Supplementary Materials

1 Data

The 25 variables that were used in this analysis are below.

	es that were used in this and
Variable	Meaning
v1	Number of papers
v2	Total citations
v3	Production years
v4	Cites per year (?)
v5	Cites per paper (?)
v6	Cites per author (?)
v7	Papers per author (?)
v8	Authors per paper (?)
v9	h-index
v10	g-index
v11	hc-index
v12	hl-index
v13	hl-norm
v14	AWCR
v15	AW index
v16	AWCR per annum
v17	e-index
v18	hm-index
v19	Cites author per year (?)
v20	CitesAuthorYearArticle
v21	Annual hl
v22	h Coverage
v23	g Coverage
v24	Star count
v25	Adjusted star count

Table 1: List of attributes in the data

2 Regression Results

2.1 Analysis on the full data

The regression experiments for v4 are shown in Table 2. The chosen results are in bold.

IVs	Adj. R^2	Significant IVs
v6	0.759	All
v6,v9	0.796	All except constant
v6,v9,v10 (no const)	0.868	All
v6,v9,v10	0.835	All
v6,v9,v10,v11 (no const)	0.874	All
v6,v9,v10,v11	0.846	All
v6,v9,v10,v11,v13 (no const)	0.893	All
v6,v9,v10,v11,v13	0.866	All except constant
v6,v9,v10,v11,v13,v14 (no const)	0.896	All
v6,v9,v10,v11,v13,v14,v15 (no const)	0.896	All except v15
v6,v9,v10,v11,v13,v14,v16 (no const)	0.893	All except v16
v6,v9,v10,v11,v13,v14,v17 (no const)	0.912	All
v6,v9,v10,v11,v13,v14,v17,v19 (no const)	0.953	All except v10
v6,v9,v11,v13,v14,v17,v19 (no const)	0.961	All
v6,v9,v11,v13,v14,v17,v19,v24 (no const)	0.961	All
v6,v9,v11,v13,v14,v17,v19,v25 (no const)	0.953	All
v6,v9,v11,v13,v14,v17,v19,v24,v25 (no const)	0.972	All

Table 2: Regression experiments for v4 The chosen regression experiment is shown in Figure 1.

OLS Regression Results

Dep. Variabl	e:				v4	R-sa	uared:		0.97
Model:					OLS		R-squared:		0.97
Method:			Least	Sau			atistic:		2429
Date:			Tue, 20				(F-statistic)	:	0.0
Time:			,		6:28		Likelihood:		-2143.
No. Observat	ions:				618	AIC:			4304
Df Residuals	:				609	BIC:			4344
Df Model:					9				
Covariance T	ype:		r	onro	bust				
	=====	coef	std	err		t	P> t	[0.025	0.975
v6	-0.	0065	0.	002	-2	. 775	0.006	-0.011	-0.00
v9	2.	0218	0.	218	9.	. 275	0.000	1.594	2.45
v11	-0.	8051	0.	219	-3	669	0.000	-1.236	-0.37
v13	-3.	1005	0.	282	-10	. 993	0.000	-3.654	-2.54
v14	Θ.	0197	Θ.	007	2	.713	0.007	0.005	0.03
v17	Θ.	7742	0.	080	9	659	0.000	0.617	0.93
v19	1.	8746	0.	060	31	. 088	0.000	1.756	1.99
v24	11.	5548	0.	560	20	634	0.000	10.455	12.65
v25	-28.	5114	1.	771	-16	. 095	0.000	-31.990	-25.03
Omnibus:				470).481	Durb	in-Watson:		2.06
Prob(Omnibus):			0	.000	Jarq	ue-Bera (JB):		53677.04
Skew:				-2	.556		(JB):		0.0
Kurtosis:				48	3.370	Cond	. No.		3.20e+0

Figure 1: Regression results for v4 The regression experiments on v2 are shown in Table 3.

