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A BIBLIOMETRIC ANALYSIS OF PUBLICATIONS ABOUT SLAVERY IN ADMINISTRATION AREA

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### A Bibliometric Analysis of Publications about Slavery in Administration Area

#### Abstract

Studies on the impact of slavery in the History of Management and on the managerial and organizational practices have been neglected. As some authors claim, various legitimatizes disciplines have contributed to the practice slavery labour and its instituitions. Since slavery labour had played a fundamental role in the economic and social life of countries in which this practice endured for centuries (USA and Brazil) it is agreeable to analyze the historical and social impact of slavery labor in management. For this reason, bibliometric analysis of publications administration research area that had the theme of slavery, using the VOS mapping technique. Findings of co-citation analysis indicate the most used references include History and Economy works. Co-citation analysis also indicates that most of used works deal with the social and economic impact of slavery labour in American society. Regarding the bibliographic analysis findings indicate that studies on slavery are drifting to different perspective. Debates are moving to analysis on contemporary slavery – sexual, child slavery, labor slavery in supply chain – basic levels of supply chain such as supply of raw material – and the relevance of studies on slavery on historic studies

Key words: Bibliometric analysis; Slavery; Management History; VOSviewer

### 1. Introduction

Having a historical perspective in the study of Management is fundamental since it helps acedemicians and practicioners to build a more holistic view of business and its rituals. Besides, analyzing the historical perspective of Management helps the academia to undertand the challenges of the present (Barros, 2015).

Literature on management history shows several studies regarding different ancient and pre-modern periods of management practice. However, we can see that researchers have not pointed to the period of slavery. As Cooke (2003, p. 1895) claim, the period of slavery "has been wrongfully excluded from histories of management". In the same perspective, Hayek, Novicevic, Humphreys, and Jones (2010) believe that there has been an obvious denial of slavery in Social Sciences.

Regardless the fact studies on the impact of slavery in Management History and on the managerial and organizational practices have been neglected (Cooke, 2003; Hayek et al., 2010), studying the impact of the period of slavery in Management History is fundamental as various disciplines – Management, Law, Accounting - have contributed to the practice of slavery labour and its instituitions (Hayek et al., 2010).

Besides that, management practice has inherited several characteristics of the period of slavery. In fact, Cooke, (2003, p. 1911) claims that "The empirical data demonstrate, therefore, that there was a substantial and growing group of people using what are now seen as management practices, who were known as managers, running antebellum plantations. What is also clear, and discomforting, is that white supremacist racismo underpinned the creation of the managerial identity".

Based on these arguments as well as on the importance of studies about the period of slavery - since slavery labour had played a fundamental role in the economic and social life of countries in which this practice endured for centuries (USA and Brazil) – I decided to conduct an agreeable analyzis on publications about the period of slavery labor in Management.

To achieve this objective, I conducted a bibliometric analysis of publications administration research area that had the theme of slavery, using the mapping technique VOS.

Findings of co-citation analysis indicate the most used references include History and Economy works. Co-citation analysis also indicates that most of used works deal with the social and economic impact of slavery labour in American society.

Debates are moving to analysis on contemporary slavery – sexual, child slavery, labor slavery in supply chain – basic levels of supply chain such as supply of raw material – and the relevance of studies on slavery on historic studies

Besides this introduction, this article presents the theoretical background on dynamic capabilities, a chapter describing the methodology adopted in this research, the analysis and discussion of research findings, and author's final considerations.

# 2. Theoretical Background

Researching the importance of slavery trade and labor is indeed relevant to administration research. Other areas of social sciences have invested on discusses and studies on this theme, as for examples accounting (Silva, 2013; 2014).

However, literature shows that the study on the influence of slavery on administration and organizational practices have been neglected since is slavery is theme that many prefer to overloook since it is not a positive portion of their History (Cooke, 2003. Hayek et al. 2010). In fact, we can infer that there has been a consistent denial of studying the influences and impact of the period of slavery on Management (Cooke, 2003; Hayek et al., 2010).

Despite this limitation on researches on Social Sciences, previous studies studies have shown that many aspects of organizational life such as paternalism and culturalism have been inherited from slavery structure of 18th and 19th centuries (Hayek et al., 2010; Willmott, 1993).

