1 Investigating Hybrid Strategies for Systematic Literature Review

Experiment 1

This notebook displays:

1. Citation Matrix;
2. Matrix of Indication of Steps to find the selected articles;
3. Graph of Indication of Steps to find the selected articles;
4. Backward and Forward Matrix.

Note: Citation Graph --> CitationGraph.ipynb

Selected Studies

Out[3]:

Title	Authors	Year	Metakey	Study
A goal-oriented approach for managing software process change	Hinley, DS and Reiblein, S	1995	hinley1995a	S1
SPI:□I can't get no satisfaction□-directing process improvement to meet business needs	Reiblein, Susan and Symons, Andy	1997	reiblein1997a	S2
Interfacing three complementary technologies: strategic planning, process modeling, and system dynamics	McCoy, WL	1998	mccoy1998a	S3
Better Software Practice for Business Benefit: Principles and Experiences	Messnarz, Richard and Tully, Colin J	1999	messnarz1999a	S4
Managing process inconsistency using viewpoints	Sommerville, Ian and Sawyer, Peter and Viller, Stephen	1999	sommerville1999a	S5
Applying and adjusting a software process improvement model in practice: the use of the IDEAL model in a small software enterprise	Kautz, Karlheinz and Hansen, Henrik Westergaard and Thaysen, Kim	2000	kautz2000a	S6
Linking software process improvement to business strategies: experiences from industry	Debou, Christophe and Kuntzmann-Combelles, Annie	2000	debou2000a	S7
A business goal-based approach to achieving systems engineering capability maturity	Waina, RB	2001	waina2001a	S8
Aggregating viewpoints for strategic software process improvement□a method and a case study	Karlström, Daniel and Runeson, Per and Wohlin, Claes	2002	karlström2002a	S9
Blending CMM and Six Sigma to meet business goals	Murugappan, Mala and Keeni, Gargi	2003	murugappan2003a	S10
Business objectives as drivers for process improvement: Practices and experiences at Thales Naval the Netherlands (TNNL)	Trienekens, Jos JM and Kusters, Rob J and Rendering, Ben and Stokla, Kees	2004	trienekens2004a	S11
Business-oriented process improvement: practices and experiences at Thales Naval The Netherlands (TNNL)	Trienekens, Jos JM and Kusters, Rob J and Rendering, Ben and Stokla, Kees	2005	trienekens2005a	S12
Measuring and improving software process in China	Wang, Qing and Li, Mingshu	2005	wang2005a	S13
QFD application in software process management and improvement based on CMM	Liu, Xiaoqing Frank and Sun, Yan and Kane, Gautam and Kyoya, Yuji and Noguchi, Kunio	2005	liu2005a	S14
Business-oriented software process improvement based on CMM using QFD	Liu, X. and Sun, Y. and Kane, G. and Kyoya, Y. and Noguchi, K.	2006	liu2006a	S15
A Low-overhead method for software process appraisal	Wilkie, F George and Mc Caffery, Fergal and McFall, Donald and Lester, Neil and Wilkinson, Emmanuel	2007	wilkie2007a	S16
Bridging the gap between business strategy and software development	Basili, Victor and Heidrich, Jens and Lindvall, Mikael and Münch, Jürgen and Regardie, Myrna and Rombach, Dieter and Seaman, Carolyn and Trendowicz, Adam	2007	basili2007a	S17
GQM+ Strategies: A comprehensive methodology for aligning business strategies with software measurement	Basili, Victor and Heidrich, Jens and Lindvall, Mikael and Münch, Jürgen and Regardie, Myrna and Rombach, Dieter and Seaman, Carolyn and Trendowicz, Adam	2007	basili2007c	S18
GQM+Strategies - Aligning business strategies with software measurement	Basili, Victor and Heidrich, Jens and Lindvall, Mikael and Munch, Jurgen and Regardie, Myrna and Trendowicz, Adam	2007	basili2007b	S19
ProPAM: SPI based on Process and Project Alignment	Martins, Paula Ventura and Silva, AR	2007	martins2007b	S20
An approach to support the strategic alignment of software process improvement programs	Becker, A.L. and Audy, J.L.N. and Prikladnicki, R.	2008	becker2008a	S21
ProPAMet: a Metric for process and project alignment	Martins, Paula Ventura and Da Silva, Alberto Rodrigues	2008	martins2008a	S22
Strategic alignment of software process improvement programs using QFD	Becker, André Luiz and Prikladnicki, Rafael and Audy, Jorge Luis Nicolas	2008	becker2008b	S23
Entropy based software processes improvement	Trienekens, Jos JM and Kusters, Rob and Kriek, Dirk and Siemons, Paul	2009	trienekens2009a	S24
Software process improvement: Supporting the linking of the software and the business strategies	Albuquerque, Adriano Bessa and Rocha, Ana Regina and Lima, Andreia Cavalcanti	2009	albuquerque2009a	S25
Aligning software-related strategies in multi-organizational settings	Kowalczyk, Martin and Münch, Jürgen and Katahira, Masafumi and Kaneko, Tatsuya and Miyamoto, Yuko and Koishi, Yumi	2010	kowalczyk2010a	S26
Business-oriented software process improvement based on CMMI using QFD	Sun, Yan and Liu, Xiaoqing Frank	2010	sun2010a	S27
Defining and monitoring strategically aligned software improvement goals	Barreto, Andrea Oliveira Soares and Rocha, Ana Regina	2010	barreto2010a	S28
Determining organization-specific process suitability	Armbrust, Ove	2010	armbrust2010a	S29
Integration of strategic management, process improvement and quantitative measurement for managing the competitiveness of software engineering organizations	Guzmán, Javier García and Mitre, Hugo A and Amescua, Antonio and Velasco, Manuel	2010	guzmán2010a	S30
Linking software development and business strategy through measurement	Basili, Victor R and Lindvall, Mikael and Regardie, Myrna and Seaman, Carolyn and Heidrich, Jens and Münch, Jürgen and Rombach, Dieter and Trendowicz, Adam	2010	basili2010a	S31
SAS: A tool for the GQM+ strategies grid derivation process	Mandić Vladimir and Oivo, Markku	2010	mandić2010d	S32
The Rosetta Stone Methodology - A benefits-driven approach to software process improvement	McLoughlin, Fionbarr and Richardson, Ita	2010	mcloughlin2010a	S33
The Rosetta Stone Methodology - A benefits-driven approach to SPI	McLoughlin, F. and Richardson, I.	2010	mcloughlin2010b	S34
Utilizing GQM+ Strategies for an organization-wide earned value analysis	Mandic, Vladimir and Basili, Victor and Oivo, Markku and Harjumaa, Lasse and Markkula, Jouni	2010	mandić2010a	S35
Utilizing GQM+ Strategies for business value analysis: An approach for evaluating business goals	Mandić, Vladimir and Basili, Victor and Harjumaa, Lasse and Oivo, Markku and Markkula, Jouni	2010	mandić2010b	S36

Title	Authors	Year	Metakey	Study
Which Processes Are Needed in Five Years? Strategic Process Portfolio Management at the Japan Aerospace Exploration Agency (JAXA)	Armbrust, Ove and Katahira, Masafumi and Kaneko, Tatsuya and Miyamoto, Yuko and Koishi, Yumi	2010	armbrust2010b	S37
Aligning software projects with business objectives	Trendowicz, Adam and Heidrich, Jens and Shintani, Katsutoshi	2011	trendowicz2011a	S38
Application of GQM+ Strategies{ extregistered} in the Japanese space industry	Kaneko, Tatsuya and Katahira, Masafumi and Miyamoto, Yuko and Kowalczyk, Martin	2011	kaneko2011a	S39
A framework for systematic evaluation of process improvement priorities	Birkholzer, Thomas and Dickmann, Christoph and Vaupel, Jurgen	2011	birkhölzer2011a	S40
Software engineering strategies: aligning software process improvement with strategic goals	Plösch, Reinhold and Pomberger, Gustav and Stallinger, Fritz	2011	plösch2011a	S41
Strategically balanced process adoption	Esfahani, Hesam Chiniforooshan and Yu, Eric and Annosi, Maria Carmela	2011	esfahani2011a	S42
Development and Evaluation of Systems Engineering Strategies: An Assessment-Based Approach	Stallinger, Fritz and Plösch, Reinhold and Neumann, Robert and Horn, Stefan and Vollmar, Jan	2013	stallinger2013a	S43
Experiences and insights from applying gqm+ strategies in a systems product development organisation	Münch, Jürgen and Fagerholm, Fabian and Kettunen, Petri and Pagels, Max and Partanen, Jari	2013	münch2013c	S44
The effects of gqm+ strategies on organizational alignment	Münch, Jürgen and Fagerholm, Fabian and Kettunen, Petri and Pagels, Max and Partanen, Jari	2013	münch2013a	S45
Aligning Organizations Through Measurement	Trendowicz, Victor Basili Adam and Heidrich, Martin Kowalczyk Jens and Münch, Carolyn Seaman Jürgen and Rombach, Dieter	2014	trendowicz2014a	S46
Application of GQM+ Strategies in a small software development unit	Cocozza, Francisco and Brenes, Enrique and Herrera, Gustavo López and Jenkins, Marcelo and Martínez, Alexandra	2014	cocozza2014a	S47
A conceptual framework for SPI evaluation	Unterkalmsteiner, Michael and Gorschek, Tony and Islam, AKM and Cheng, Chow Kian and Permadi, Rahadian Bayu and Feldt, Robert	2014	unterkalmsteiner2014a	S48
A Cynefin based approach to process model tailoring and goal alignment	Lepmets, Marion and O Connor, Rory V and Cater-Steel, Aileen and Mesquida, Antoni Lluis and McBride, Tom	2014	lepmets2014a	S49
An elicitation instrument for operationalising GQM+ Strategies (GQM+ S-EI)	Petersen, Kai and Gencel, Cigdem and Asghari, Negin and Betz, Stefanie	2015	petersen2015a	S50
Exploring the use of the cynefin framework to inform software development approach decisions	O Connor, Rory V and Lepmets, Marion	2015	oConnor2015a	S51

