

Complex Networks

Koutsoukis Nikolaos

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1 Exercise 1

The information about the Power-Law graphs came from here

1.1 Power-Law Graph for all information

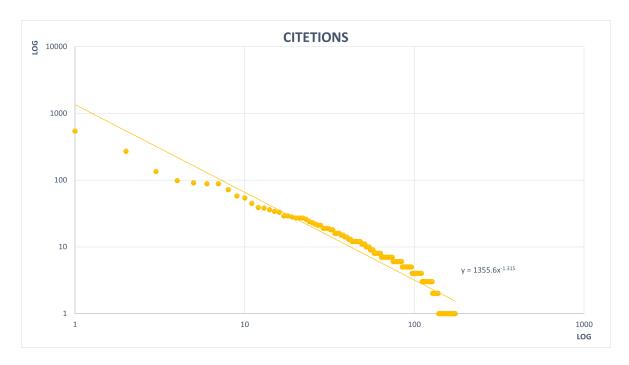


Figure 1: a = 1.315, c = 1355

1.2 Power-Law Graph for part of the information

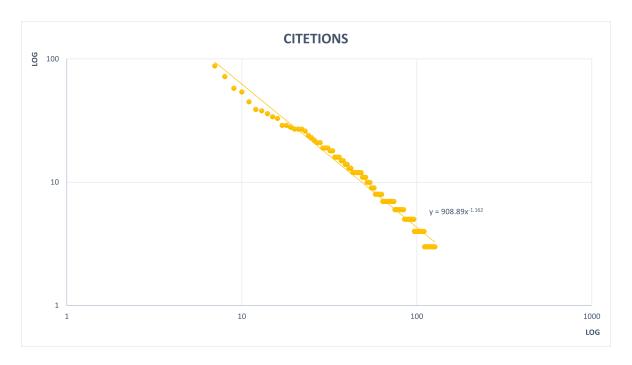


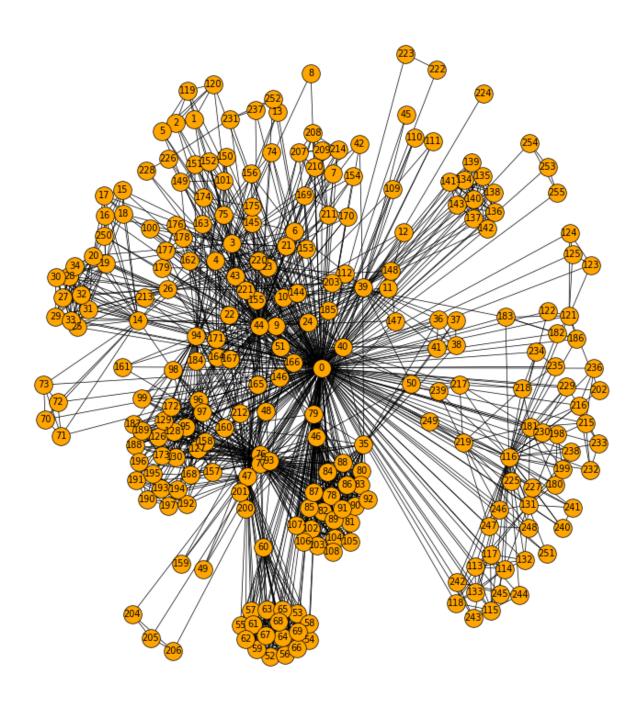
Figure 2: a = 1.162, c = 908.89

2 Exercise 2

2.1 Graph

The information about the graph came from here

Authors and Co-authors Graph

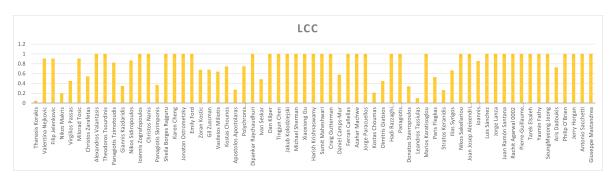


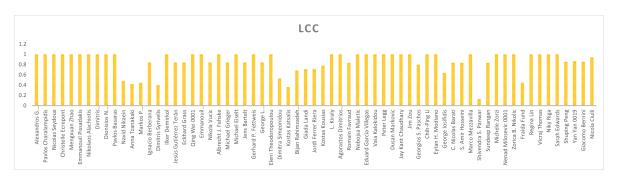
2.2 Node index and author's name

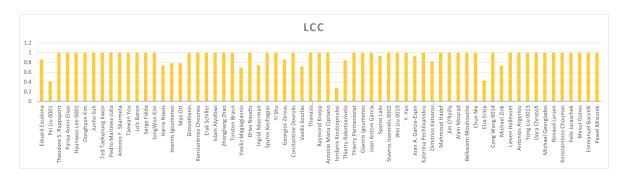
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1	Valentina Nejkovic	66	Pavlos Charalampidis	131	Pei Liu 0001	198	Francesco Verde
2	Filip Jelenkovic	67	Nicolas Seydoux	132	Theodore S. Rappaport	199	Anna Scaglione
3	Nikos Makris	68	Christelle Ecrepont	133	Parisa Amiri-Eliasi	200	George Parisis
4	Virgilios Passas	69	Mengxuan Zhao	134	Hyunwoo Lee 0001	201	Dirk Trossen
5	Milorad Tosic	70	Emmanouil Pissadakis	135	Donghyun Kim	202	Chen Dong
6	Christos Zarafetas	71	Nikolaos Alachiotis	136	Junho Suh	203	Maximilian Ott
	(TO CO. T. C.	72	Dimitris Theodoropoulos	137	Ted Taekyoung Kwon	204	Hongbin Li
7	Alexandros Valantasis	73	Dionisios N. Pnevmatikato	138	Pedro Martinez-Julia	205	Phuoc Tran-Gia
8	Theodoros Tsourdinis	74	Pavlos Basaras	139	Antonio F. Skarmeta	206	Hong-Shik Park
9	Panagiotis Tzimotoudis	75	Navid Nikaein	140	Taewan You	207	Giovanni Di Stasi
10	Giannis Kazdaridis	76	Anna Tzanakaki	141	Loic Baron		Company of the Compan
11	Nikos Sidiropoulos			142	Serge Fdida	208	Roberto Bifulco
12	Ioannis Zografopoulos	77	Markos P. Anastasopoulos	143	JongWon Kim	209	Stefano Avallone
13	Christos Nanis	78	Ignacio Berberana	144	Harris Niavis	210	Roberto Canonico