Paternalistic leadership refer to the a leadership style that has strong focus com discipline and authority combines with a fatherly and moral attitud (Hayek et al., 2010). A paternalis leader keeps this authority by demanding total agreement from his/her subordinates. In order to achieve this agreement – which is close to devotion -, leader show special consideration towards subordinates' personal affairs (Hayek et al., 2010). According to Hayek et al. (2010), this paternalistic leadership style has started in the period of slavery as lords and masters used this authoritarian and benevolent attitude to get the submission of their slaves and to avoid riots.

Another aspect of Management that has been inherited from the period of slavery is culturalism (Willmott, 1993). For Willmott (1993) when organizations strongly encougage their members to embrace their culture and values they are requenting members to take responsibility on how they relate to the organizations in which they are employed. Culturalism is used to develop the perception that employees' performance and behavior is highly tied to organization's objetive, which make employees see themselves to take the full responsibility for the success the relationsip organization-employee (Willmott, 1993). For Willmott (1993), corporate culturalism is another inheritance of the period of slavery in Management practices and organizational life.

For Cooke (2003, p. 1913), the influence of slavery on management can be recognized on the "ongoing dominance from that time of the very idea of the manager with a right to manage" as well as on the management practices which we now name as "classical management and scientific

## 3. Methodology

Bibliometrics is quantitative method used to analyze scientific production. (Vanz & Stumpf, 2010; Macias-Chapula, 1998). Bibliometric methods are appropriate to conduct systematic and reproducible literature review of previous researches in a specific field. Besides that, bibliometric methods provide very useful results that can lead researchers on the most influential publications in their fields (Zupic & Čater, 2015).

The five main bibliometric methods are: citation, co-citation, bibliographic coupling, co-author and co-word. Co-citation analysis uses co-citation counts to evaluate similarities between documents, authors or journals (Mccain, 1990). In this research, we used the mapping technique performed by VOSviewer software to perform the co-citation analysis and the bibliographic analysis of the publications extracted from WoS (van Eck, Waltman, Dekker, & Berg, 2010). The VOSviewer applied the VOS (Visualization of Similarities) mapping technique that is an alternative to the technique of multidimensional scaling (MDS) (Perianes-Rodriguez, Waltman, & van Eck, 2016).

To conduct this bibliometric analysis, we first extracted a list of all publications about slavery from WoS database (database maintained by Thomson Reuters). In this search process, we used the key words "slavery", "slave labour", "slave labor". The search results on WoS extrated 317 publications.

### 4. Analysis and discussion of results

As mentioned above we extracted 319 articles from WoS, including published articles, conference articles and editorials. Out out these 319 article, we focused the ones with at least 6 citations. We proceeded in this way, in order to improve the quality of the bibliographic and counting analysis. As we analyze these 107 articles, we note that most of articles were published after the 2000's. Figure 1 shows a graphic of distribution of publications through the decades.

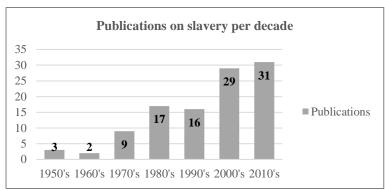


Figure 1: Distribution of publications on slavery aggregated by decade

The journals with more papers addressing the theme of slavery in Administration area are Journal of Economic History (15 publications), Explorations in Economic History (8 publications) and Economic History Review (5 publications). Even though the top three journals focus on Economic History, there are publications on journals in business and management area such as journal of Management Studies (3 publications), Journal of Management Studies (3 publications) and Supply Chain Management - An International Journal (2 publications).

As mentioned above, when generating the co-citation matrix, we selected the 55 most cited publications. As these are the most used references of the analyzed publications, we observed that most of these were published before 2000's -48 publications in total. Figure 2 shows a graphic of distribution of the most cited references through the decades.

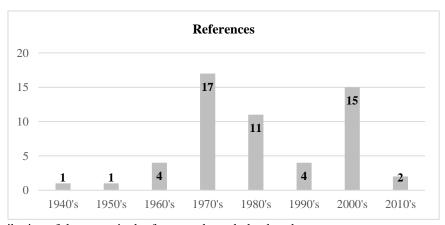


Figure 2: Distribution of the most cited references through the decades

As we analyze the network map of the co-citations generated by VOs, we see that these references were clustered into 6 clusters. Figure 3 illustrates the mapping and clustering of the 55 most used references in publications about slavery - appendix 2 shows the complete list of the 55 most cited references and their respective clusters.