▼ 2 Citation Matrix

1. The line identifies the article references were found via backward.
2. The column identifies who cited it via forward.
3. The "-" indicates that it is not possible for the article in the row to have references (cite) the article in the column, due to the year of publication.
4. The empty cell indicates that the id row/colum could have refer/cited the paper.

For example, it can be seen how ID Row (2008 S23) refer to (1998 S3), (1999 S4), (2005 S14) colum of row 23, and how ID Colum (2008 S23) is cited by (2010 S27), (2010 S28), (2010 S29), (2010 S37) lines of colum 23.

Out[4]:

cited ref	id	1995 S1	1997 S2	1998 S3	1999 S4	1999 S5	2000 S6	2000 S7	2001 S8	2002 S9	2003 S10	2004 S11	2005 S12	2005 S13	2005 S14	2006 S15	2007 S16	2007 S17	2007 S18	2007 S19	2007 S20
1995 S1	hinley1995a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997 S2	reiblein1997a	x		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998 S3	mccoy1998a				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999 S4	messnarz1999a						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999 S5	sommerville1999a						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000 S6	kautz2000a								-	-	-	-	-	-	-	-	-	-	-	-	-
2000 S7	debou2000a								-	-	-	-	-	-	-	-	-	-	-	-	-
2001 S8	waina2001a									-	-	-	-	-	-	-	-	-	-	-	-
2002 S9	karlström2002a					x					-	-	-	-	-	-	-	-	-	-	-
2003 S10	murugappan2003a											-	-	-	-	-	-	-	-	-	-
2004 S11	trienekens2004a							x					-	-	-	-	-	-	-	-	-
2005 S12	trienekens2005a							x								-	-	-	-	-	-
2005 S13	wang2005a										x					-	-	-	-	-	-
2005 S14	liu2005a															-	-	-	-	-	-
2006 S15	liu2006a																-	-	-	-	-
2007 S16	wilkie2007a																				
2007 S17	basili2007a																				
2007 S18	basili2007c																				
2007 S19	basili2007b																				
2007 S20	martins2007b																				
2008 S21	becker2008a			x											x						
2008 S22	martins2008a																				x
2008 S23	becker2008b			x	x										x						
2009 S24	trienekens2009a																				
2009 S25	albuquerque2009a																				x
2010 S26	kowalczyk2010a																		x	x	
2010 S27	sun2010a														x	x					
2010 S28	barreto2010a																			x	
2010 S29	armbrust2010a																				
2010 S30	guzmán2010a																				
2010 S31	basili2010a																	x			
2010 S32	mandić2010d																	x	x		
2010 S33	mcloughlin2010a							x								x					
2010 S34	mcloughlin2010b																				
2010 S35	mandić2010a																				
2010 S36	mandić2010b																	x	x	x	

cited ref	id	1995 S1	1997 S2	1998 S3	1999 S4	1999 S5	2000 S6	2000 S7	2001 S8	2002 S9	2003 S10	2004 S11	2005 S12	2005 S13	2005 S14	2006 S15	2007 S16	2007 S17	2007 S18	2007 S19	2007 S20
2010 S37	armbrust2010b																				
2011 S38	trendowicz2011a																				
2011 S39	kaneko2011a																			x	
2011 S40	birkhölzer2011a																				
2011 S41	plösch2011a																				
2011 S42	esfahani2011a																				
2013 S43	stallinger2013a																				
2013 S44	münch2013c																				
2013 S45	münch2013a																		x		
2014 S46	trendowicz2014a																				
2014 S47	cocozza2014a																	x			
2014 S48	unterkalmsteiner2014a							x			x									x	
2014 S49	lepmets2014a																				
2015 S50	petersen2015a																	x			
2015 S51	oConnor2015a																				

Out[6]: 13

3 Matrix - Steps to Find Selected Article

Number of steps to find an article from the list of selected, through the articles found in the references and by whom cites it.
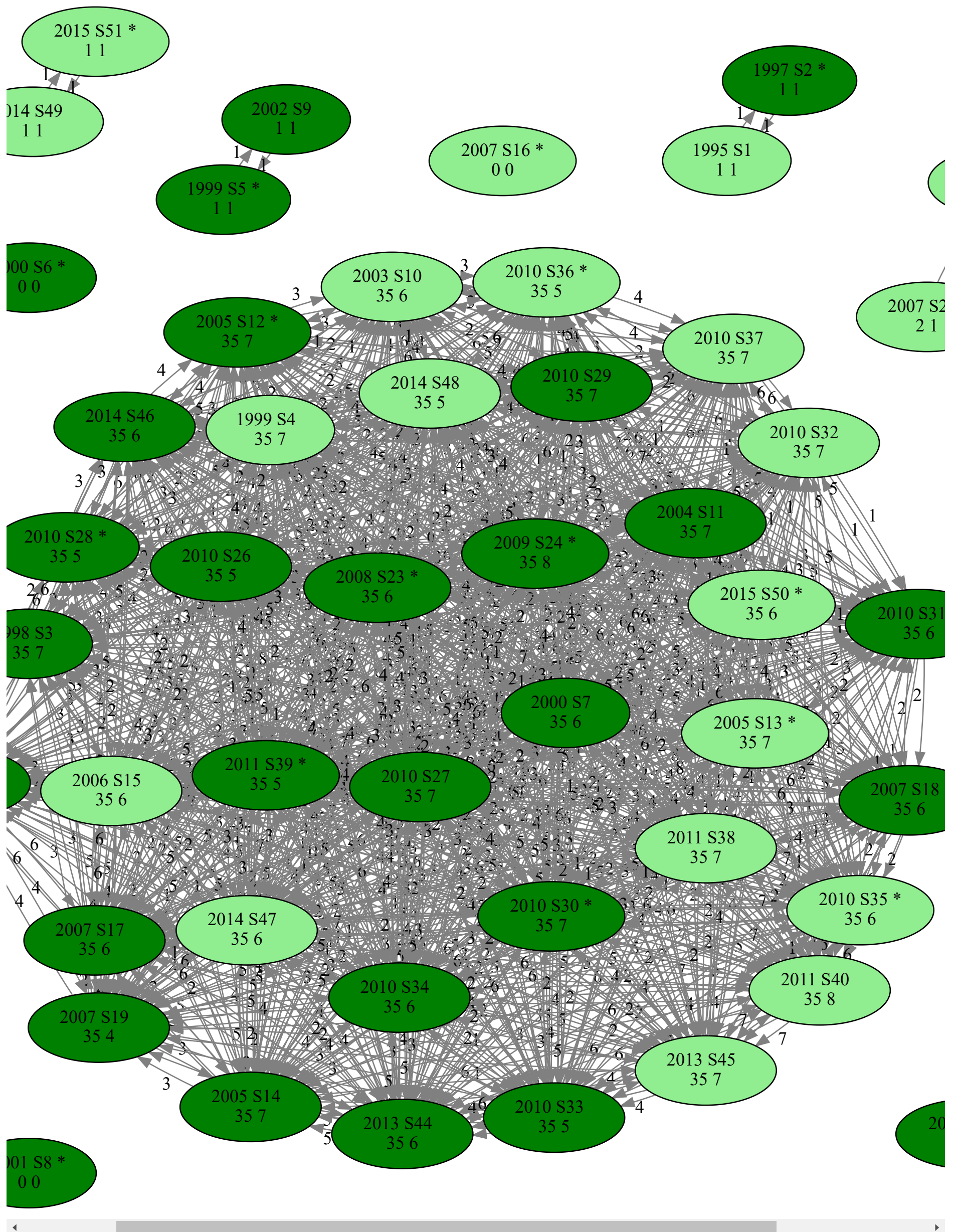
Subtitle: inf = infinite steps