IVs	Adj. R^2	Significant IVs
v4	0.804	All
v4 (no const)	0.818	All
v4,v6	0.924	All
v4,v6 (no const)	0.93	All
v4,v6,v9	0.924	All except constant
v4,v6,v9 (no const)	0.93	All
v4,v6,v9,v10	0.925	All
v4,v6,v9,v10 (no const)	0.931	All except v9
v4,v6,v9,v10,v14	0.933	All
v4,v6,v9,v10,v14 (no const)	0.939	All
v4,v6,v9,v10,v14,v16	0.981	All except constant
v4,v6,v9,v10,v14,v16 (no const)	0.983	All
v4,v6,v9,v10,v14,v16,v18	0.981	All except constant and v18
v4,v6,v9,v10,v14,v16,v18 (no const)	0.983	All except v18
v4,v6,v9,v10,v14,v16,v18,v19	0.992	All
v4,v6,v9,v10,v14,v16,v18,v19 (no const)	0.993	All except v9
v4,v6,v9,v10,v14,v16,v18,v19,v24	0.992	All
v4,v6,v9,v10,v14,v16,v18,v19,v24 (no const)	0.993	All except v9

Table 3: Regression experiments for v2

The	chosen	regression	_	periment Results	is	show	n in	Figure	2
			91 63310						
Model: Method: Date: Time: No. Obs Df Resi Df Mode	servations: iduals:	Least Squa Tue, 20 Nov 2 19:16	DLS Ares F 918 P :31 L 518 A: 511 B: 7	squared: squared: statistic: ob (F-statis g-Likelihood CC:	stic):		0.993 0.993 1.255e+04 0.00 -3849.7 7713. 7744.		
	CO	ef std err		t P> t		[0.025	0.975]		
v4	17.98	65 0.539	33.3	0.000)	16.929	19.044		
v6	2.95	65 0.030	99.1	32 0.000)	2.898	3.015		
v10	-7.19	74 1.155	-6.2	30 0.000	9	-9.466	-4.929		
v14	2.89	90 0.172	16.8	92 0.000	9	2.562	3.236		
v16	-12.95	53 0.677	-19.1	37 0.006)	-14.285	-11.626		
v18	15.00	59 3.381	4.4	38 0.000	9	8.366	21.646		
v19	-40.47	89 1.372	-29.5	0.000	9	-43.174	-37.784		
Omnibus		183.		urbin-Watson:			1.853 13139.347		
Skew:	nnibus):	-0.:		arque-Bera (J rob(JB):) i		0.00		
Kurtosi	is:	25.		ond. No.			392.		

Figure 2: Regression results for v2

From v6 onward, the experiments were automated. The screenshots of the program results are shown instead. The regression experiments for v6 are shown in Figure 3.

Expt. No.	DV	IVs	Adj. R^2	Significant IVs
1	ν6	v9	0.724	All
2	v6	v9 (no const)	0.69	All
3	ν6	v9,v10	0.728	All
4	v6	v9,v10 (no const)	0.693	All
5	v6	v9,v10,v13	0.733	All
6	v6	v9,v10,v13 (no const)	0.692	v9,v10
7	ν6	v9,v10,v13,v14	0.795	All
8	ν6	v9,v10,v13,v14 (no const)	0.791	All
9	ν6	v9,v10,v13,v14,v16	0.875	constant,v9,v13,v14,v16
10	v6	v9,v10,v13,v14,v16 (no const)	0.883	v9,v13,v14,v16
11	ν6	v9,v10,v13,v14,v16,v17	0.875	constant,v9,v13,v14,v16
12	v6	v9,v10,v13,v14,v16,v17 (no const)	0.884	v9,v13,v14,v16
13	v6	v9,v10,v13,v14,v16,v17,v18	0.887	constant,v9,v13,v16,v17,v18
14	v6	v9,v10,v13,v14,v16,v17,v18 (no const)	0.893	v9,v13,v14,v16,v17,v18
15	ν6	v9,v10,v13,v14,v16,v17,v18,v19	0.907	constant,v9,v13,v16,v18,v19
16	v6	v9,v10,v13,v14,v16,v17,v18,v19 (no const)	0.913	v10,v13,v16,v17,v18,v19
17	ν6	v9,v10,v13,v14,v16,v17,v18,v19,v25	0.907	constant,v9,v13,v16,v18,v19,v25
18	ν6	v9,v10,v13,v14,v16,v17,v18,v19,v25 (no const)	0.914	v10,v13,v16,v17,v18,v19,v25