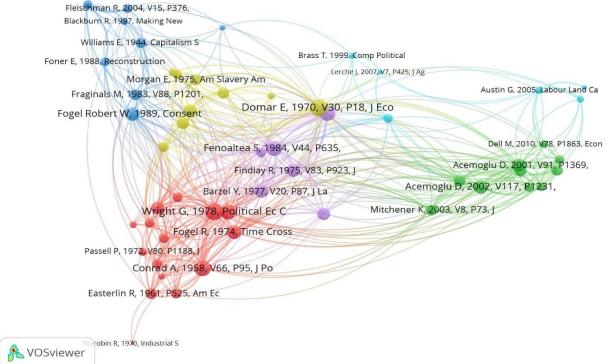


Figure 3: Mapping and clustering of the 55 most used references in publications about slavery

Cluster 1 aggregates publications about the History of slavery trade and slavery economy. In this cluster we find seminal works such as "Time on the Cross: The Economics of American Slavery" written by Fogel and Engerman (1974) and article The Economics of Slavery in the Ante Bellum South (Conrad & Meyer, 1958).

Cluster 2 aggregates publications about the institutions and their functionality in slavery economy. In this cluster we find more recent publications such as the articles "The structure of slave prices in New Orleans, 1804 to 1862" (Lagerlof, 2009) and "The Slave Trade and the Origins of Mistrust in Africa" (Nunn & Wantchekon, 2011).

Cluster 3 groups publications about how slavery was institutionalized and processed. These papers focused on the how the accounting, management and finances worked in slavery economy. Here we find papers that analyze the role of institutionalized processes on slavery legitimation such as "Accounting in service to racism: monetizing slave property in the antebellum South" (Fleischman & Tyson, 2004) and "The culpability of accounting practice in promoting slavery in the British Empire and antebellum United States" (Oldroyd, Fleischman, & Tyson, 2008).

Cluster 4 focuses on publications about the foundation and consequences of slavery in American economy and society. This clusters includes the books "Old South, New South: Revolutions in the Southern Economy since the Civil War" by Wright (1986) and "American Slavery, American Freedom" by Morgan (1975).

Cluster 5 groups publications that analyze the economic, social and managerial structure of slavery as well as how existing processes sustained the practice of slavery. This cluster includes the articles "Slavery and Supervision in Comparative Perspective: A Model" (Fenoaltea, 1984) and "On the Existence and Optimality of Competitive Equilibrium for a Slave Economy" (Bergstrom, 1971).

Finally, cluster 6 involves publication on slavery labor and the impact of this practice on the colonized African countries. Most of the works included in this cluster are book, including "Labour, Land and Capital in Ghana: From Slavery to Free Labour in Asante, 1807-

1956 (Rochester Studies in African History and the Diaspora)" by Austin (2005) and "Slavery and Colonial Rule in French West Africa (African Studies)" by Klein (1998).

We also analyzed the bibliographic and counting analisys performed by VOS software. With this analysis we intended to identify research trends on the theme of slavery in Administation area. Figure 4 illustrates the mapping and analyzis of bibliography according to the evolution of the citations through the years. The closer the color of the nets are of green and yellow, the newer are the citations of these publications. As we analyze this map, we can infer if debates on a specific are more prone to grow or decline.

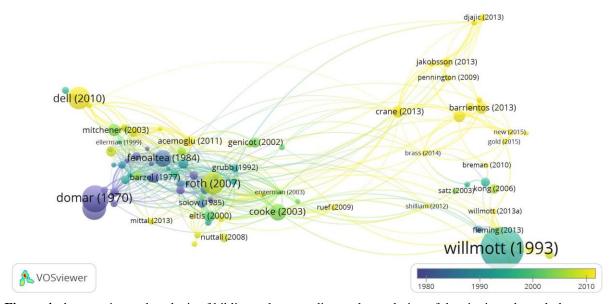


Figure 4: the mapping and analyzis of bibliography according to the evolution of the citations through the years

As we see in figure 4, the most greenish and yellowish clusters are clusters 2, 4, and 5 (Appendix 1 shows the complete list of references and their respective clusters. Cluster 2 groups 12 articles that involve 121 citations in total. Cluster 4 groups 10 articles which correspond to 689 citations (which infers that publications included in cluster 4 are the most cited. Finally, cluster 5 includes 9 articles with 167 citations in total.