Out[7]:

cited ref	id	1995 S1	1997 S2	1998 S3	1999 S4	1999 S5	2000 S6	2000 S7	2001 S8	2002 S9	2003 S10	2004 S11	2005 S12	2005 S13	2005 S14	2006 S15	2007 S16	2007 S17	2007 S18	2007 S19	2007 S20
1995 S1	hinley1995a	0	1	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
1997 S2	reiblein1997a	1	0	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
1998 S3	mccoy1998a	inf	inf	0	2	inf	inf	5	inf	inf	5	6	6	6	2	3	inf	5	5	3	inf
1999 S4	messnarz1999a	inf	inf	2	0	inf	inf	5	inf	inf	5	6	6	6	2	3	inf	5	5	3	inf
1999 S5	sommerville1999a	inf	inf	inf	inf	0	inf	inf	inf	1	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2000 S6	kautz2000a	inf	inf	inf	inf	inf	0	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2000 S7	debou2000a	inf	inf	5	5	inf	inf	0	inf	inf	2	1	1	3	4	2	inf	3	4	2	inf
2001 S8	waina2001a	inf	inf	inf	inf	inf	inf	inf	0	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2002 S9	karlström2002a	inf	inf	inf	inf	1	inf	inf	inf	0	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2003 S10	murugappan2003a	inf	inf	5	5	inf	inf	2	inf	inf	0	3	3	1	5	4	inf	3	4	2	inf
2004 S11	trienekens2004a	inf	inf	6	6	inf	inf	1	inf	inf	3	0	2	4	5	3	inf	4	5	3	inf
2005 S12	trienekens2005a	inf	inf	6	6	inf	inf	1	inf	inf	3	2	0	4	5	3	inf	4	5	3	inf
2005 S13	wang2005a	inf	inf	6	6	inf	inf	3	inf	inf	1	4	4	0	6	5	inf	4	5	3	inf
2005 S14	liu2005a	inf	inf	2	2	inf	inf	4	inf	inf	5	5	5	6	0	2	inf	5	5	3	inf
2006 S15	liu2006a	inf	inf	3	3	inf	inf	2	inf	inf	4	3	3	5	2	0	inf	5	6	4	inf
2007 S16	wilkie2007a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	0	inf	inf	inf	inf
2007 S17	basili2007a	inf	inf	5	5	inf	inf	3	inf	inf	3	4	4	4	5	5	inf	0	2	2	inf
2007 S18	basili2007c	inf	inf	5	5	inf	inf	4	inf	inf	4	5	5	5	5	6	inf	2	0	2	inf
2007 S19	basili2007b	inf	inf	3	3	inf	inf	2	inf	inf	2	3	3	3	3	4	inf	2	2	0	inf
2007 S20	martins2007b	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	0
2008 S21	becker2008a	inf	inf	1	3	inf	inf	5	inf	inf	6	6	6	7	1	3	inf	6	6	4	inf
2008 S22	martins2008a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	1
2008 S23	becker2008b	inf	inf	1	1	inf	inf	4	inf	inf	4	5	5	5	1	2	inf	4	4	2	inf
2009 S24	trienekens2009a	inf	inf	7	7	inf	inf	4	inf	inf	4	5	5	5	7	6	inf	3	4	4	inf
2009 S25	albuquerque2009a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	1
2010 S26	kowalczyk2010a	inf	inf	4	4	inf	inf	3	inf	inf	3	4	4	4	4	5	inf	3	1	1	inf
2010 S27	sun2010a	inf	inf	2	2	inf	inf	3	inf	inf	5	4	4	6	1	1	inf	5	5	3	inf
2010 S28	barreto2010a	inf	inf	2	2	inf	inf	3	inf	inf	3	4	4	4	2	3	inf	3	3	1	inf
2010 S29	armbrust2010a	inf	inf	2	2	inf	inf	5	inf	inf	5	6	6	6	2	3	inf	5	5	3	inf
2010 S30	guzmán2010a	inf	inf	6	6	inf	inf	3	inf	inf	3	4	4	4	6	5	inf	2	3	3	inf
2010 S31	basili2010a	inf	inf	5	5	inf	inf	2	inf	inf	2	3	3	3	5	4	inf	1	2	2	inf
2010 S32	mandić2010d	inf	inf	6	6	inf	inf	3	inf	inf	3	4	4	4	6	5	inf	1	1	3	inf
2010 S33	mcloughlin2010a	inf	inf	4	4	inf	inf	1	inf	inf	3	2	2	4	3	1	inf	4	5	3	inf
2010 S34	mcloughlin2010b	inf	inf	5	5	inf	inf	2	inf	inf	4	3	3	5	4	2	inf	5	6	4	inf
2010 S35	mandić2010a	inf	inf	5	5	inf	inf	3	inf	inf	3	4	4	4	5	5	inf	2	2	2	inf
2010 S36	mandić2010b	inf	inf	4	4	inf	inf	3	inf	inf	3	4	4	4	4	5	inf	1	1	1	inf

cited ref	id	1995 S1	1997 S2	1998 S3	1999 S4	1999 S5	2000 S6	2000 S7	2001 S8	2002 S9	2003 S10	2004 S11	2005 S12	2005 S13	2005 S14	2006 S15	2007 S16	2007 S17	2007 S18	2007 S19	2007 S20
2010 S37	armbrust2010b	inf	inf	2	2	inf	inf	5	inf	inf	5	6	6	6	2	3	inf	5	5	3	inf
2011 S38	trendowicz2011a	inf	inf	6	6	inf	inf	3	inf	inf	3	4	4	4	6	5	inf	2	3	3	inf
2011 S39	kaneko2011a	inf	inf	4	4	inf	inf	3	inf	inf	3	4	4	4	4	5	inf	2	2	1	inf
2011 S40	birkhölzer2011a	inf	inf	3	3	inf	inf	6	inf	inf	6	7	7	7	3	4	inf	6	6	4	inf
2011 S41	plösch2011a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2011 S42	esfahani2011a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2013 S43	stallinger2013a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2013 S44	münch2013c	inf	inf	5	5	inf	inf	3	inf	inf	3	4	4	4	5	5	inf	2	2	2	inf
2013 S45	münch2013a	inf	inf	6	6	inf	inf	3	inf	inf	3	4	4	4	6	5	inf	2	1	3	inf
2014 S46	trendowicz2014a	inf	inf	5	5	inf	inf	3	inf	inf	3	4	4	4	5	5	inf	2	2	2	inf
2014 S47	cocozza2014a	inf	inf	5	5	inf	inf	3	inf	inf	3	4	4	4	5	5	inf	1	2	2	inf
2014 S48	unterkalmsteiner2014a	inf	inf	4	4	inf	inf	1	inf	inf	1	2	2	2	4	3	inf	2	3	1	inf
2014 S49	lepmets2014a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf
2015 S50	petersen2015a	inf	inf	5	5	inf	inf	3	inf	inf	3	4	4	4	5	5	inf	1	2	2	inf
2015 S51	oConnor2015a	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf	inf

4 Graph Citation - Steps to Find Selected Article

Floyd-Warshall algorithm was used to generate the graph: Determines the distance between all the pairs of vertices of a graph and identify steps to find selected articles.

Subtitle: Node green color = is final selected; Node lightgreen color = not is final selected; Node with (*) = is seed set.

2015 S51 *
1 1

2014 S49
1 1

2002 S9
1 1

1999 S5 *
1 1

2007 S16 *
0 0

1997 S2 *
1 1

1995 S1
1 1

000 S6 *
0 0

2003 S10
35 6

2010 S36 *
35 5

2005 S12 *
35 7

2010 S37
35 7

2007 S2
2 1

2014 S48
35 5

2010 S29
35 7

2014 S46
35 6

1999 S4
35 7

2010 S32
35 7

2010 S28 *
35 5

2010 S26
35 5

2008 S23 *
35 6

2009 S24 *
35 8

2004 S11
35 7

2015 S50 *
35 6

2010 S31
35 6

998 S3
35 7

2000 S7
35 6

2005 S13 *
35 7

2006 S15
35 6

2011 S39 *
35 5

2010 S27
35 7

2007 S18
35 6

2011 S38
35 7

2010 S35 *
35 6

2007 S17
35 6

2014 S47
35 6

2010 S30 *
35 7

2011 S40
35 8

2007 S19
35 4

2010 S34
35 6

2013 S45
35 7

001 S8 *
0 0

2005 S14
35 7

2013 S44
35 6

2010 S33
35 5

▼ 5 Backward and Forward - Details

1. Number of articles visited and how many steps was used to find the article from the list of selected;
2. Number of articles found via backward and how many were selected;
3. Number of articles found via forward and how many were selected.