Figure 3: Regression experiments for v6 The chosen regression results are shown in Figure 4.

Dep. Variable:	v6	R-squared:	0.91
Model:	0LS	Adj. R-squared:	0.91
Method:	Least Squares	F-statistic:	1078
Date:	Tue, 20 Nov 2018	Prob (F-statistic):	1.73e-32
Time:	19:16:32	Log-Likelihood:	-4003.
No. Observations:	618	AIC:	8019
Df Residuals:	612	BIC:	8045
Df Model:	6		

OLS Regression Results

Covariance Type: nonrobust

covar Lan		, , , , , , , , , , , , , , , , , , ,				
	coef	std err	t	P> t	[0.025	0.975
v10	18.4844	2.768	6.677	0.000	13.048	23.92
v13	-74.8686	7.615	-9.832	0.000	-89.823	-59.91
v16	5.4741	0.490	11.176	0.000	4.512	6.43
v17	-11.7171	3.150	-3.720	0.000	-17.903	-5.53
v18	58.0314	7.318	7.930	0.000	43.659	72.40
v19	13.1330	1.058	12.413	0.000	11.055	15.21

Omnibus: 613.817 Durbin-Watson: 1.640 Jarque-Bera (JB): 84084.932 Prob(Omnibus): 0.000 Skew: 3.994 Prob(JB): 0.00 Kurtosis: 59.583 Cond. No. 86.2

Figure 4: Regression results for v6

Figure 5 shows the regression experiments for v9.

Significant IVs	Adj. R^2	IVs	DV	Expt. No.
All	0.94	v10	v9	1
All	0.966	v10 (no const)	v9	2
v10,v11	0.945	v10,v11	ν9	3
All	0.969	v10,v11 (no const)	v9	4
All	0.954	v10,v11,v12	v9	5
All	0.974	v10,v11,v12 (no const)	ν9	6
constant,v10,v11,v13	0.956	v10,v11,v12,v13	ν9	7
v10,v11,v13	0.975	v10,v11,v12,v13 (no const)	v9	8
constant,v10,v11,v13	0.957	v10,v11,v12,v13,v14	ν9	9
v10,v11,v13,v14	0.976	v10,v11,v12,v13,v14 (no const)	ν9	10
v10,v11,v13,v14,v15	0.961	v10,v11,v12,v13,v14,v15	ν9	11
v10,v11,v13,v14,v15	0.978	v10,v11,v12,v13,v14,v15 (no const)	v9	12
v10,v11,v12,v13,v14,v15,v16	0.963	v10,v11,v12,v13,v14,v15,v16	v9	13
All	0.98	v10,v11,v12,v13,v14,v15,v16 (no const)	v9	14
v10,v11,v13,v14,v15,v17	0.974	v10,v11,v12,v13,v14,v15,v16,v17	ν9	15
v10,v11,v13,v14,v15,v17	0.985	v10,v11,v12,v13,v14,v15,v16,v17 (no const)	v9	16
v10,v11,v12,v14,v15,v16,v17,v18	0.98	v10,v11,v12,v13,v14,v15,v16,v17,v18	v9	17
v10,v11,v12,v14,v15,v16,v17,v18	0.988	v10,v11,v12,v13,v14,v15,v16,v17,v18 (no const)	ν9	18

Figure 5: Regression experiments for v9 Figure 6 shows the chosen regression results.