Publications included in cluster 2 discuss the aspected of contemporary slavery that includes **sexual and erotic labor** - "What it feels like for a whore: The body politics of women performing erotic labour in Hong Kong" (Kong, 2006) – **child labor** – "Child labor: A normative perspective (Satz, 2003) – and the **modern slavery labor** that exists in the basic levels of **supply chain** of large companies – "Modern slavery challenges to supply chain management" (Gold, Trautrims, & Trodd, 2015) and "Modern slavery and the supply chain: the limits of corporate social responsibility?" (New, 2015).

Cluster 4 involves publications regarding the relevance and absence of studies about the influence of slavery labour in management practice. Some of these publication are "The denial of slavery in management studies" (Cooke, 2003), "Reflections on the darker side of conventional power analytics" (Willmott, 2013) and 'Down with Big Brother!' The End of 'Corporate Culturalism'? (Fleming, 2013).

In turn, cluster 5 includes publications that focus on modern slavery labour and human exploitation that affect less developed countries due to factors as forced immigration and economic and political crises. The publications include "Modern Slavery as a Management Practice: Exploring the Conditions and Capabilities for Human Exploitation" (Crane, 2013), "Modern day slavery: What drives human trafficking in Europe?" (Hernandez & Rudolph, 2015), and "Liquidity-constrained migrants" (Djajic & Vinogradova, 2014).

### 5. Conclusion

Studies on the impact of slavery in the History of Management and on the managerial and organizational practices have been neglected.

As some authors claim, various legitimatizes disciplines have contributed to the practice slavery labour and its instituitions (Silva 2013, 2014). Since slavery labour had played a fundamental role in the economic and social life of countries in which this practice endured for centuries (USA and Brazil) it is agreeable to analyze the historical and social impact of slavery labor in management.

For this reason, I conducted a bibliometric analysis of publications administration research area that had the theme of slavery, using the mapping technique VOS, using the VOSviewer software.

Findings of co-citation analysis indicate the most used references include History and Economy works. Co-citation analysis also indicates that most of used works deal with the social and economic impact of slavery labour in American society.

The bibliographic analysis indicates that studies on slavery are turning to different perspective. Debates are moving to analysis on contemporary slavery – sexual, child slavery, labor slavery in supply chain – basic levels of supply chain such as supply of raw material – and the relevance of studies on slavery on historic studies.

A limitation of this study is not performing a qualitative analysis of the works presented on the co-citation and bibliographic analysis performed using the VOSviewer. For this reason, I indicate for future studies conducting a systematic review of refereces and publications analyzed in this bibliometric study.

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Authors	Title	Source	Citations	Cluster
(Willmott, 1993)	Strength is ignorance - slavery is freedom - managing culture in modern organizations	Journal of management studies	503	4
(domar, 1970)	Causes of slavery or serfdom - hypothesis	Journal of economic history	200	6
(conrad & meyer, 1958)	The economics of slavery in the ante bellum south	Journal of political economy	147	6
(dell, 2010)	The persistent effects of peru's mining mita	Econometrica	141	1
(roth, 2007)	Repugnance as a constraint on markets	Journal of economic perspectives	133	9
(cooke, 2003)	The denial of slavery in management studies	Journal of management studies	80	4
(fenoaltea, 1984)	Slavery and supervision in comparative perspective - a model	Journal of economic history	78	8
(johnson, bardhi, & dunn, 2008)	Understanding how technology paradoxes affect customer satisfaction with self-service technology: the role of performance ambiguity and trust in technology	Psychology & marketing	46	
(crane, 2013)	Modern slavery as a management practice: exploring the conditions and capabilities for human exploitation	Academy of management review	41	5
(mitchener, mclean, 2003)	The productivity of us states since 1880	Journal of economic growth	41	1

Authors	Title	Source	Citations	Cluster
(eltis,engerman, 2000)	The importance of slavery and the slave trade to industrializing britain	Journal of economic history	38	3
(phillips, 2013)	Unfree labour and adverse incorporation in the global economy: comparative perspectives on brazil and india	Economy and society	35	5
(barzel, 1977)	Economic-analysis of slavery	Journal of law & economics	34	3
(acemoglu, wolitzky, 2011)	The economics of labor coercion	Econometrica	29	1
(chwe, 1990)	Why were workers whipped - pain in a principal-agent model	Economic journal	29	11
(kong, 2006)	What it feels like for a whore: the body politics of women performing erotic labour in hong kong	Gender work and organization	29	2
(carson, 2008)	The effect of geography and vitamin d on african american stature in the nineteenth century: evidence from prison records	Journal of economic history	28	8
(genicot, 2002)	Bonded labor and serfdom: a paradox of voluntary choice	Journal of development economics	28	1
(fogel & engerman, 1971)	Relative efficiency of slavery - comparison of northern and southern agriculture in 1860	Explorations in economic history	23	6
(jakobsson, & kotsadam, 2013)	The law and economics of international sex slavery: prostitution laws and trafficking	European journal of law and economics	23	5

