# SAMPLE LAYOUT CO-AUTHORS APP

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# Co-Authors Graph

- This graph was developed by me using cytoscape 3 and a small command line program written by me in JAVA

- This program called GetCoAuthors takes an author's name as input

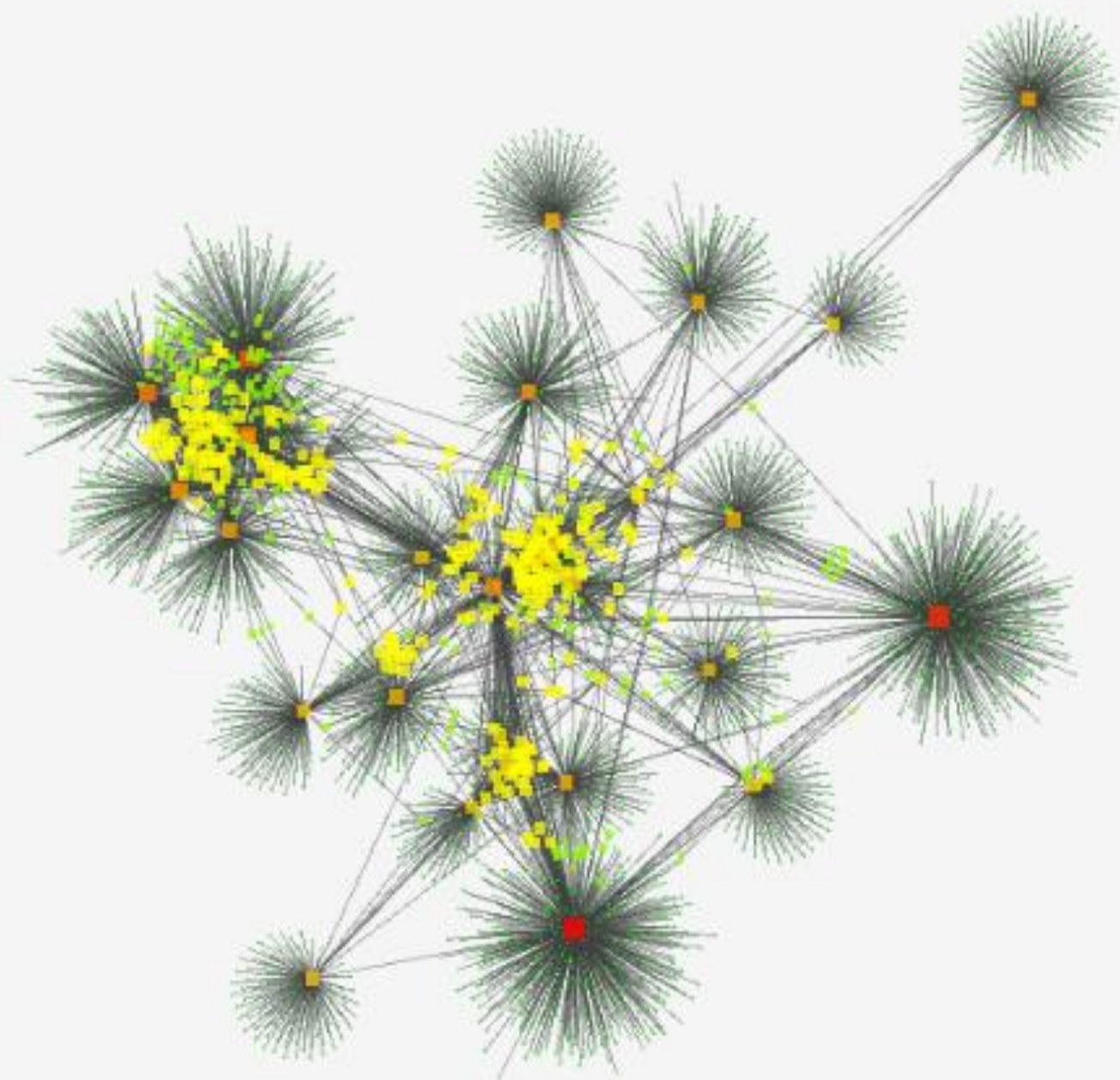- Then it queries Pubmed and finds all its co-authors in first 20 publications

# Co-Authors Graph

- Last step is repeated for all the co-authors of the author whose name was given by the user as input
- All the results are stored in SIF format in a file named authors1.sif

