Social network analysis of discussion forum data

WANG Hao
• Forum Data
• Clustering Structure
• Topic Modeling
• Conclusion
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An Introduction to Science and Technology Studies, by Sergio Sismondo

Wondering if there’s an accessible copy of Sismondo within Coursera? Don’t particularly want to buy the whole book just in order to read p.1-11 next week. Did a google search, found several places that would let you read the latter part for free but version?

I agree. We may need some people with Academic reach to these documents.

Yeah, other courses will provide **open online resources** even it’s optional readings. Until instructors will provide it until the formal opening of the course. I think **course staffs**

It is not usual practice on these courses to require reading of text which are not publicly, for even learned papers are usually to be found behind a paywall and are out of reach of the bulk.

If the text is not accessible, the bulk of students will be unable to complete the reading ass

I won’t be able to buy this book before the course starts. Could someone scan those 11 pages a

Hello!
What about that?
Tree view

Course

Forum 1

Thread 1
Post 1

Thread 2
Post 2

Forum 2

Thread 3
Post 3
Comment 1
Comment 2
• Forum Data
• Clustering Structure
• Topic Modeling
• Conclusion
<table>
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Social networks and clustering-stschina1
Social networks and clustering - stschina1
Social networks and clustering-stschina1
Social networks and clustering-stschina1
Social networks and clustering-stschina1
What clusters might mean

Forum distribution
What clusters might mean

User type – cluster 1

Passionate, outgoing, helpful
sometimes talking about serious questions

User 80e5db41946a6463192efc416acdddb63bc450480

Post 516: As a scientist, don't you think ......
Post 402: I am taking this course because ......
Post 404: Jos Muyres found a download on the Wiley site.
    The address is ......
Post 407: Hi Everyone. &nbsp;My name is Barbara ......
What clusters might mean

User type – cluster 2

Less outgoing, Almost always talking about serious questions

User 7643d42794487a9214c9a1e206ea7076bad0ab31

Post 1465: Innovation being the practice of ......
Post 1688: Many/most modern products require ......
Thread 77: The idea that the world was ......
Thread 80: I have a major concern with ......
What clusters might mean

User type – cluster 3

Passionate, not very helpful, hardly talking about something productive

User 95424a76f82f273fc03f5fb587ebc4de3f1357c8

Post 34: Hello! I am Chamath. I am in St. Paul ......
Post 47: Hi Andy. I'm Chamath in St. Paul ......
Post 822: Thanks Linda, for the instructions and the ......
Post 1222: How do I join the group ......
What clusters might mean

User type – cluster 4

Passionate, not very helpful, **hardly** talking about serious stuff **sometimes** talking about things that are non-lecture-related but interesting

User 3c224926ee2ec05205f3c21ba2914f787e5bfa03

Post 44: I am Julia from near Leeds in the UK ......

User 3c224926ee2ec05205f3c21ba2914f787e5bfa03

Post 107: what does the tag say in countries where English is not spoken?

Post 121: Good to learn from a professor who works there.
Other datasets – newchinahistory1
Other datasets – newchinahistory1
Other datasets – newchinahistory1
Other datasets – newchinahistory1
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• Forum Data
• Clustering Structure
• Topic Modeling
• Conclusion
Topic modeling

Latent Dirichlet Allocation

VS

Bag of Words
LDA
LDA for gastsci
LDA for gastsci

'cook' 'cours' 'scienc' 'food' 'learn' 'love' 'new' 'recip' 'interest'
'cook' 'cours' 'scienc' 'food' 'learn' 'love' 'new' 'recip' 'interest'
'chocol' 'assign' 'would' 'time' 'wine' 'tongu' 'meal' 'question' 'experi'
'food' 'color' 'like' 'think' 'green' 'sweet' 'red' 'fruit' 'sour'
'food' 'color' 'like' 'think' 'green' 'sweet' 'red' 'fruit' 'sour'
'dish' 'add' 'meat' 'use' 'salt' 'cook' 'oil' 'sauc' 'fri'
'dish' 'add' 'meat' 'use' 'salt' 'cook' 'oil' 'sauc' 'fri'
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LDA for stschina1
LDA for stschina1

'assign' 'grade' 'peer' 'cours' 'essay' 'request' 'regrad' 'evalu' 'word'
'assign' 'grade' 'peer' 'cours' 'essay' 'request' 'regrad' 'evalu' 'word'
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'im' 'studie' 'cours' 'name' 'everyon' 'meet' 'chines' 'take' 'hope'
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'im' 'studie' 'cours' 'name' 'everyon' 'meet' 'chines' 'take' 'hope'
'innov' 'system' 'altern' 'model' 'approach' 'one' 'linear' 'technolog'
'advantag'
Componential Counting Grids

\[ \alpha \rightarrow \Theta \rightarrow T \]

\[ L_n \rightarrow k_n \rightarrow W_n \]

\[ \pi \rightarrow W_n = \text{‘Pizza’} \]

\[ \alpha \rightarrow \text{Window } W \]

\[ k_n = l_n + (0,3) \]

\[ Z = |\text{Vocabulary}| \]

\[ \Lambda^w_\theta \]

\[ U^w \]
CCG for gastsci : Week 2

soy  quantiti problembul chip
al  part li nose
33  humbl abusefor id

mushroom  yesterday dish ingredi
grow  made flavor potato
bread  sandwich onion husband

leav  made pepper cheats
mix  spice fresh combin
pie  slice cucumber corn

onion  salad tomato spici
garlic  rice sauc delici
oliv  ad green chile

con que por

burger  indian rhubarb
seed potato crust
add bean onion
CCG for gastsci: Week 3

less | eat | peopl | know
chocol | peopl | know | stuff
gummi | ever | tri | haven

cracker | good | meal | one
bear | piec | mayb | end
satieti | real | doesn | particip

sens | feel | ask | answer
mouth | good | full | question
affect | four | 10 | get
like | would | test | question
matter | guess | result | sure
abl | surpris | wasn | suppos
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would test question  got

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flavour respons would  red

sensit option think think

among string pair  mistak

tongu  certain colour green

map  come  thought blue

area  cocoa  gener yellow

anyth  english  orang  black

coffe away  purpl  white

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CCG for gastsci: Week 10

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CCG for stschina1:  
Week 5
CCG for stschina1: Week 6

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CCG for stschina1:
Week 8
### CCG for stschina1:

#### Week 9

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• Forum Data
• Clustering Structure
• Topic Modeling
• Conclusion
Possible future work

• post recommendation
• click trajectory
• social network
• peer grading
• click stream and forum
• assigning reviewers
• implicit social networks