Authors	Title	Source	Citations	Cluster
	for sexual exploitation			
(solow, 1985)	Caribbean slavery and british growth - the williams,eric hypothesis	Journal of development economics	23	3
(engerman, 1986)	Slavery and emancipation in comparative perspective - a look at some recent debates	Journal of economic history	22	3
(findlay,1975)	Slavery, incentives, and manumission - theoretical model	Journal of political economy	21	3
(galenson, 1981)	White servitude and the growth of black-slavery in colonial america	Journal of economic history	21	
(jones, 1956)	Slavery in the ancient world	Economic history review	21	
(lerche, 1995)	Is bonded labor a bound category - reconceptualizing agrarian conflict in india	Journal of peasant studies	21	2
(nuttall & manz, 2008)	A new energy security paradigm for the twenty-first century	Technological forecasting and social change	21	10
(lagerlof, 2009)	Slavery and other property rights	Review of economic studies	20	1
(pritchett, chamberlain, 1993)	Selection in the market for slaves - new-orleans, 1830- 1860	Quarterly journal of economics	20	6
(engerman, 1976)	Some economic and demographic comparisons of slavery in united-states and britishwest-indies	Economic history review	19	3
(knights, 2008)	Myopic rhetorics: reflecting epistemologically and ethically on the demand for	Academy of management learning & education	19	4

Authors	Title	Source	Citations	Cluster
	relevance in organizational and management research			
(yeoman & mars, 2012)	Robots, men and sex tourism	Futures	19	4
(fleming, 2013)	'Down with big brother!' the end of 'corporate culturalism'?	Journal of management studies	18	4
(acemoglu, garcia- jimeno, & robinson, 2012)	Finding eldorado: slavery and long- run development in colombia	Journal of comparative economics	18	1
(aufhauser, 1973)	Slavery and scientific management	Journal of economic history	18	3
(lebaron & ayers, 2013)	The rise of a "new slavery'? Understanding african unfree labour through neoliberalism	Third world quarterly	18	5
(sacerdote, 2005)	Slavery and the intergenerational transmission of human capital	Review of economics and statistics	18	1
(field, 2008)	The relative efficiency of slavery revisited - a translog production function-approach	American economic review	17	
(hu & shapley, 2003)	On authority distributions in organizations: controls	Games and economic behavior	17	
(rosefielde, 1981)	An assessment of the sources and uses of gulag forced labor 1929-56	Soviet studies	17	
(cole, 2005)	Capitalism and freedom: manumissions and the slave market in louisiana, 1725-1820	Journal of economic history	16	6

Authors	Title	Source	Citations	Cluster
(grubb, 1992)	Fatherless and friendless - factors influencing the flow of english emigrant servants	Journal of economic history	16	9
(hanes, 1996)	Turnover cost and the distribution of slave labor in anglo-america	Journal of economic history	16	7
(walker, 1986)	Racism, slavery, and free-enterprise - black entrepreneurship in the united-states before the civil-war	Business history review	16	7
(yeager, 1995)	Encomienda or slavery? The spanish crown's choice of labor organization in sixteenth-century spanish america	Journal of economic history	16	1
(crown & wheat, 1995)	State per-capita income convergence since 1950 - sharecroppings demise and other influences	Journal of regional science	15	1
(irwin, 1988	Exploring the affinity of wheat and slavery in the virginia piedmont	Explorations in economic history	15	9
(reedy & learmonth, 2011)	Death and organization: heidegger's thought on death and life in organizations	Organization studies	14	4
(fourie & van zanden, 2013)	Gdp in the dutch cape colony: the national accounts of a slave-based society	South african journal of economics	14	1
(wright, 1975)	Slavery and cotton boom	Explorations in economic history	14	6
(denhardt, 1987)	Images of death and slavery in organizational life	Journal of management	13	4