OLS Regression Results						
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals:	v9 OLS Least Squares Tue, 20 Nov 2018 19:16:32 618 612		0.986 0.986 7123. 0.00 -1040.4 2093. 2119.			
Df Model: Covariance Type:	6 nonrobust					

Covariance	Type:	nonrob	ust			
	coef	std err	t	P> t	[0.025	0.975]
v10	0.5551	0.022	25.250	0.000	0.512	0.598
v11	0.3324	0.045	7.383	0.000	0.244	0.421
v13	0.4785	0.036	13.131	0.000	0.407	0.550
v14	0.0038	0.001	3.461	0.001	0.002	0.006
v15	-0.1440	0.056	-2.557	0.011	-0.255	-0.033
v17	-0.3342	0.019	-17.388	0.000	-0.372	-0.296

Omnibus:	111.690	Durbin-Watson:	1.990
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1976.264
Skew:	0.078	Prob(JB):	0.00
Kurtosis:	11.759	Cond. No.	169.

Figure 6: Regression results for v9

The regression experiments for v10 are shown in Figure 7.

Significant IVs	Adj. R^2	IVs	DV	Expt. No.
All	0.852	v11	v10	1
All	0.911	v11 (no const)	v10	2
All	0.88	v11,v12	v10	3
All	0.926	v11,v12 (no const)	v10	4
All	0.943	v11,v12,v13	v10	5
All	0.965	v11,v12,v13 (no const)	v10	6
v11,v12,v13,v14	0.958	v11,v12,v13,v14	v10	7
All	0.976	v11,v12,v13,v14 (no const)	v10	8
constant,v12,v13,v14,v15	0.96	v11,v12,v13,v14,v15	v10	9
v12,v13,v14,v15	0.977	v11,v12,v13,v14,v15 (no const)	v10	10
constant,v12,v13,v14,v15,v16	0.961	v11,v12,v13,v14,v15,v16	v10	11
v12,v13,v14,v15,v16	0.977	v11,v12,v13,v14,v15,v16 (no const)	v10	12
constant,v11,v13,v14,v15,v16,v17	0.98	v11,v12,v13,v14,v15,v16,v17	v10	13
v11,v13,v14,v15,v16,v17	0.988	v11,v12,v13,v14,v15,v16,v17 (no const)	v10	14
All	0.987	v11,v12,v13,v14,v15,v16,v17,v18	v10	15
All	0.992	v11,v12,v13,v14,v15,v16,v17,v18 (no const)	v10	16
constant,v11,v12,v14,v15,v16,v17,v18,v19	0.987	v11,v12,v13,v14,v15,v16,v17,v18,v19	v10	17
v11,v12,v14,v15,v16,v17,v18,v19	0.992	v11,v12,v13,v14,v15,v16,v17,v18,v19 (no const)	v10	18

Figure 7: Regression experiments for v10 Finally, the results of the regression for v10 are shown in Figure 8.

OLS Regression Results								
Dep. Variable: Model: Method: Date: Time: No. Observatio Df Residuals: Df Model: Covariance Typ	ns:			Adj. F-sta Prob	Jared: R-squared: atistic: (F-statistic): ikelihood:		0.993 0.992 1.020e+04 0.00 -1225.3 2467. 2502.	
=========	coef	std err		t	P> t	[0.025	0.975]	
v13 v14 v15	0.6603 -0.5729 0.2161 0.0354 -0.7408 -0.0852 0.7858 1.3468	0.110 0.106 0.002 0.079 0.007 0.022	-5 2 15 -9 -12 35	.896 .207 .030 .377 .420 .879 .053	0.000 0.000 0.043 0.000 0.000 0.000 0.000	0.541 -0.789 0.007 0.031 -0.895 -0.098 0.742 1.199	0.779 -0.357 0.425 0.040 -0.586 -0.072 0.830 1.495	
Omnibus: Prob(Omnibus): Skew: Kurtosis:		-	5.493 9.000 1.769 4.857				1.861 3942.532 0.00 258.	

