "Martin Hendry",
"Meta Voelker", "Michael Ferris", "Michael H Albert", "Michael J Todd",
"Perla E Reyes", "Phillip L Chapman", "Qing Zhou", "Robert B Scharpf",
"Robert L Paige", "Ronald Klein", "Ronald W Butler", "Ruth G Shaw",
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"Youjuan Li", "Yueh-Yun Chi", "Yufeng Liu", "Yun Ju Sung", "Yunzhang Zhu"}
```

"Top" 2 authors in Group 13

```
{"Hao Helen Zhang", "J S Marron"}
```

Group 14

```
{"Alekh Agarwal", "Alessandro Rinaldo", "Amy J Braverman", "Ann B Lee",
"Arash A Amini", "B Devlin", "Bin Yu", "Christopher Genovese", "David M Blei",
"Donald Geman", "elodie Nedelec", "Etienne Roquain", "Eugene E Clothiaux",
"Fanny Villers", "Francesco Audrino", "Francis R Bach", "Gilles Blanchard",
"Guilherme Rocha", "Guillaume Lecue", "Guillaume Obozinski", "Han Liu",
"Isabella Verdinelli", "John D Lafferty", "John Rice", "Jon D McAuliffe",
"Joseph Neeman", "Jung-Ying Tzeng", "Junzhou Huang", "Karl Rohe",
"Kathryn Roeder", "Kenji Fukumizu", "Larry Wasserman", "Lukas Meier",
"M Perone Pacifico", "Marco Perone-Pacifico", "Markus Kalisch",
"Marloes H Maathuis", "Martin J Wainwright", "Matthew J Beal", "Michael Braun",
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"Nicoleta Serban", "Olivier Bousquet", "Pascal Massart", "Peng Zhao",
"Peter Buhlmann", "Peter L Bartlett", "Pradeep Ravikumar", "Richard Scheines",
"Sahand Negahban", "Shahar Mendelson", "Shuheng Zhou", "Sourav Chatterjee",
"Stephen E Feinberg", "Sylvain Arlot", "Tao Shi", "Tong Zhang", "Tracy L Nolen",
"Ulrike von Luxburg", "William Byerley", "XuanLong Nguyen", "Yee Whye Teh"}
```

"Top" 2 authors in Group 14

```
{"Bin Yu", "Larry Wasserman"}
```

Group 15

```
{"Aleksey Min", "Andrea Hennerfeind", "Andreas Brezger", "Anthony Y C Kuk",
"Armelle Guillou", "Beth Andrews", "C C Tan", "C M Jack Wang", "Cari G Kaufman",
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"Douglas W Nychka", "F Jay Breidt", "Frederick Wong", "Gabriel A Rodriguez-Yam",
"Gaurav Sharma", "Giorgio E Montanari", "Goran Kauermann", "Gretchen G Moisen",
"Hari K Iyer", "J R Lockwood", "Jan Hannig", "Jean D Opsomer", "Jean Diebolt",
"Jianqiang C Wang", "Lidong E", "Ludwig Fahrmeir", "M Giovanna Ranalli",
"Mark J Schervish", "Matthew Calder", "Michael K Pitt", "Michael S Smith",
"Mikeyoung Jun", "Mitchell J Small", "Mohamad A Khaled", "Nan-Jung Hsu",
"Patrick L Gurian", "Paul Patterson", "Philippe Naveau", "Remy Cottet",
"Reto Knutti", "Richard A Davis", "Robert J Kohn", "Rongning Wu",
"Sarah B Streett", "Stephen Ogle", "Tatyana Krivobokova", "Thomas C M Lee",
"Thomas Mathew", "Timothy G F Kittel", "William T M Dunsmuir"}
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```
{"F Jay Breidt", "Douglas W Nychka"}
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Group 16