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S1	hinley1995a	2	1	16	0	1	1	koch1992a, kellner1991a, lientz1980a, rands1992a, tully1989a, humphrey1991b, drew1993a, hinley1993a, shepperd1990a, kellner1989a, hinley1992a, humphrey1989c, hinley1993b, basili1984b, rombach1987a, gilb1988a		reiblein1997a	rei
S2	reiblein1997a	2	1	15	1	10	0	hinley1995a, itil1989a, miller1995a, hinley1997a, kaplan1993a, kaplan1996b, deming1986a, vlasveld1995a, iso1994a, trade1992a, humphrey1989a, isoies1997a, iso1994b, group1997a, cmm1993a	hinley1995a	alshawi2007a, halloran1999a, baddoo2001a, stelzer1998b, schalken2007a, donkin2002a, murakami2007a, brouwer2007a, bowers2001a, makipaa2004a	
S3	mccoy1998a	36	7	5	0	2	2	dod1996a, blackerby1993a, madni1998a, dynsys1998a, kapp1998a		becker2008a, becker2008b	be be
S4	messnarz1999a	36	7	0	0	39	1			niazi2005a, dyba2005a, niazi2005b, abrahamsson2001a, komi2004a, komi2004a, becker2008b, messnarz2012a, messnarz2009a, abrahamsson2007a, emam2001b, spork2008a, rose2008a, kettunen2010a, pries2003a, hrastnik2004a, messnarz2011a, messnarz2006a, messnarz2010a, barafort2011a, messnarz2011b, riel2010b, mccaffery2013a, emam2001c, biró2006a, content2004a, biro1999a, connor2011a, stolfa2017a, messnarz2010b, connor2015a, kreiner2016a, area1999a, barafort2014a, winkler2012a, rose2015a, guzmán9999a, area1999a, messnarz9999a	be

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S5	sommerville1999a	2	1	37	0	55	1	finkelstein1994a, fuggetta1996a, hammer1990a, humphrey1988a, paulk1993c, haase1994a, emam1997a, sommerville1997a, emmet1996a, sommerville1997b, sommerville1998a, osterweil1987a, fernstro1993a, sutton1997a, paulk1995a, sommerville1996a, cugola1996a, conradi1995a, checkland1981a, mullery1979a, kotonya1992a, kotonya1995a, sommerville1995a, basili2006a, checkland1990a, rombach1991a, bro1995a, becker1997a, vertage1994a, bandinelli1995a, bandinelli1993a, madhavji1994a, heineman1994a, turgeon1996a, finkelstein1992a, nuseibeh1994a, easterbrook1996a		karlström2002a, marcus2005a, kandé2000a, sawyer2002a, liu2008a, katz2004a, ghose2007a, gans2003a, karlström2005a, ghose2007b, kabbaj2008a, egorova2009a, marcelloni2001a, easterbrook2001a, yang2007a, zhang2009a, acharya2005a, nguyen2003a, taipale2007a, rayson1999a, rayson2000a, katz2004b, rayson1999b, bent2006a, kim2014a, rayson1999c, soares2012a, zhang2010a, nguyen2004a, müller2012a, eljabiri2012a, michel2009a, aysolmaz2011a, eljabiri2001a, berkovich2012a, nunn2016a, morisio2009a, aida2003a, charrel2007a, jun2007a, jurczuk2017b, jesko9999a, solaimani2017a, jurczuk2017a, karlström2002b, lui2008a, nair2009a, francalanci2016a, ghose9999a, solaimani2014a, zhiping2011a, alves2002a, vázquez2001a, vazquez2000a, apfelbacher2007a	karl

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S6	kautz2000a	1	0	11	0	91	0	brodman1994a, kautz1999a, argyris1991a, mcfeeley1996b, iversen1998a, hansen1998a, hansen1998b, kautz2000b, rogers1983a, kautz1999b, borum1995a		hansen2004a, gorschek2008a, kautz2004a, guerrero2004a, kauppinen2004a, müller2010a, carter2001a, pino2010b, gorschek2006b, mishra2009a, gorschek2004a, casey2004a, gorschek2012a, pino2009a, kasurinen2013a, leung2007a, farooq2007a, alagarsamy2008a, santos2011a, cater2004b, kauppinen2001a, petersen2014a, vähäniitty2003a, alagarsamy2007a, kautz2001a, leih2006a, mishra2008a, svahnberg2013a, tjornehoj2008a, tjørnehøj2010a, pino2009b, gleirscher2014a, habib2008a, aysolmaz2011b, mas2005a, dagnino2014a, casey2002a, kautz2001b, bekkers2012a, kautz2001c, mäkiö2010a, adamonis2005a, wong2006a, gruner2011a, cater2004c, kauppinen2005a, landaeta2008a, balandis2005a, walker2007a, begum2010a, sujaritha2007a, kasurinen2012a, zyl2009a, klendauer2012a, kauppinen2002a, emam2006a, dagnino2014b, pernstål2013a, hjalmarsson2004a, aysolmaz2011c, shen2008a, rasidi2008a, carter2001b, tjørnehøj2008a, suganya2016a, preis2012a, hjalmarsson2004b, gon2012a, bertrand2008a, khdair2009a, sanders2008a, gon2014a, gorschek2006c, arenis2016a, key2016a, kautz2000c, kasurinen2017a, gong2005a, rodríguez2010a, vähäniitty2003b, ayaz2017a, rudzki2011a, curiel2013a, leite2010a, batista2009a, khdair2009a, saikkonen9999a, metodologia2009a, montoni2007b, laru2007a, machado9999a	

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S7	debou2000a	36	6	8	0	53	4	basili1988b, debou1995a, mcfeeley1996c, mcgarry1994a, paulk1993a, paulk1993e, pulford1995a, spice1997a		dyba2005a, unterkalmsteiner2012a, staples2008a, walia2009a, cater2006a, mishra2009a, cater2001a, ba2009a, weerd2010a, basri2010a, richardson2001a, cater2004b, weerd2009a, ferreira2011a, visconti2002a, napier2008a, richardson2002a, santos2009a, kandt2003a, walia2007a, vasconcellos2017a, jedlitschka2004a, ba2008a, butt2008a, cater2005a, walia2009b, ferreira2010a, cheng2009a, halloran2004a, basri2010b, hernández2010a, santana2007a, aguiar2008a, roggio2000a, tagra2009a, fröhlich2001a, taipale2005a, utulu2013a, cater2006b, alexandre2003a, santana2008a, richardson2002b, donkin2002a, cater2006c, chaurasia2015a, niazi2018a, aguiar2008a, sampaio2010a, ferreira2011b, mcloughlin2010a, trienekens2004a, trienekens2005a, unterkalmsteiner2014a	mclc trien trien unterka
S8	waina2001a	1	0	26	0	2	0	whitney1994a, dunaway1996a, dedolph1994a, team2000a, humphrey1989a, hefner1999a, caputo1997a, humphrey1999a, caputo1999a, caputo1999a, waina2000a, associates1996a, davis2000a, ferguson1998a, wigle1999a, rifkin1990a, eagen1999a, waina2001b, kaplan1992a, austin1996a, jones2001a, florac1997a, park1996a, perkins2001a, zuse1998a, dekkers1999a		dounos2010a, ye2010a	
S9	karlström2002a	2	1	19	1	30	0	humphrey1989a, paulk1993b, cattaneo2001a, herbsleb1995a, bandinelli1995a, sommerville1999a, solingen1999a, karlsson1997a, saaty1980a, point2002a, forman1998a, montgomery1991a, siegel1956a, thayer2005a, mcconnell1998a, yin1994a, bratthall2000b, wohlin2000b, humphrey1995a	sommerville1999a	rovegård2008a, wohlin2012a, karlström2005a, taipale2007a, jönsson2005a, jönsson2005b, brenda2013a, jönsson2007a, jönsson2005c, wohlin2012b, wohlin2012c, wohlin2012d, muñoz2014a, wohlin2012e, hjalmarsson2004a, tihinen2006a, mirna2014a, wohlin2012f, ali2013a, wohlin2012g, wohlin2012h, hjalmarsson2004b, ali2012b, ali2010a, wohlin2012i, jönsson2008a, angelis2008a, wohlin2012j, muñoz2016a, schrama2013a	