Figure 8: Regression results for v10

2.2 Analysis on subset of data

We now present the regression experiments and results on the chosen subset of the data. Please note that we renamed the variables for convenience, so v1 through v13 here are really v9 through v21, and v14 here is really v24.

The regression experiments for v9 (shown as v1) are shown in Figure 9.

Expt. No.	DV	IVs	Adj. R^2	Significant IVs
1	v1	v2	0.94	All
2	v1	v2 (no const)	0.966	All
3	v1	v2,v3	0.945	v2,v3
4	v1	v2,v3 (no const)	0.969	All
5	v1	v2,v3,v4	0.954	All
6	v1	v2,v3,v4 (no const)	0.974	All
7	ν1	v2,v3,v4,v5	0.956	constant,v2,v3,v5
8	v1	v2,v3,v4,v5 (no const)	0.975	v2,v3,v5
9	v1	v2,v3,v4,v5,v6	0.957	constant,v2,v3,v5
10	v1	v2,v3,v4,v5,v6 (no const)	0.976	v2,v3,v5,v6
11	v1	v2,v3,v4,v5,v6,v7	0.961	v2,v3,v5,v6,v7
12	v1	v2,v3,v4,v5,v6,v7 (no const)	0.978	v2,v3,v5,v6,v7
13	ν1	v2,v3,v4,v5,v6,v7,v8	0.963	v2,v3,v4,v5,v6,v7,v8
14	ν1	v2,v3,v4,v5,v6,v7,v8 (no const)	0.98	All
15	v1	v2,v3,v4,v5,v6,v7,v8,v9	0.974	v2,v3,v5,v6,v7,v9
16	v1	v2,v3,v4,v5,v6,v7,v8,v9 (no const)	0.985	v2,v3,v5,v6,v7,v9
17	v1	v2,v3,v4,v5,v6,v7,v8,v9,v10	0.98	v2,v3,v4,v6,v7,v8,v9,v10
18	v1	v2,v3,v4,v5,v6,v7,v8,v9,v10 (no const)	0.988	v2,v3,v4,v6,v7,v8,v9,v10

Figure 9: Regression experiments for v9

The chosen regression model results are shown in Figure 10.

OI C	Regression	Poculte
ULS	Regression	Results

Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:	Tue	Least Squar e, 20 Nov 20 19:51	918 :29 518 512 6	F-sta Prob	ared: R-squared: tistic: (F-statistic) ikelihood:	:	0.986 0.986 7123. 0.00 -1040.4 2093. 2119.
v2 0. v3 0. v5 0. v6 0.	coef 5551 3324 4785 0038	std err 0.022 0.045 0.036 0.001	7. 13. 3.	t .250 .383 .131	P> t 0.000 0.000 0.000 0.000 0.001	0.512 0.244 0.407 0.002	0.975] 0.598 0.421 0.550 0.006
	1440 3342	0.056 0.019		. 557 . 388	0.011 0.000	-0.255 -0.372	-0.033 -0.296
Omnibus: Prob(Omnibus): Skew: Kurtosis:			900 978		,		1.990 1976.264 0.00 169.

Figure 10: Regression results for v9

The regression experiments for v10 are shown in Figure 11.