Authors	Title	Source	Citations	Cluster
(clarke, 1998)	Trade unions and the nonpayment of wages in russia	International journal of manpower	13	
(djajic & vinogradova, 2013)	Undocumented migrants in debt	Labour economics	13	5
(engerman, 1967)	Effects of slavery upon southern economy - review of recent debate	Explorations in entrepreneurial history	13	6
(stevens, 2004)	The ethics of the us business executive: a study of perceptions	Journal of business ethics	13	
(wheatcroft, 1983)	Towards a thorough analysis of soviet forced labor statistics	Soviet studies	13	
(grubb & stitt, 1994)	The liverpool emigrant servant trade and the transition to slave labor in the chesapeake, 1697-1707 - market adjustments to war	Explorations in economic history	12	9
(mittal & weingast, 2011)	Self-enforcing constitutions: with an application to democratic stability in america's first century	Journal of law economics & organization	12	7
(austin, 2007)	Labour and land in ghana, 1874-1939: a shifting ratio and an institutional revolution	Australian economic history review	11	1
(darity, 1992)	A model of original sin - rise of the west and lag of the rest	American economic review	11	3
(draper, 2008)	The city of london and slavery: evidence from the first dock companies, 1795- 1800	Economic history review	11	10

Authors	Title	Source	Citations	Cluster
(engerman, 1984)	Economic-change and contract labor in the british caribbean - the end of slavery and the adjustment to emancipation	Explorations in economic history	11	3
(pennington, ball, hampton, & soulakova, 2009)	The cross-national market in human beings	Journal of macromarketing	11	5
(coulomb, 1998)	Adam smith: a defence economist	Defence and peace economics	10	
(evers, 2006)	Expropriated from the hereafter: the fate of the landless in the southern highlands of madagascar	Journal of peasant studies	10	
(fleischman, oldroyd, tyson, &. 2011)	Plantation accounting and management practices in the us and the british west indies at the end of their slavery eras	Economic history review	10	10
(frantz, 2013)	Jordan's unfree workforce: state- sponsored bonded labour in the arab region	Journal of development studies	10	5
(mann, 2001)	The state, race, and 'wage slavery' in the forest sector of the pacific north-west united states	Journal of peasant studies	10	3
(meynhardt, chandler, & strathoff, 2016)	Systemic principles of value co- creation: synergetics of value and service ecosystems	Journal of business research	10	
(rose, 1989)	Biological consequences of segregation and economic deprivation - a post- slavery population	Journal of economic history	10	

Authors	Title	Source	Citations	Cluster
	from southwest arkansas			
(satz, 2003)	Child labor: a normative perspective	World bank economic review	10	2
(ruef & harness, 2009)	Agrarian origins of management ideology: the roman and antebellum cases	Organization studies	9	4
(craemer, 2009)	Framing reparations	Policy studies journal	9	10
(djajic & vinogradova, 2014)	Liquidity- constrained migrants	Journal of international economics	9	5
(fenske, 2012)	Land abundance and economic institutions: egba land and slavery, 1830-1914	Economic history review	9	1
(kapadia, 1995)	The profitability of bonded labor - the gem-cutting industry in rural south-india	Journal of peasant studies	9	2
(saraydar, 1964)	A note on the profitability of ante bellum slavery	Southern economic journal	9	7
(breman, 2010)	Neo-bondage: a fieldwork-based account	International labor and working-class history	8	2
(fuente, 2010)	From slaves to citizens? Tannenbaum and the debates on slavery, emancipation, and race relations in latin america	International labor and working-class history	8	10
(fatton, 2006)	Haiti: the saturnalia of emancipation and the vicissitudes of predatory rule	Third world quarterly	8	11

Authors	Title	Source	Citations	Cluster
(field, 1988)	Free and slave labor in the antebellum south - perfect substitutes or different inputs	Review of economics and statistics	8	8
(irwin, 1994)	Explaining the decline in southern per-capita output after emancipation	Explorations in economic history	8	
(robinson, 2002)	Race, gender, and familial status: discrimination in one us mortgage lending market	Feminist economics	8	2
(rosefielde, 1987)	Incriminating evidence - excess deaths and forced labor under stalin - a final reply to critics	Soviet studies	8	
(willmott, 2013)	Reflections on the darker side of conventional power analytics	Academy of management perspectives	8	4
(aufhauser, 1974)	Slavery and technological change	Journal of economic history	7	3
(conquest, 1982)	Forced labor statistics - some comments	Soviet studies	7	
(fenoaltea, 1981)	The slavery debate - a note from the sidelines	Explorations in economic history	7	11
(hernandez & rudolph, 2015)	Modern day slavery: what drives human trafficking in europe?	European journal of political economy	7	5
(mancall, rosenbloom, & weiss, 2002)	Agricultural labor productivity in the lower south, 1720-1800	Explorations in economic history	7	7