# Legend

- ❑ Nodes – Author's Name
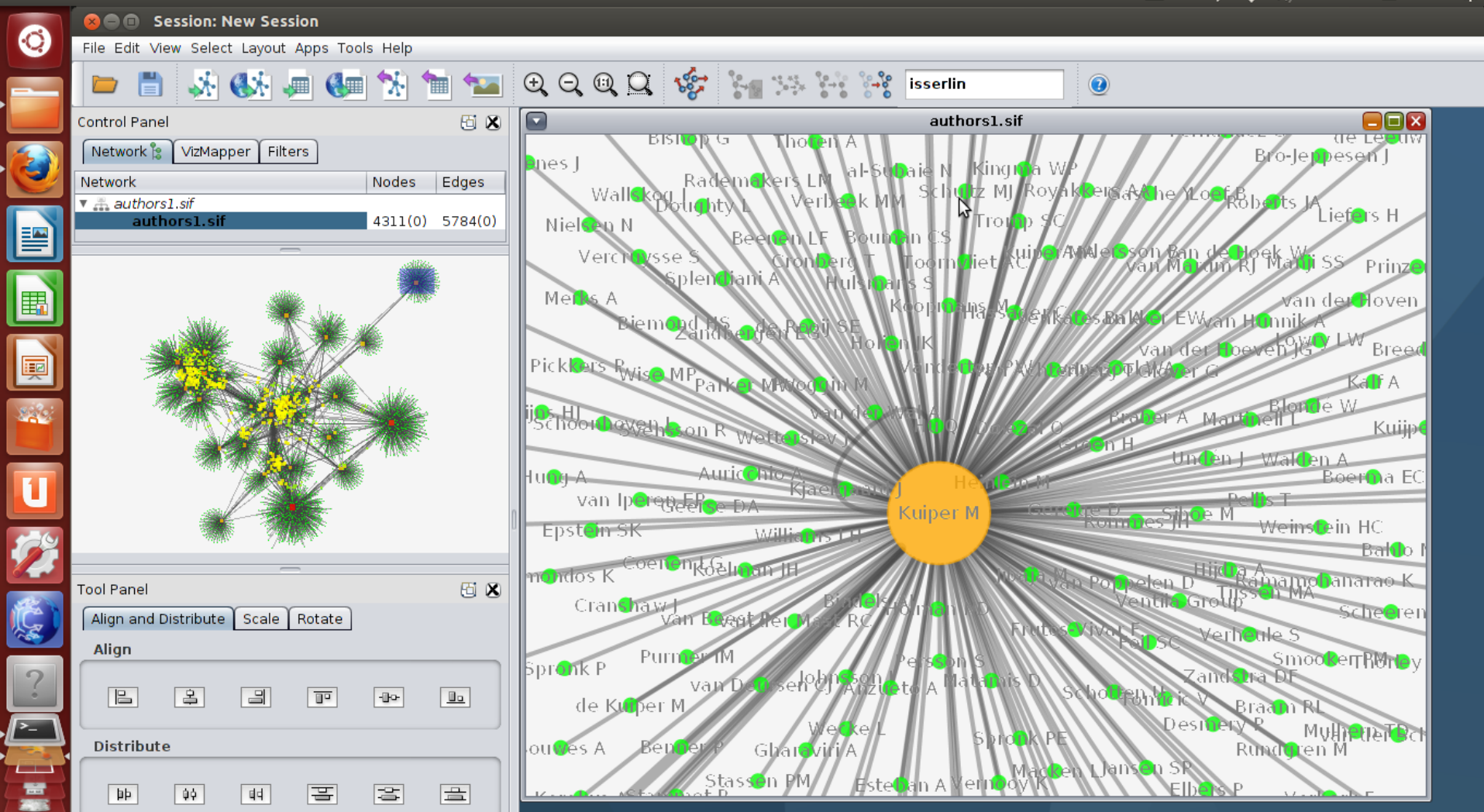
- ❑ Node Size – Number of Co-Authors

- ❑ Node Color – Degree(Low values to bright colors)

- ❑ Edge – Signifies that they published together

(Graph on next slide…)

- These graphs can be used to cluster data that is related to each other

- For eg – On Zooming in on a portion of this graph we can find people that are working together with one person as center (image on next slide)

2:56 AM  Rohan

Session: New Session

File  Edit  View  Select  Layout  Apps  Tools  Help

isserlin

Control Panel

Network | VizMapper | Filters

| Network | Nodes | Edges |
|---|---|---|
| ▼ authors1.sif | | |
| authors1.sif | 4311(0) | 5784(0) |

Tool Panel

Align and Distribute | Scale | Rotate

**Align**

**Distribute**

authors1.sif

Bishop G      Thoten A                                de Leeuw
anes J                                      Bro-Jeppesen J
              Rademakers LM  al-Sobaie N  Kingma WP
     Wallskog L  Doughty L   Verbeek MM  Schultz MJ Royakkers AA he  Loef B  Roberts JA
Nielsen N                                              Liefers H
     Vercruysse S   Beeren LF  Bouman CS  Kuiper A Wolterson an der Hoek W.
              Cronberg T  Toornvliet AC         van Maanen RJ Marti SS  Prinze
        Splendiani A   Hulsmans S
                      Koopmans          Kates Bakker EW van Hunnik A  van der Hoven
        Diemond MS  de Rooij SE  Horien K                      Lowy LW  Breed
        Zandbergen          Vanderpluym PW                   Kalf A
     Picklers R  Wise MP  Parker M  togdon M                   Blonde W
                                                  Prober A  Martinell L
  jjs HJ  Schoonhoven      Swenson R  Wettstein J           Green H  Kuijpe
     Hung A   Auricchio A  Kjaersma J  Heutten M       Sinoe M
          van Iperen FP  Geerse DA  Kuiper M  Siboe M  Unden J  Walden A
     Epstein SK         Williams LH                        Weinstein HC
                Coenent G                                  Baldo M
  mondos K   Koelman JH                            Hidde Ramamohanarao K
     Cranshaw J  van Bavel Ten Haaf RC          Tijssen MA
              Johnsson   Persson S   Matanis D  Schoften
     Spronk P  Purmer IM       Abzieto A         Braam RL
  de Kuiper M   van Diessen CJ                   Fotinic V  Desmery F
                                Wecke L         Smooker  Murley
  ouwes A  Benner P  Gharaviri A      Spronk PE   Rundgren M
          Stassen PM   Esteban A Verhooy K   Macken L Jansen SR  Elbers P