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"Anatoli B Juditsky", "Andrada E Ivanescu", "Angelika Rohde", "Anil Aswani",
"Arkadi S Nemirovski", "Arleta Szkola", "Arnak Dalalyan", "Arnaud Gloter",
"Art B Owen", "Assaf Zeevi", "Claire Tomlin", "David M Mason", "Dmitry Panchenko",
"Emmanuel Gobet", "Evarist Gine", "Florentina Bunea", "Gabor Lugosi",
"Georgi K Golubev", "I Dattner", "Jean-Yves Audibert", "Jin Cao", "Josef Dick",
"Karim Lounici", "Larry Shepp", "Louigi Addario-Berry", "Luc Devroye",
"Lyudmila Sakhanenko", "Marc Hoffmann", "Markus Reiss", "Marten H Wegkamp",
"Massimiliano Pontil", "Mathieu Rosenbaum", "Michael Nussbaum",
"Nicolas Broutin", "Nicolas Vayatis", "Oleg V Lepski", "Olivier Catoni",
"Peter J Bickel", "Philippe Rigollet", "Richard Nickl", "Ruixue Liu",
"S Chen", "Songhe Cai", "Stephan Clemenccon", "Thomas M Stoker", "Tuan Nguyen",
"Uwe Einmahl", "Vladimir Koltchinskii", "Yaakov Ritov", "Yiyuan She"}
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"Top" 2 authors in Group 16

```
{"Peter J Bickel", "Alexandre B Tsybakov"}
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Group 17

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"Dawei Xie", "Diane M Makuc", "Donna Neuberg", "Douglas N Midthune",
"Eric J Feuer", "Gong Tang", "Guangyu Zhang", "Ivan Jeliazkov", "Jerome P Reiter",
"Jorg Drechsler", "Jyoti Zalkikar", "Kaushik Ghosh", "Kevin W Dodd",
"Lan Huang", "Limin X Clegg", "M Anthony Schork", "Martin Kulldorff",
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 "Siegfried Hormann", "Sonja Greven", "Stephen M S Lee", "Thomas J DiCiccio",
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"J Palomo", "James G Scott", "James O Berger", "Jerry Sacks", "Jian Tu",
"John A Cafeo", "Jose M Bernardo", "Joyee Ghosh", "Kesar Singh",
"Luis R Pericchi", "M J Bayarri", "Marc C Kennedy", "Maria Maddalena Barbieri",
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"Malgorzata Bogdan", "Matias Salibian-Barrera", "Nora Muler",
"Pedro Cesalvarez-Esteban", "Pedro Galeano", "Ruben H Zamar", "Ruey S Tsay",
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"Elizabeth A Stuart", "Fabrizia Mealli", "Fan Li", "Hui Jin", "Jennifer L Hill",
"John Barnard", "Junni L Zhang", "Kari Lock Morgan", "Lan Zhang",
"Mahboobeh Safaeian", "Ming Lin", "Ming T Lin", "Per Aslak Mykland",
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"F Javier Giron", "George Casella", "James G Booth", "James P Hobert",
"Jeff Gill", "Juanjuan Fan", "M Lina Martinez", "Mark C K Yang", "Martha E Nunn",
"Michael LeBlanc", "Minjung Kyung", "Morris L Eaton", "Richard A Levine",
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Group 30

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"E R Williams", "Gang Li", "J Kunert", "John Stufken", "Kefei Zhou",
"Min Yang", "P Druilhet", "R A Bailey", "Robert M Elashoff",
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 "Mark J van der Laan", "Mark van der Laan", "Nicholas P Jewell", "Pei Fen Kuan",
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Group 32

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 "Joseph B Kadane", "Juhyun Park", "M Studer", "Nicole A Lazar",
 "Peter Boatwright", "S Conti", "Sharad Borle", "Theo Gasser"}
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 "Jose T A S Ferreira", "M Blanca Palacios", "Marco A R Ferreira",
 "Mark F J Steel", "Scott H Holan", "Thais C O Fonseca"}
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 "Linda H Zhao", "Lisha Chen", "Mechelle Lewis", "Noah Gans", "Seonjoo Lee",
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 "Peng Ding", "Wei Yan", "Xianchao Xie", "Zhi Geng", "Zhihong Cai", "Zongming Ma"}
"Top" 2 authors in Group 35
 {"Wei Yan", "Zhi Geng"}
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Group 36

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{"Aiyi Liu", "Chunling Liu", "Kai F Yu", "Kai UNKNOWN Yu",
 "Lori E Dodd", "Paul S Albert", "Qizhai Li", "Zhiwei Zhang"}
"Top" 2 authors in Group 36
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```
{"Aiyi Liu", "Chunling Liu"}
```