Expt. No.	D۷	IVs	Adj. R^2	Significant IVs
1	v2	v3	0.852	All
2	v2	v3 (no const)	0.911	All
3	v2	v3,v4	0.88	All
4	v2	v3,v4 (no const)	0.926	All
5	v2	v3,v4,v5	0.943	All
6	v2	v3,v4,v5 (no const)	0.965	All
7	v2	v3,v4,v5,v6	0.958	v3,v4,v5,v6
8	v2	v3,v4,v5,v6 (no const)	0.976	All
9	v2	v3,v4,v5,v6,v7	0.96	constant,v4,v5,v6,v7
10	v2	v3,v4,v5,v6,v7 (no const)	0.977	v4,v5,v6,v7
11	v2	v3,v4,v5,v6,v7,v8	0.961	constant,v4,v5,v6,v7,v8
12	v2	v3,v4,v5,v6,v7,v8 (no const)	0.977	v4,v5,v6,v7,v8
13	v2	v3,v4,v5,v6,v7,v8,v9	0.98	constant,v3,v5,v6,v7,v8,v9
14	v2	v3,v4,v5,v6,v7,v8,v9 (no const)	0.988	v3,v5,v6,v7,v8,v9
15	v2	v3,v4,v5,v6,v7,v8,v9,v10	0.987	All
16	v2	v3,v4,v5,v6,v7,v8,v9,v10 (no const)	0.992	All
17	v2	v3,v4,v5,v6,v7,v8,v9,v10,v11	0.987	constant,v3,v4,v6,v7,v8,v9,v10,v11
18	v2	v3,v4,v5,v6,v7,v8,v9,v10,v11 (no const)	0.992	v3,v4,v6,v7,v8,v9,v10,v11

Figure 11: Regression experiments for v10

The chosen model for v10 is shown in Figure 12.

OLS Regression Results							
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:	Т	Least Squa ue, 20 Nov 2 19:52 nonrob	2018 2:54 618 612 6	Adj. F-sta Prob	uared: R-squared: atistic: (F-statistic): Likelihood:	:	0.989 0.989 8902. 0.00 -1355.9 2724. 2750.
	coef	std err		t	P> t	[0.025	0.975]
v5 1. v6 0. v7 -0. v8 -0.	5665 3477 0438 6372 0772 6080	0.072 0.056 0.002 0.094 0.007 0.023	23 18 -6 -11	.841 .986 .660 .785 .541	0.000 0.000 0.000 0.000 0.000 0.000	0.425 1.237 0.039 -0.822 -0.090 0.564	0.708 1.458 0.048 -0.453 -0.064 0.652
Omnibus: Prob(Omnibus): Skew: Kurtosis:		0. -1.	.178 .000 .563 .553	Jarqı Prob	in-Watson: ue-Bera (JB): (JB): . No.		1.991 3118.984 0.00 171.

Figure 12: Regression results for v10

Next, we show Figure 13 and 14, which show the experiments and results for v11.

Expt. No.	D۷	IVs	Adj. R^2	Significant IVs
1	v3	v5	0.809	All
2	v3	v5 (no const)	0.902	All
3	v3	v5,v6	0.832	All
4	v3	v5,v6 (no const)	0.905	All
5	v3	v5,v6,v7	0.936	All
6	v3	v5,v6,v7 (no const)	0.97	All
7	v3	v5,v6,v7,v8	0.936	constant,v5,v6,v7
8	ν3	v5,v6,v7,v8 (no const)	0.97	v5,v6,v7
9	v3	v5,v6,v7,v8,v9	0.938	constant,v5,v6,v7,v9
10	v3	v5,v6,v7,v8,v9 (no const)	0.971	v5,v6,v7,v9
11	v3	v5,v6,v7,v8,v9,v10	0.939	constant,v5,v6,v7,v9,v10
12	v3	v5,v6,v7,v8,v9,v10 (no const)	0.972	v5,v6,v7,v9,v10

Figure 13: Regression experiments for v11

OLS Regression Results							
Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type:		Least Squa ue, 20 Nov 2 19:58 nonrob	2018 3:18 618 615 3	Adj. F-sta Prob	wared: R-squared: atistic: (F-statistic): ikelihood:	:	0.971 0.971 6898. 0.00 -1004.4 2015. 2028.
	coef	std err		t	P> t	[0.025	0.975]
v5 v6 v7	0.1793 -0.0105 0.9759	0.023 0.001 0.026	-13	.717 .216 .264	0.000 0.000 0.000	0.134 -0.012 0.924	0.225 -0.009 1.027
Omnibus: Prob(Omnibus) Skew: Kurtosis:):	-0.	972 000 458 824		. ,		2.081 2506.981 0.00 85.5

Figure 14: Regression results for v11

Finally(!), we show the same set of figures for v13.