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte...
S10	murugappan2003a	36	6	13	0	77	2	paulk1993b, keeni2000a, keeni2002a, keeni2001a, keeni2000b, radice2001a, nandivada2000a, radice1999a, card2000a, prasad2001a, murugappan2002a, sytsma1999a, murugappan2000a		kwak2006a, aboelmaged2010a, unterkalmsteiner2012a, subramanian2007a, nonthaleerak2006a, wu2006a, tjahjono2010a, tang2007a, mahanti2005a, anbari2004a, siviy2007a, mahanti2009a, kundu2012a, wang2005b, mahanti2006a, jiang2011a, knowles2011a, brady2005a, garcia2009a, antoniol2004a, kundu2012b, patel2009a, li2008a, patyal2015a, bahli2004a, zhang2008c, landaeta2008a, asato2011a, bubevski2014a, müller2012a, besseris2010a, kundu2016a, cheng2009a, wandersman2012a, rico2010a, el2011a, barcellos2008b, el2013a, unterkalmsteiner2010a, wang2005c, chen2007b, deng2015a, daubner2008a, rico9999a, choi2006a, khan2016a, dalipi2012a, nyambegera2014a, islam2009a, strate2013a, el2010b, zhang9999a, tong2009a, paruchuri2009a, manohar9999a, manohar9999a, sharma2012a, tse2005a, bubevski2016a, u2018a, chen2007c, al2018a, sharma2017a, simmons2010a, mahanti2014a, cerdeiral2017a, quintella2017a, barcellos9999a, mayoral2012a, andrade9999a, sun2012a, tonini2006a, quintella9999a, caivano9999a, horizonte2017a, unterkalmsteiner2014a, wang2005a	unterka... w
S11	trienekens2004a	36	7	13	1	1	0	debou2000a, balla2001a, cattaneo2001a, dawson2003a, iso1994e, latum1998a, mellis1998a, neiger2003a, paulk1995b, solingen2000b, solingen1999a, stelzer1998a, trienekens2001a	debou2000a	el2010a	
S12	trienekens2005a	36	7	15	1	17	0	debou2000a, balla2001a, cattaneo2001a, dawson2003a, gack2003a, iso2005a, kaplan2001a, latum1998a, mellis1998a, neiger2003a, paulk1995b, solingen2000b, solingen1999a, stelzer1998a, trienekens2001a	debou2000a	staples2008a, chen2008a, glykas2011a, vuk2010a, chen2007a, shahzad2012a, vasconcellos2017a, glykas2014a, brenda2013a, lang2010a, savioja2007a, zawedde2016a, lohrmann2013a, songnisai2008a, siritanachot2008a, vasconcellos2017b, lang2014b	

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S13	wang2005a	36	7	16	1	42	0	sommerville2004a, stiller2002a, jing2001a, sixsigma2000a, nasa2000a, lawler2003a, kan2003a, basili1994a, park1996a, mcgarry2001a, florac1999a, eickelmann2003a, paulk2000a, sixsigma2003a, murugappan2003a, chrissis2004a	murugappan2003a	unterkalmsteiner2012a, wang2006a, yang2009a, lin2009a, monteiro2011a, wang2007a, lang2008a, gou2009a, gou2008a, li2006a, wang2008a, bhatti2009a, li2009a, ruan2007a, santos2008a, zhang2008a, mao2008a, wang2011a, zhang2010b, malik2010a, barcellos2008a, cheng2009a, barcellos2008b, du2010a, shu2010a, brito2016a, unterkalmsteiner2010a, lang2011c, malik2010b, monteiro2008a, barcellos2009a, bhatti2009b, zhai2008a, zhang2008b, mei2018a, oliveira2014a, zhang2008d, cerdeiral2017a, tomaz2017a, monteiro9999a, tatibana2017a, barcellos2014a	
S14	liu2005a	36	7	14	0	11	3	iso2001a, paulk1993a, paulk1993e, paulk1994b, akao1990c, akao1998a, zultner1995a, richardson2002a, hierholzer1998a, akao1998b, richardson1997a, frank2003a, liu1998a, zultner1992a		becker2008a, becker2008b, yihong2012a, fruehwirth2010a, cancian2010a, wong2006a, shah2010a, leba2012a, sharma2011a, lorentz2009a, sun2010a	be be s
S15	liu2006a	36	6	19	0	11	2	akao1990c, akao1998b, akao1998a, bamberger1997a, hierholzer1998a, hyde2004a, klein1998a, krasner1994b, liu1998a, frank2003a, paulk1994a, paulk1993a, paulk1993e, paulk1995a, richardson1997a, richardson2002a, saaty1990a, zultner1992b, zultner1995a		zhu2010a, dounos2010a, liu2009a, kettunen2009b, cohen2008a, wang2013b, ye2010a, rodríguez2010a, cuervo9999a, mcloughlin2010a, sun2010a	mclo s
S16	wilkie2007a	1	0	20	0	10	0	anacleto2004a, anacleto2004b, chrissis2003a, cignoni1999a, cspt2003a, institute2005a, iso2006a, ISOIEC2006a, makinen2000a, caffery2005a, caffery2004a, mcfall2003a, mcfeeley1996a, rout2001a, paulk1995a, team2007a, sei2004a, sei2005a, wilkie2004a, wilkie2005a		napier2009a, lester2010a, laporte2009a, zarour2009a, sánchez2016a, lester2007a, al2013a, zarour2011a, zarour2009b, taylor2009a	

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S17	basili2007a	36	6	15	0	55	5	basili1984a, basili1989a, basili1994a, becker1999a, bianchi2001a, buglione2000a, card2003b, chrissis2003a, cobit2007a, kaplan1992a, offen1997a, ogc2002a, usddusa2003a, weiss1998a, basili1994b		basili2009a, damiani2008a, aversano2016a, mandić2010c, ellis2012a, mulazzani2009a, samtani2012a, kelanti2013a, álvarez2015a, samtani2012b, quintero2012a, aoki2016a, mandić2010f, ellis2013a, heidrich2009a, hyysalo2014a, münch2012b, kobori2016a, münch2012c, ellis2013b, texel2015a, molina2012a, münch2009a, ahmad2016a, texel2013a, mandić2017a, mulazzani2009b, aoki2017a, roditi2014a, asghari2012a, pérez2017a, becker2014a, papa2015a, aarts2016a, cahyaningsih2014a, jayatilleke2017a, mandic2012a, lindqvist2016a, mughal2017a, kramer2014a, mulazzani2009c, monden2017a, nagel2015a, casare2012a, cervantes2016a, cervantes2012a, santo2015a, aarts2016a, chaos9999a, pinto9999a, basili2010a, cocozza2014a, mandić2010b, mandić2010d, petersen2015a	ba coc ma ma pet
S18	basili2007c	36	6	10	0	35	4	basili1994c, becker1999a, buglione2000a, chrissis2007a, cobit2007a, kaplan1992b, offen1997a, ogc2002a, tierstein1997a, dod2007a		fagerholm2014a, mandić2010b, fagerholm2017a, lindgren2015a, heidrich2008a, papa2012a, lindgren2016a, mandić2010d, olsina2011b, luo2016a, kowalczyk2014a, dumke2009a, mandić2010f, ta2015a, münch2012b, kelemen2014a, dumke2014a, dumke2013a, münch2009a, valle2017a, papa2016a, heidrich2010a, luo2015a, roditi2014a, ciolkowski2008a, becker2014a, papa2012b, papa2015a, mandic2012a, cuadrado2010a, sadabadi2016a, sakul2017a, lindgren2015b, kowalczyk2010a, münch2013a	ma ma kow m