Group 37

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"James O Ramsay", "Jiguo Cao", "Michal Benko", "Pascal Sarda"}
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"Top" 2 authors in Group 37

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Group 38

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"Top" 2 authors in Group 38

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Group 39

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{"Camelia S Sima", "Douglas E Schaubel", "Friedrich K Port",
"Robert A Wolfe", "Robert M Merion", "Shibao Feng"}
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"Top" 2 authors in Group 39

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{"Douglas E Schaubel", "Robert A Wolfe"}
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Group 40

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"Shanshan Wang", "Wolfgang S Jank", "Yufeng Tu"}
```

"Top" 2 authors in Group 40

```
{"Shanshan Wang", "Wolfgang S Jank"}
```

```
data1 = "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdj.txt";
data2 = "./Documents/data_analysis/Jiashun/coauthorship/coauthorAdjGiant.txt";
data3 =
```

```

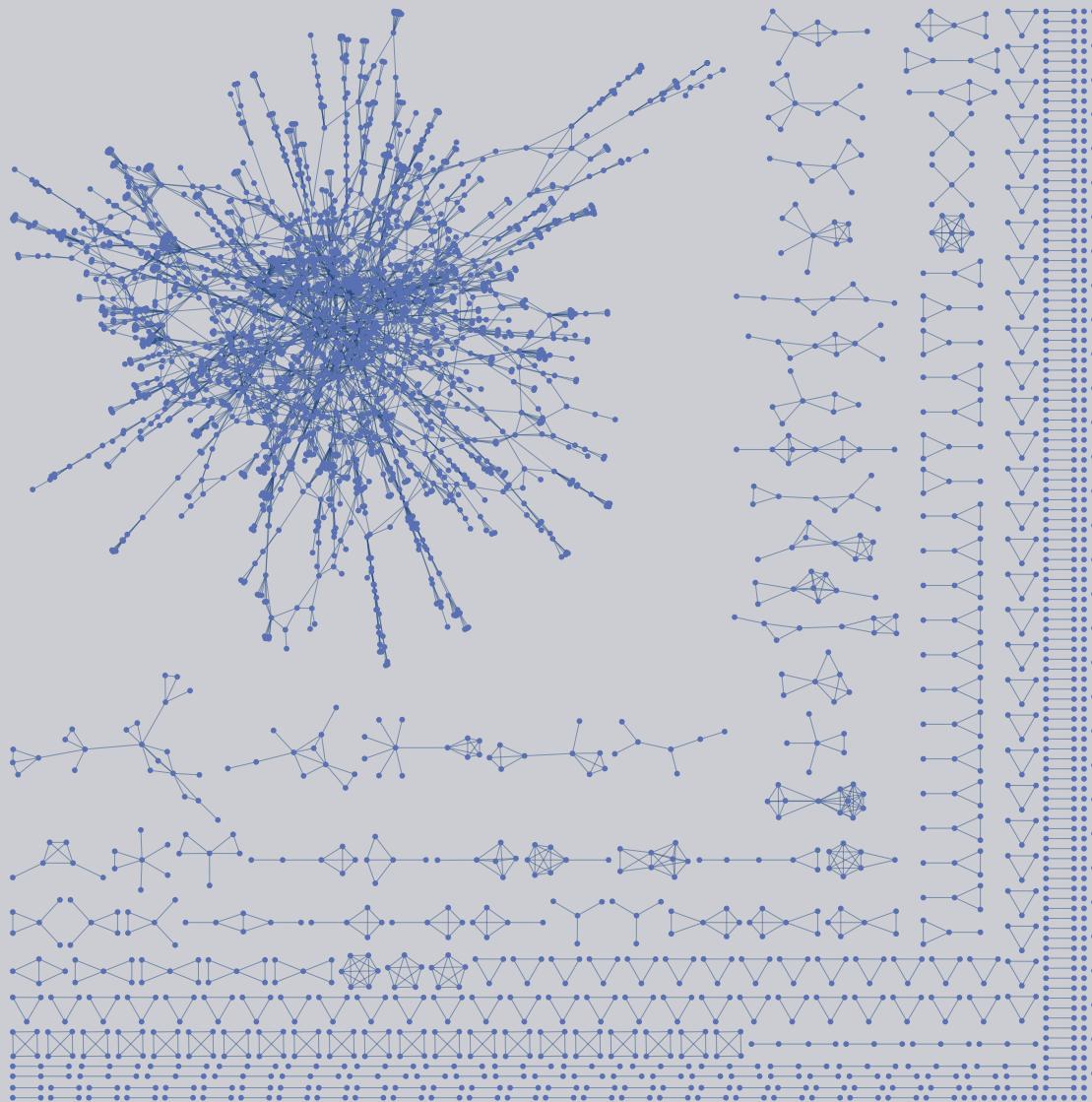
"./Documents/data_analysis/Jiashun/coauthorship/coauthorAdjThreshGiant.txt";
names2 =
"./Documents/data_analysis/Jiashun/coauthorship/authorListCoauthorGiant.txt";
names3 =