- We can easily find how one author is related to other

- For eg – On selecting node representing author Isserlin R, all the co-authors are shown by yellow color(connection represented by red colored edges)
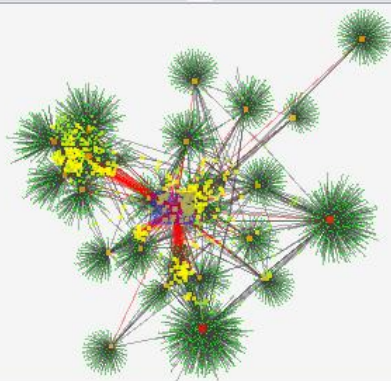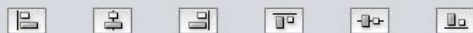
- Image on next slide…
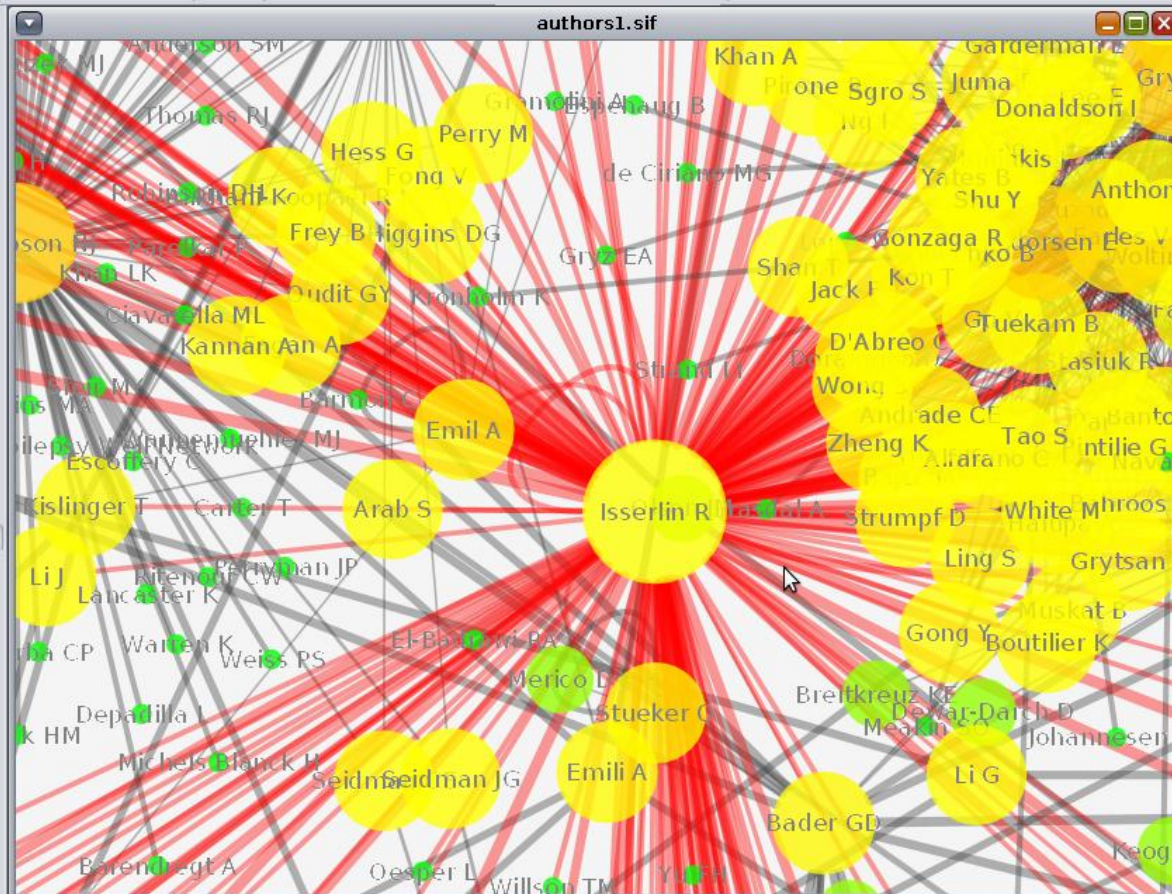
- Important people in a particular study(or group) can be easily recognised

- For eg – Red color nodes represent authors that are most connected to the other authors(image on next slide…)

# Thank You