Authors	Title	Source	Citations	Cluster
(van der linden, 2010)	Re-constructing the origins of modern labor management	Labor history	6	4
(berlan, 2013)	Social sustainability in agriculture: an anthropological perspective on child labour in cocoa production in ghana	Journal of development studies	6	
(bertocchi &	Slavery, education,	European .	6	
dimico, 2014)	and inequality	economic review Journal of		
(bertocchi & dimico, 2012)	The racial gap in education and the legacy of slavery	comparative economics	6	1
(brass, 2014)	Debating capitalist dynamics and unfree labour: a missing link? - response to a special section on "dynamics of unfree labour in the contemporary global economy" guest edited by stephanie barrientos, uma kothari and nicola phillips	Journal of development studies	6	2
(burity, 2008)	Brazil's rise: inequality, culture and globalization	Futures	6	
(dougherty & heckelman, 2008)	Voting on slavery at the constitutional convention	Public choice	6	7
(ellerman, 1999)	The democratic firm: an argument based on ordinary jurisprudence	Journal of business ethics	6	3
(engerman, 2003)	Slavery, freedom, and sen	Feminist economics	6	2

Authors	Title	Source	Citations	Cluster
(fogel, 1975)	3 phases of cliometric research on slavery and its aftermath	American economic review	6	6
(gold, trautrims, & trodd, 2015)	Modern slavery challenges to supply chain management	Supply chain management-an international journal	6	2
(mani, agrawal, & sharma, 2015)	Social sustainability in the supply chain: analysis of enablers	Management research review	6	2
(miller, 1981)	The fabric of control - slavery in antebellum southern textile mills	Business history review	6	7
(new, 2015)	Modern slavery and the supply chain: the limits of corporate social responsibility?	Supply chain management-an international journal	6	2
(shilliam, 2012)	Forget english freedom, remember atlantic slavery: common law, commercial law and the significance of slavery for classical political economy	New political economy	6	2
(starr, 1958)	An overdose of slavery	Journal of economic history	6	11
(weiman, 1991)	Peopling the land by lottery - the market in public lands and the regional differentiation of territory on the georgia frontier	Journal of economic history	6	9

Appendix 2 – List of the analyzed cocitations clustered according to network analysis

Authors	Titlle	Type of Publication	Citations	Cluster
(Fogel & Engerman, 1974b)	Time on the Cross: The Economics of American Slavery	Book	57	1
(Conrad & Meyer, 1958)	The Economics of Slavery in the Ante Bellum South	Article	26	1
(Fogel & Engerman, 1980)	Explaining the Relative Efficiency of Slave Agriculture in the Antebellum South: Reply	Article	19	1
(Ransom & Sutch, 1977)	One Kind of Freedom: The Economic Consequences of Emancipation	Book	19	1
(Wright, 1978)	The Political Economy of the Cotton South: Households, Markets, and Wealth in the Nineteenth Century	Book	16	1
(Starobin, 1970)	The Economics of Industrial Slavery In the Old South	Article	15	1
(North, 1961)	Economic growth of the United States, 1790-1860	Book	9	1
(Anderson & Gallman, 1977)	Slaves as Fixed Capital: Slave Labor and Southern Economic Development	Article	7	1
(Easterlin, 1961)	Regional Income Trends, 1840-1950 in S. Harris (Ed) American Economic History	Book	7	1
(US. Bureau, 1975)	Bicentennial Edition: Historical Statistics of the United States, Colonial Times to 1970 September 1975	Book	7	1
(Gallman, 1970)	Self-Sufficiency in the Cotton Economy of the Antebellum South	Article	6	1
(Higgs, 1977)	Competition and Coercion Blacks in the American economy 1865-1914	Book	6	1
(Kotlikoff, 1979)	THE STRUCTURE OF SLAVE PRICES IN NEW ORLEANS, 1804 TO 1862	Article	6	1
(Passell & Wright, 1972)	The Effects of Pre-Civil War Territorial Expansion on the Price of Slaves	Article	5	1
(Yasuba, 1961)	The Profitability and Viability of Plantation Slavery in fhe United States	Article	5	1
(Acemoglu et al., 2001)	The Colonial Origins of Comparative Development: An Empirical Investigation	Article	9	2
(Acemoglu et al., 2002)	Reversal of Fortune: Geography and Institutions in the Making of the Modern World Income Distribution	Article	9	2