"./Documents/data_analysis/Jiashun/coauthorship/authorListCoauthorThreshGiant.
txt";
data = data1;
(*names=names3;*)
Style["The data used is " <> data, Blue, Large]
adjMatrix = ReadList[data, Number, RecordLists → True];
(*nameList=ReadList[names, String];*)
(*Dimensions[adjMatrix]
Dimensions[nameList]
adjMatrix[[1]]*)
Style["Here are adjacency graph without numbers,
with numbers (*and with names,*) respectively", Blue, Large]
adjGraphPoint = AdjacencyGraph[adjMatrix]
adjGraphNumber = AdjacencyGraph[adjMatrix, VertexLabels → "Name"]
(*adjGraphName=AdjacencyGraph[adjMatrix,
VertexLabels→Table[i→nameList[[i]},{i,1,Length[nameList]}]]*)
adjGraph = adjGraphNumber;
(*Style["\"Top\" 10 authors (from less to greater) are: ", Blue, Large]
degree=DegreeCentrality[adjGraph];
(*Sort[degree]*)
(* top n, from less to greater *)
Ordering[degree,-10];
nameList[[%]]*)
groups = FindGraphCommunities[adjGraph];
(*Dimensions[groups]*)
Style["Cluster all authors into groups based on connectivity ", Blue, Large]
HighlightGraph[adjGraph, Subgraph[adjGraph, #] & /@ groups]
CommunityGraphPlot[adjGraph, groups]
(*Table[
Print@Style["Group "<>ToString[j],Magenta,Large];
Print[nameList[[groups[[j]]]]];
Print[Style["\"Top\" 2 authors in Group "<>ToString[j],Orange,Medium]];
degreej=degree[[groups[[j]]]];
groupTopIndex=Ordering[degreej,-2];
groupTop=groups[[j]][[groupTopIndex]];
Print[nameList[[groupTop]]];
{j,1,Length[groups]}];*)