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S19	basili2007b	36	4	7	0	69	5	basili1984a, basili1994a, chrissis2003a, ogc2002a, isaca2008b, kaplan1992a, psmsc2002a		barreto2010a, münch2013e, amannejad2014a, sarcia2010a, harjumaa2008a, damiani2008a, ramler2010a, mandić2010c, caputo2010a, umarji2009b, kowalczyk2014a, danovaro2008a, fabijan2016a, cedergren2014a, yang2010a, przybylek2011a, uchida2016a, mandić2010f, buglione2011a, garousi2012a, barreto2009a, bennicke2008a, kowalczyk2013a, thammarak2011a, hernández2010a, guinea2013a, janes2014a, münch2009a, mandić2010e, mandić2017a, heidrich2012a, teles2014a, armbrust2007a, júnior2010a, mitre2014a, tsunoda2011a, mandic2012a, marcos2017a, watanabe2017a, janes2014b, machado2016a, ferreira2018a, thammarak2013a, mitrehernández2014a, moraes2017a, katopodis2015a, debruyn2014a, ferreira2014a, cansado2012a, bóka2009a, trinkenreich2015b, montebelo2008a, pimentel2016a, pinho2010a, dashkov2017a, rocha2009a, papazov9999a, cansado9999a, voigt9999a, marcos2017b, trinkenreich2015b, pimentel2016a, pinto9999a, rivera9999a, rocha2009a, kaneko2011a, kowalczyk2010a, mandić2010b, unterkalmsteiner2014a	ba ka kow ma unterka
S20	martins2007b	3	1	14	0	13	2	salo2005a, krasner1997a, sei1993a, sei2002a, spice1998a, kuvaja1994a, beck2001a, gruhn1998a, curtis1992a, krasner1992a, bolcer1996a, basili1992b, henninger2001a, heller2003a		albuquerque2009a, martinez2011a, martínez2013a, martins2009a, martínez2013b, martins2007a, martins2010a, albuquerque2010a, albuquerque2009b, martins2016a, lang2011a, lang2011b, martins2008a	albuq ma
S21	becker2008a	36	8	24	2	1	0	akao1990a, biró1999a, brodman1995a, chrissis2003a, cox1992a, mccoy1998a, debou1999a, dyba2005a, grady1997a, hierholzer1998a, humphrey1989b, isoiec2003a, liu2005a, montoni2007a, niazi2003a, paulk1993a, peterson1995a, pitterman2000a, pulford1996a, weber2005a, yamamura1999a, yin2003a, zahran1998a, zaijun2005a	mccoy1998a, liu2005a	spósito2016a	

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S22	martins2008a	3	2	14	1	5	0	salo2005a, krasner1997a, paulk1993a, cmm2002a, isoiec1998a, isoiec1998b, isoiec1998c, kuvaja1994a, emam1999a, arthur1993a, pfleeger1994a, solingen1999a, martins2007b, vertage1994a	martins2007b	ollus2011a, uoti2011a, jansson2015a, muñoz2016a, jansson2011a	
S23	becker2008b	36	6	23	3	21	5	akao1990b, biró1999a, brodman1995a, cox1992a, debou1999a, dyba2005a, grady1997b, hierholzer1998a, humphrey1989a, liu2005a, mccoy1998a, mintzberg2000a, niazi2003a, oliveira1998a, peterson1995a, pitterman2000a, pulford1996b, richardson2001a, serrano2003a, yamamura1999a, zahran1998a, zaijun2005a, messnarz1999a	liu2005a, mccoy1998a, messnarz1999a	armbrust2010a, armbrust2010b, barreto2010a, ullah2011a, chebrolu2013a, mandić2010c, vasconcellos2017a, aversano2013a, barreto2011a, escofet2009a, escofet2010a, barreto2009a, lópez2012a, carvalho2010a, ullah2014a, lang2013a, lang2013b, moreira2017a, moreira2017b, armbrust2010b, sun2010a	arm arm ba arm s
S24	trienekens2009a	36	8	13	0	22	1	balla2001a, boldyreff1997a, boltzmann2000a, habra2007a, humphrey2011a, kuilboer2000a, ngwenyama2003a, paulk1993b, paulk1995a, ruiz2002a, cmmi2001a, sei2006a, wangeheim2006a		guzmán2010a, colomo2011a, haigh2010a, lee2013a, colomo2012a, oliveira2010a, samalikova2011a, dijkman2016a, vanut2010a, liberato2015a, bruyn2012a, bruyn2014a, suominen2014a, huysmans2014a, zawedde2014a, zawedde2016a, hinz2010a, borgert2009a, haigh2012a, liberato2016a, lee2011a, haigh2012b	gu：
S25	albuquerque2009a	3	2	27	1	5	0	nollen2008a, prahalad1999a, reed2000a, kaplan2000a, wright2000a, thompson2000a, lawrence2001a, mcnair1990a, adams1993a, kim1995a, dybå2003b, hefner2001a, cater2004a, softex2009a, cmusei2006a, isoiec2004b, isoiec2004a, komi2004a, birk1998a, birk2002a, caivano2005a, martins2007b, salo2005b, stalhane2004a, alloui2000a, bardin1977a, boehm2000b	martins2007b	vasconcellos2017a, ardila2013a, lópez2012a, ardila2013b, freire2017a	
S26	kowalczyk2010a	36	5	8	2	5	2	basili1984a, kathuria2007a, basili2007b, basili2007c, basili2009a, basili1994d, kaplan1992b, basili2002a	basili2007b, basili2007c	kaneko2011a, kowalczyk2013a, heidrich2012a, chagas2016a, münch2013c	ka m

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S27	sun2010a	36	7	26	3	46	0	paulk1994a, isoiec1998f, paulk1993b, paulk1993d, chrissis2003a, emam2009a, liu2005a, liu2006a, richardson2002a, richardson1997a, zultner1995a, zultner1992a, zultner1992b, hierholzer1998a, cmmi2006a, gibson2006a, liu2006b, serrano2004a, choi2005a, stelzer1996a, card2004a, beijun2008a, mary2002a, becker2008b, zaijun2005a, akao1990c	liu2005a, liu2006a, becker2008b	vezzetti2014a, cheng2014a, yuen2014a, bekkers2012a, wang2010a, niazi2015a, schillo2017a, liang2016a, serrano2013a, shah2010a, liang2013a, stasytyte2015a, han2012a, west2010a, safaie2017a, choi2014a, herzwurm2015a, alshehri2014a, sanchez2017a, choi2014b, vezzetti2012a, lee2013b, thakurta2016a, thakurta2014a, sanchez2018a, thakurta2015a, wang2012a, alshammari2013a, jeong2013a, aburub2014a, calik2012a, mohamed2015a, rensburg2012a, rodríguez2010a, wang2014a, wang2013a, marrone2017a, suscheck2010a, schockert2017a, stasytyte2015b, robles2016a, choi9999a, calik9999a, imonese2015a, gomes9999a, yilmaz2010a	
S28	barreto2010a	36	5	22	2	11	0	conradi2002a, becker2008b, softex2010a, rocha2006a, chrissis2003a, dyba2005a, pu2006a, mintzberg2000a, chiavenato2000a, kaplan1996a, itgi2010a, huang2009a, castillo2007a, pmi2004a, markovic2008a, basili1994a, park1996a, basili2007b, uraikul2007a, russell1995a, thomas2005a, montoni2007a	becker2008b, basili2007b	lepmets2012a, barcellos2010a, barreto2010b, vasconcellos2017a, ardila2013a, barreto2011a, trinkenreich2015a, ardila2013b, khraiwesh2013a, cervantes2016a, cerdeiral2017a	
S29	armbrust2010a	36	7	21	1	5	1	schmid2003a, bayer2006a, cohen1995a, biffl2003a, schweikhard2006a, vegas2005a, madachy2008a, boehm2000b, denger2006a, rus1999a, jedlitschka2004a, becker1997b, avison1991a, becker2008b, fitzgerald2003a, ecss2009a, bssc2009a, armbrust2009a, david1988a, sheskin1997a, venkatesh2003a	becker2008b	birkhölzer2011b, aleixo2013a, hollauer2017a, teixeira2014a, birkhölzer2011a	birk

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S30	guzmán2010a	36	7	45	2	19	0	basili2010a, asgarkhani2006a, basili2009b, neergaard2007a, capell2004a, card2003a, chastek2009a, dyba2005a, ebert2007a, el2007a, el2001a, fahey2007a, goethert2003a, goethert2004a, gopal2005a, harjumaa2008a, isoiec2004a, isoiec2007a, isoiec2008a, issac2006a, kahraman2007a, kamel2009a, kanji2007a, kaplan1997a, kaplan2005a, kaplan2006a, kaplan2008a, kojima2008a, kuppusamy2008a, lamb1984a, long2008a, mcgarry2002a, mcloone2007a, mehra2004a, mishra2008a, oliveira2009a, peng2007a, porter1979a, qi2007a, shull2006a, sei2006b, trienekens2009a, tuan2006a, watson2007a, el2007a	basili2010a, trienekens2009a	lepmets2012a, becker2012a, pryor2011a, vasconcellos2017a, dadhich2012a, barreto2011a, cyrus2011a, lópez2012a, ramos2015a, sanchez2017a, mitre2014a, hamouda2013a, sanchez2018a, haghighatfar2013a, valenciennes2013a, aguirre2014a, mitrehernández2014a, salgado2015a, robles2016a	
S31	basili2010a	36	6	11	1	145	11	basili1994a, basili2007a, kaplan1992a, usddusa2003a, becker1999a, buglione2000a, bianchi2001a, card2003b, code2010a, clegg1994a, boehm2000a	basili2007a	buse2012a, wallace2014a, paternoster2014a, novais2013a, lew2012a, giardino2014a, kim2016a, trendowicz2013a, guzmán2010a, papa2012a, sarcia2010a, bird2015a, becker2012a, basili2013a, becker2015a, becker2011b, olsina2011a, lew2011a, gencel2013a, mandić2010c, cedergren2011a, kläs2015a, olsina2014a, ferreira2013a, münch2012a, kobori2014b, monden2012a, olsina2011b, rivera2016a, kläs2013a, kobori2014a, liggesmeyer2014a, rivera2016b, giannoulis2013a, tahir2016a, álvarez2015a, heidrich2014a, murphy2015a, eremenko2012a, cedergren2014a, aoki2016a, jedlitschka2013a, mandić2010f, jahn2014a, lescher2011a, kobori2016a, zhang2014a, oberscheven2013a, lavazza2011a, giannoulis2014a, djouab2016a, hernández2010a, hästbacka2013a, leschera2012a, guinea2013a, lópez2016b, janes2014a, osadchyy2013a, khalifa2016a, lópez2016a, ahmad2016a, papa2016a, kettunen2014a, mandić2017a, ebner2014a, lavazza2013a, heidrich2013a, koumaditis2015a, marca2010a,	gu... coc... ma... ma... ma... mü... mü... pet... tren... tren... unterka...