Expt. No.	D۷	IVs	Adj. R^2	Significant IVs
1	v5	v7	0.809	v7
2	v5	v7 (no const)	0.901	All
3	v5	v7,v8	0.842	All
4	v5	v7,v8 (no const)	0.912	All
5	v5	v7,v8,v9	0.865	All
6	v5	v7,v8,v9 (no const)	0.923	All
7	v5	v7,v8,v9,v10	0.971	constant,v8,v9,v10
8	ν5	v7,v8,v9,v10 (no const)	0.984	All
9	v5	v7,v8,v9,v10,v11	0.971	constant,v8,v9,v10
10	v5	v7,v8,v9,v10,v11 (no const)	0.984	v8,v9,v10

Figure 15: Regression experiments for v13

OLS Regression Results							
Dep. Variable Model: Method: Date: Time: No. Observati		Least Squ Thu, 22 Nov 23:5		Adj. F-sta Prob	uared: R-squared: atistic: (F-statistic) ikelihood:	:	0.985 0.985 1.005e+04 0.00 -769.75
Df Residuals: Df Model: Covariance Ty		nonro	614 4	BIC:			1565.
	coef	std err		t	P> t	[0.025	0.975]
v7 v8 v9 v10	0.0419 -0.0153 0.1492 0.7589	0.002 0.008	-8 18	.136 .471 .628 .960	0.033 0.000 0.000 0.000	0.003 -0.019 0.133 0.729	0.080 -0.012 0.165 0.789
Omnibus: Prob(Omnibus) Skew: Kurtosis:	:	0 -0	.818 .000 .839 .828		, ,		2.106 4996.027 0.00 29.5

Figure 16: Regression results for v13

3 Cluster Analysis

We now present the full description of where each point is in each clustering algorithm. The explanation in the paper supplements this well enough to clearly understand the segregation of points by both algorithms.

3.1 Analysis on S_1

Figure 17 shows the analysis for S_1 . The Silhouette score for DBSCAN here was 0.635.

We make the following observations. The largest clusters for both the algorithms are very similar (row 9). The two points in the MS cluster that were not in DBSCAN's largest cluster were in its second largest cluster (row 2). All the clusters of the mean-shift algorithm that were of size 4 or less were marked as individual clusters by DBSCAN (rows 5-8 and row 1). More surprisingly, the cluster of 19 points identified by mean-shift was marked as 19 individual clusters by DBSCAN (row 4). Finally, a considerable part of mean-shift's second-largest cluster was also identified as individual points by DBSCAN (row 3).

Index	DBSCAN cluster#	MS cluster#	DBSCAN cluster count	MS cluster count	Common
1	-1	-1	60	5	5
2	-1	0	60	509	2
3	-1	1	60	72	21
4	-1	2	60	19	19
5	-1	3	60	4	4
6	-1	4	60	4	4
7	-1	5	60	3	3
8	-1	6	60	2	2
9	0	0	532	509	507
10	0	1	532	72	25
11	1	1	20	72	20
12	2	1	6	72	6_

Figure 17: Clustering by DBSCAN and Mean-Shift algorithms on S_1

3.2 Analysis on S_2

Figure 18 shows the analysis for S_2 . As noted in the paper, the Silhouette score for DBSCAN for this subset was 0.571.

Index	DBSCAN cluster#	MS cluster#	DBSCAN cluster count	MS cluster count	Common
1	-1	-1	60	8	8
2	-1	1	60	82	28
3	-1	2	60	15	15
4	-1	3	60	3	3
5	-1	4	60	2	2
6	-1	5	60	2	2
7	-1	6	60	2	2
8	0	0	541	504	504
9	0	1	541	82	37
10	1	1	3	82	3
11	2	1	14	82	14

Figure 18: Clustering by DBSCAN and Mean-Shift algorithms on S_2