14	Panagiotis Skrimponis	79	Dimitris Syrivelis	145	Ioannis Igoumenos	211	Nikolaos Giallelis
15	Sheila Borges Rajguru	80	Ilker Demirkol	146	Max Ott	212	Adamantios Fiamegkos
16	Karen Cheng	81	Jesús Gutiérrez Terán	147	Dimosthenis Delimpasis	213	Georgios Kyriakou
	The state of the s	82	Eckhard Grass	148	Konstantinos Chounos	214	Francesco Paolo D'Elia
17	Jonatan Ostrometzky	83	Qing Wei 0001	149	- CONTRACTOR OF THE PROPERTY O	215	Özgü Alay
18	Emily Ford	84	Emmanouil Pateromichela	12701172	Eryk Schiller	216	Yao Wang 0001
19	Zoran Kostic	85	Nikola Vucic	150	Islam Alyafawi	217	Feilu Liu
20	Gil Zussman	86	Albrecht J. Fehske	151	Zhongliang Zhao	218	Jian Lin
21	Vasileios Miliotis	87	Michael Grieger	152	Torsten Braun	219	Zhifeng Tao
22	Kostas Chounos	88	Michael Eiselt	153	Vasilis Maglogiannis	220	Angelos-Christos G. Anadi
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26	Ivan Seskar	92	Eleni Theodoropoulou	158	Georgios Zervas	224	Sung-Ju Lee
27	Dan Kilper	93	Dimitra Simeonidou	159	Constantine Dovrolis	225	Michael E. Knox
28	Tingjun Chen	94	Kostas Katsalis	160	Vasilis Sourlas	226	George Athanasiou
29	Jakub Kolodziejski	95	Bijan Rahimzadeh Rofoee	161	Thanasis Papapioannou	227	Shashi Raj Singh
30	Michael Sherman	96	Giada Landi	162	Raymond Knopp	228	Özgür Erçetin
31	Xiaoxiong Gu	97	Jordi Ferrer Riera	163	Antonio Maria Cipriano	229	Ozgu Alay
32	Harish Krishnaswamy	98	Kostas Kousias	164	Iordanis Koutsopoulos	220	W 111
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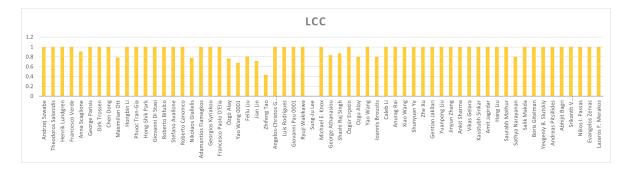
2.3 LCC

The Local Clustering Coefficient of each professor can be seen in the images below.









2.4 CC

The Clustering coefficient is equal to the average Local Clustering coefficient which is: CC = 0.88321.

2.5 Characteristic Path Length

The Characteristic Shortest Path of the graph is equal to 1.9483.