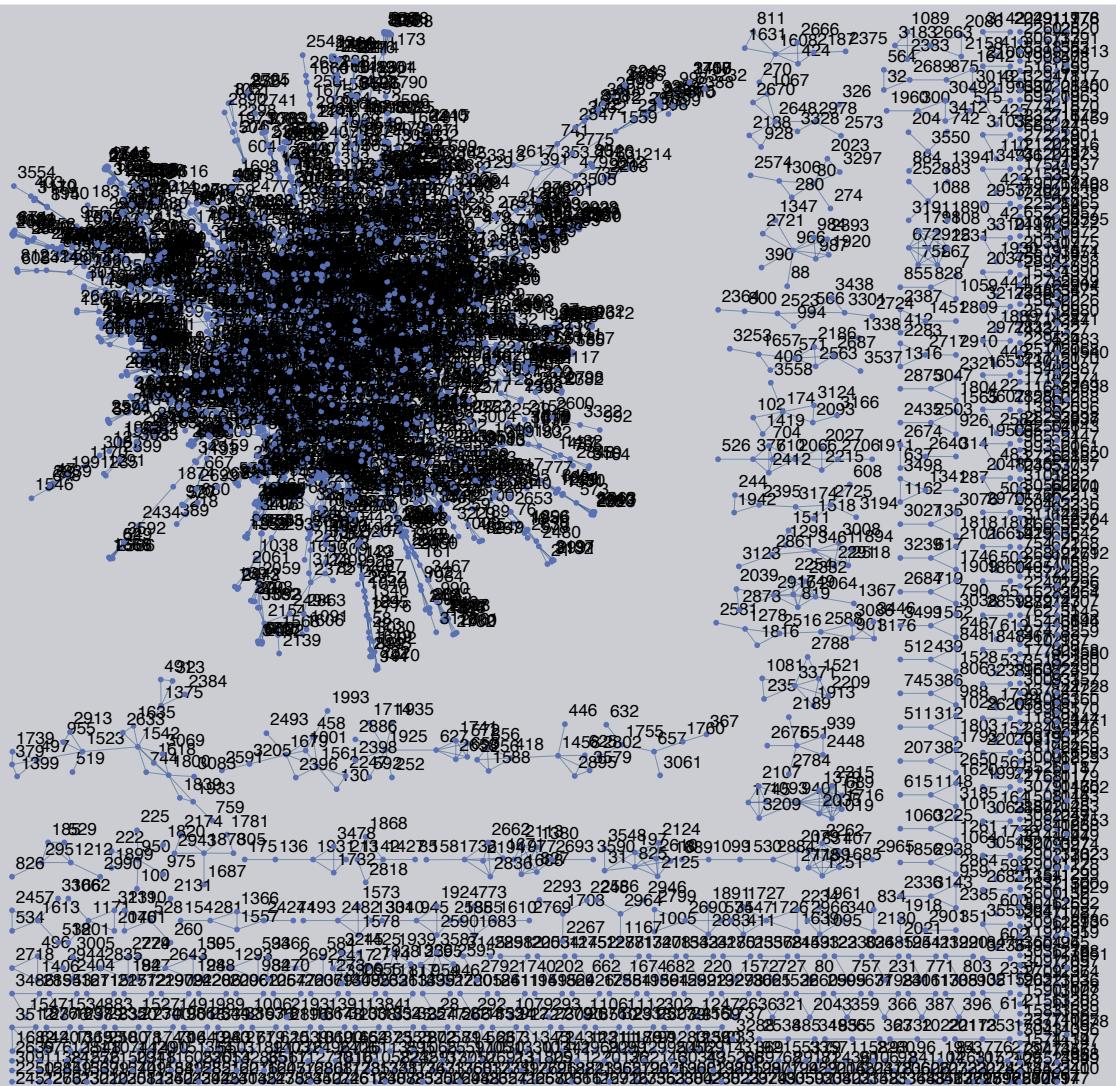
```

The data used is

`./Documents/data_analysis/Jiashun/
coauthorship/coauthorAdj.txt`

Here are adjacency graph
without numbers, with numbers
(*and with names,*) respectively





Cluster all authors into groups based on connectivity