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selected
										sanchez2017a, poligadu2014a, koumaditis2016a, jaramillo2016a, rivera2015a, heidrich2012a, doerr2013a, novais2018a, asghari2012a, olsina2017a, lavazza2015a, washizaki2017a, pérez2017a, becker2014a, papa2012b, papa2015a, rivera2015b, rivera2016c, becker2017a, basili2014a, yamamoto2016a, falessi2014a, diep2016a, mitre2014a, machado2012a, abdulameer2015a, mandic2012a, rombach2014a, port2016a, santos2017a, olsina2013a, armstrong2016a, cedergren2011b, anders9999a, sanchez2018a, machado2016a, heidrich9999a, zapata2017a, mughal2017a, lavazza2015b, nicho2017a, mitrehernández2014a, olsina2012b, jørgensen2014a, hästbacka2013b, trendowicz2014b, hyvönen2015a, rombach2012a, eremenko2013a, erukulapati2017a, jeners2015a, rensburg2012a, boehm2014a, pinheiro2017a, mandić2012b, ferreira2014a, tebes2017a, xu2015a, trendowicz9999a, lang2014a, lang2017a, papa9999a, lang2017b, huberts9999a, mendoza2013a, robles2016a, cocozza2014a, mandić2010a, mandić2010b, mandić2010d, münch2013a, münch2013c, petersen2015a, trendowicz2011a, trendowicz2014a, unterkalmsteiner2014a	
S32	mandić2010d	36	7	13	3	8	1	basili2007c, woodall2000a, kautz1999a, umarji2008a, basili1994a, basili1993a, basili2007a, basili2009a, basili2010a, latum1996a, briand1996a, henricksen2002a, derose1992a	basili2007c, basili2007a, basili2010a	kobori2014a, ardila2013a, tahir2016a, kobori2016a, mandić2017a, asghari2012a, ardila2013b, petersen2015a	pet

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selected
S33	mcloughlin2010a	36	5	45	2	6	2	oecd2006a, cmmi2006a, isoiec2003c, coallier1994a, iso1994c, iso2000a, hailey2011a, group2009a, fagan1976a, dijkstra1979a, solon2002a, zahran2010a, humphrey1991a, dion1992a, dion1993a, yamamura1997a, butler2000a, cmmi2005a, emam1997b, krasner2011a, brodman1995a, brodman1996a, pfleeger1996a, butler1995a, herbsleb1994a, herbsleb1994b, goldenson2003a, burzcuk2002a, garmus2007a, krasner1994a, krasner1995a, putnam1997a, mcloone2007a, liu2007a, o2003a, fayad1997a, jones1996a, reifer2000a, debou2000a, liu2006a, basili1992a, basili1994a, goyal2010a, chrissis2003a, cmmi2002a	debou2000a, liu2006a	mcloughlin2010b, deshpande2012a, cervantes2016a, cervantes2012a, kroll2014a, mcloughlin2010b	mcl... mcl...
S34	mcloughlin2010b	36	6	29	2	3	0	mcloughlin2010a, oecd2004a, cmmi2006b, isoiec2003c, iso1994d, iso2000b, hailey2011a, humphrey1991a, yamamura1997a, butler2000a, brodman1995a, dion1993a, herbsleb1994b, krasner1994a, putnam1997a, cmmi2005b, sapp2007a, goyal2001a, mcloughlin2010a, basili1992a, basili1994a, basili1988a, basili1984a, cmmi2002b, cmmi2002c, chrissis2003a, houston1996a, garmus2001a, mccabe1976a	mcloughlin2010a, mcloughlin2010a	ponisio2012a, ponisio2011a, cervantes2016a	
S35	mandić2010a	36	6	8	2	8	1	erdogmus2004a, brandon1998a, boehm2003a, boehm2003b, basili1993a, basili1994a, basili2010a, mandić2010b	basili2010a, mandić2010b	basili2014b, valente2015a, garay2013a, lópez2016a, basili2014a, basili2014c, valente2015b, trendowicz2014a	tren...

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S36	mandić2010b	36	5	34	4	30	8	basili2007c, ieee1981a, basili1993a, basili1994a, basili2007a, basili2010b, basili2007b, basili2010c, basili2010a, basili1984a, berry2006a, biffl2006a, böckle2004a, boehm2003b, boehm2006a, boehm2003a, brynjolfsson2000a, emam2005a, erdogmus2004a, faulk2010a, grünbacher2006a, halling2003a, harrison2006a, little2004a, mandić2010c, reifer2002a, rodger1999a, sharma2008a, thomas2001a, thorp2003a, tierstein1997a, solingen2004a, solingen1999a, boehm2005a	basili2007c, basili2007a, basili2007b, basili2010a	cocozza2014a, mandić2010a, basili2014b, mandić2010g, münch2013c, basili2013a, aversano2016a, ellis2012a, kobori2014b, kobori2014a, aoki2016a, astromskis2014a, ellis2013a, kobori2016a, fernández2011a, tyrväinen2015a, mandić2017a, cocozza2014a, roditi2014a, asghari2012a, papa2015a, dymek2015a, kalidoss2016a, trendowicz2014a, basili2014c, hyvönen2015a, dashkov2017a, münch2013c, petersen2015a, trendowicz2014a	coc ma mi coc tren mi pet tren
S37	armbrust2010b	36	7	28	2	0	0	standardization2006a, cmmi2009a, schmid2003a, bayer2006b, cohen1995a, biffl2003a, schweikhard2006a, vegas2005a, madachy2008a, boehm2000c, denger2006a, rus1999b, jedlitschka2004a, becker1997b, avison1991b, becker2008b, fitzgerald2003a, ecss2009b, esa2009a, basili1994c, david1988a, äder2002a, biffl2000a, biffl2001a, mccarthy1996a, wojcicki2008a, ourghanlian2003a, becker2008b	becker2008b, becker2008b		
S38	trendowicz2011a	36	7	7	1	16	2	accenture2004a, orlov2007a, gartner2007a, basili2010a, solingen2002a, isoiec2003b, kowalczyk2011a	basili2010a	petersen2015a, basili2014b, monden2012a, kobori2014a, shimura2017a, alves2014a, ellis2013a, kobori2016a, lópez2016a, mandić2017a, jaramillo2016a, heidrich2012a, asghari2012a, zapata2017a, brehm2014a, trendowicz2014a	pet tren
S39	kaneko2011a	36	5	11	2	15	1	kathuria2007a, basili2007b, basili2009a, basili1992a, kowalczyk2010a, isaca2005a, isaca2008a, ogc2002a, kaplan1992a, becker1999a, jaxa2012a	basili2007b, kowalczyk2010a	kobori2014a, aoki2016a, kobori2016a, razón2014a, trinkenreich2017a, lópez2016a, mandić2017a, trinkenreich2015a, heidrich2012a, asghari2012a, watanabe2017a, razón2014b, teixeira2013a, tomaz2017a, petersen2015a	pet

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S40	birkhölzer2011a	36	8	19	1	4	0	rausch2007a, cmmi2010a, takeuchi1986a, beck1999a, armbrust2010a, boehm2010a, fenton2002a, raffo1999a, raffo2000a, basili2009a, dickmann2007a, ast2010a, esfahani2010a, moore1966a, birkhölzer2008a, pe2011a, luenberger1984a, beck2003a, erdogmus2005a	armbrust2010a	bjarnason2013a, ramos2015a, valenciennes2013a, jürisoo2017a	
S41	plösch2011a	2	1	8	0	7	1	isoiec2003b, cmmi2006a, shewhart1931a, dion1993a, mcfeeley1996a, isoiec1998d, simon2002a, venzin2003a		sanchez2017a, sharma2015a, carmo2017a, sanchez2018a, carmo2017b, robles2016a, stallinger2013a	stal
S42	esfahani2011a	1	0	18	0	8	0	esfahani2010a, kaplan1996a, kaplan1996c, kaplan2004a, institute2010a, martinsons1999a, grembergen2002a, huang2007a, kim2003a, sureshchandra2008a, eilat2008a, yu1997a, brinkkemper1996a, poppendieck2003b, sidky2007a, sidky2007b, qumer2008a, krasteva2010a		babar2015a, esfahani2011b, schramm2014a, gandomani2013a, hochstetter2012a, stavru2012a, schramm9999a, rúa2015a	
S43	stallinger2013a	2	1	13	1	0	0	isoiec2008b, isoiec2006a, cmmi2006a, shewhart1931a, dion1993a, mcfeeley1996a, isoiec1998d, plösch2011a, simon2002a, venzin2003a, abb2006a, siemens2007a, isoiec2008c	plösch2011a		
S44	münch2013c	36	6	32	4	18	2	mandić2010b, pfeffer1998a, staron2011a, basili2010a, basili1994a, basili1994b, mandić2010b, lyne2003a, peppard2001a, rautiainen1999a, krishnan2001a, curtis1988a, dagnino2001a, jaufman2004a, karlström2005b, genus2006a, dove2005a, patanakul2010a, turner2007a, allee2008a, mcgrath2004a, sicotte2000a, lainhart2000a, mcgarry2002a, kaplan1992a, pan2007a, olsina2011b, papa2012a, mandić2010c, kowalczyk2010a, edmondson2007a, gummesson1991a	mandić2010b, basili2010a, mandić2010b, kowalczyk2010a	münch2013a, fagerholm2014a, fagerholm2017a, kobori2014b, kobori2014a, kettunen2015a, kobori2016a, trinkenreich2017a, lópez2016a, mandić2017a, roditi2014a, kettunen2016a, watanabe2017a, Hekkala2011a, raju2014a, ammala2015a, raju2014a, petersen2015a	mí pet
S45	münch2013a	36	7	15	3	6	1	basili2007c, basili2009a, basili2010a, eisenhardt1989a, kaplan1992b, lainhart2000a, maltz2003a, mcgrath2004b, unch2012a, münch2013c, pan2007a, pfeffer1998a, software2013a, staron2011a, yin2009a	basili2007c, basili2010a, münch2013c	lópez2016a, mandić2017a, hooge2016a, trinkenreich2017b, chagas2016a, petersen2015a	pet

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S46	trendowicz2014a	36	6	71	5	1	0	mandić2010b, accenture2004a, sw1998a, ai1994a, basili1981a, basili1985a, basili1989a, basili1993a, basili1995b, basili1994e, basili1988c, basili1984b, basili1994f, basili1994a, basili1995a, basili1996a, basili2010a, beck2004a, becker1999a, boehm2003b, briand1996a, brindgeland2008a, budd2009a, buglione2000a, burlton2010a, chillarege1992a, ciolkowski2002a, cmmi2010a, conradi2002a, damiani2008a, deming1986b, eckerson2005a, epstein1998a, fagan1976b, gamma1994a, gartner2010a, gartner2011a, gresse1995a, hammer1990b, hammer2010a, hammer1993a, humphrey2005a, isoiec2009a, kaplan1992a, kaplan1996a, kaplan2004b, kaplan2008b, kerth2001a, laitenberger2002a, mandic2012a, mandić2010a, mandić2010g, mandić2010b, nch2004a, unch2012a, neely1995a, nudurupati2011a, offen1997a, ogc2009a, omg2010a, pmi2013a, porter1996a, porter2008a, rombach1995a, rosemann2010a, sarcia2010a, schwaber2004a, selby2005a, shewhart1939a, trendowicz2011a, solingen1999b	mandić2010b, basili2010a, mandić2010a, mandić2010b, trendowicz2011a	oliveira2018a	
S47	cocozza2014a	36	6	11	4	1	0	basili2010a, münch2009a, mandić2010b, basili2007a, basili2014d, sarcia2010a, asghari2012a, jenkins2012a, chrissis2011a, basili2009a, mandić2010b	basili2010a, mandić2010b, basili2007a, mandić2010b	aoki2016a	

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S48	unterkalmsteiner2014a	36	5	95	4	4	0	kitchenham1996a, scacchi2001a, sjøberg2007a, wirth2008a, card2004a, coleman2007a, dybå2000a, canfora2006a, ferreira2008a, goldenson2003a, hyde2004a, mohagheghi2008a, murugappan2003a, redzic2006a, sommerville2005a, trienekens2001a, achatz2003a, salo2005b, jones1996a, briand1996a, paulish1994a, florac1999b, freeman1992a, abrahamsson2000a, dror2007a, iversen2006a, unterkalmsteiner2012a, gorschek2006d, unterkalmsteiner2011a, cmusei2011a, isoiec1998e, ares2000a, ekdahl2006a, fenton2001a, pulford1996a, kuntzmann1995a, paulk1993b, debou2000a, basili1984a, basili1994a, basili2007b, cmusei2010a, basili2010a, park1996a, goethert2004a, järvinen2000a, järvinen1999a, jarvinen1999a, mcgarry2002a, card2003c, isoiec2002b, bailey2003a, herbsleb1998a, berry2000a, kasunic2008a, umarji2009a, gorschek2008a, stålhane2004a, daskalaivtonakis1990a, comer1993a, niessink1998a, díaz2008a, lowy2004a, linberg1999a, zahran1998a, daskalantonakis1992a, ebert1999a, parkinson2010a, gorschek2004a, ivarsson2012a, ramil2001a, iversen2003a, solingen1999a, atkinson1999a, kerzner1995a, basili1995a, murugappan2000a, weiss2002a, moreau2003a, pearl1998a, solingen2004a, norreklit2000a, norreklit2000a, herbsleb1994a, savioja2007a, preston2000a, knapp1990a, stevens1946a, pfleeger1997a, seaman1999a, jenkins1997a, kvale1996a, kasunic2005a, salant1994a, wohlin2000a	murugappan2003a, debou2000a, basili2007b, basili2010a	unterkalmsteiner2016a, staron2016a, gorschek2015a, erukulapati2017a	

Study	Metakey	Visited	Steps	Total Backward	Selected Backward	Total Forward	Selected Forward	Backward List	Selected Backward List	Forward List	Selecte
S49	lepmets2014a	1	0	18	0	4	1	lepmets2014b, barafort2009a, lepmets2012a, lepmets2011a, mesquida2012a, boehm2004a, coleman2008a, dettmer2011a, kurtz2003a, snowden2007a, eisenhardt2000a, senge1990a, clarke2012b, mcbride2012a, shrestha2013a, jeners2013a, stallinger2011a, salo2007a		lepmets2016b, arnold2016a, kruger2016a, oConnor2015a	oC
S50	petersen2015a	36	6	57	8	11	0	ali2012a, ardimento2006a, baca2013a, basili2007a, basili2010a, basili1984a, boyd2002a, boyd2005a, briand1996a, brydon2003a, bühne2005a, basili1994a, colombo2003a, damm2006a, davis2006a, dieste2011a, finke2011a, gencel2013a, graham2009a, guest2006a, isoiec2002a, ivarsson2011a, iversen2004a, münch2013a, münch2013c, kaneko2011a, kaplan1996a, keele2007a, kilpl2001a, mandić2010f, mandić2010b, mandić2010c, mandić2010d, mcgarry2002a, mendonça2000a, jm1994a, mujtaba2011a, j2008a, offen1997a, park1996b, petersen2013a, petersen2009a, petersen2009b, petersen2010a, petersen2010b, petersen2011a, poppendieck2003a, runeson2009a, runeson2012a, sarcia2010a, scholtes2003a, tahir2011a, trendowicz2011a, linden2007a, latum1998a, wilson2002a, yin2011a	basili2007a, basili2010a, münch2013a, münch2013c, kaneko2011a, mandić2010b, mandić2010d, trendowicz2011a	petersen2014a, tahir2016a, trinkenreich2017a, lópez2016a, mandić2017a, roditi2014a, mughal2017a, li2017a, petersen2016a, trinkenreich2017b, minhas2017a	
S51	oConnor2015a	1	1	15	1	4	0	kurtz2003a, boehm2003c, coleman2008a, dettmer2011a, snowden2007a, lepmets2012a, salo2007a, paternoster2014a, thorpe2005a, pelrine2011a, hobcraft2015a, kim2015a, clarke2012b, samios2015a, lepmets2014a	lepmets2014a	lepmets2016a, arnold2016a, kruger2016a, górski2016a	