	The Long-term Effects of			
(Nunn, 2008)	Africa's Slave Trades	Article	7	2
(Sokoloff & Engerman, 2000)	Institutions, Factor Endowments, and Paths of Development in the New World	Article	7	2
(Dell, 2010)	The Persistent Effects of Peru's Mining Mita	Article	6	2
(Galor et al., 2009)	Inequality in Landownership, the Emergence of Human- Capital Promoting Institutions, and the Great Divergence	Article	6	2
(Lagerlof, 2009)	THE STRUCTURE OF SLAVE PRICES IN NEW ORLEANS, 1804 TO 1862	Article	6	2
(MitchenerIan & McLean, 2003)	The Productivity of US States since 1880	Article	6	2
(Hall & Jones, 1999)	Why do Some Countries Produce So Much More Output Per Worker than Others?	Article	5	2
(Nunn & Wantchekon, 2011)	The Slave Trade and the Origins of Mistrust in Africa	Article	5	2
(Fogel, 1989)	Without Consent or Contract: The Rise and Fall of American Slavery (Norton Paperback)	Book	21	3
(Williams, 1944)	Capitalism and Slavery	Book	12	3
(Fleischman & Tyson, 2004a)	Accounting in service to racism: monetizing slave property in the antebellum South	Article	9	3
(Cooke, 2003)	The Denial of Slavery in Management Studies	Article	8	3
(Fleischman & Tyson, 2004b)	Accounting in service to racism: monetizing slave property in the antebellum South	Article	7	3
(Foner, 1988)	Reconstruction: America's Unfinished Revolution, 1863 - 1877	Book	7	3
(Blackburn, 1997)	The Making of New World Slavery	Book	5	3
(Fraginals et al., 1983)	The Level and Structure of Slave Prices on Cuban Plantations in the Mid- Nineteenth Century: Some Comparative Perspectives	Article	5	3
(Oldroyd et al., 2008)	The culpability of accounting practice in promoting slavery in the British Empire and antebellum United States.  Critical Perspectives on Accounting 19(5): 764–784.	Article	5	3

(Domar, 1970)	The Causes of Slavery or Serfdom: A Hypothesis	Article	18	4
(Wright, 1986)	Old South, New South: Revolutions in the Southern Economy since the Civil War	Book	12	4
(Fogel & Engerman, 1974a)	Philanthropy at Bargain Prices: Notes on the Economics of Gradual Emancipation	Article	9	4
(Curtin, 1969)	The Atlantic Slave Trade - A Census	Book	8	4
(Galenson, 1981)	White Servitude and the Growth of Black Slavery in Colonial America	Article	8	4
(McCusker & Menard, 1985)	The Economy of British America, 1607-1789	Book	8	4
(Engerman, 1983)	Contract Labor, Sugar, and Technology in the Nineteenth Century	Article	5	4
(Galenson, 1984)	The Rise and Fall of Indentured Servitude in the Americas: An Economic Analysis	Article	5	4
(Morgan, 1975)	American Slavery, American Freedom	Book	5	4
(Fenoaltea, 1984)	Slavery and Supervision in Comparative Perspective: A Model	Article	12	5
(Patterson, 1982)	Slavery and Social Death: A Comparative Study	Book	10	5
(Findlay, 1975)	Slavery, Incentives, and Manumission: A Theoretical Model	Article	9	5
(Barzel, 1977)	An Economic Analysis of Slavery	Article	8	5
(Genovese, 1974)	Roll, Jordan, Roll: The World the Slaves Made	Book	8	5
(Bergstrom, 1971)	On the Existence and Optimality of Competitive Equilibrium for a Slave Economy	Article	7	5
(Austin, 2005)	Labour, Land and Capital in Ghana: From Slavery to Free Labour in Asante, 1807-1956 (Rochester Studies in African History and the Diaspora)	Book	6	6
(Brass, 1999)	Towards a Comparative Political Economy of Unfree Labour: Case Studies and Debates.	Book	6	6
(Klein, 1998)	Slavery and Colonial Rule in French West Africa (African Studies)	Book	6	6
(Genicot, 2002)	Bonded labor and serfdom: a paradox of voluntary choice	Article	5	6
(Getz, 2004)	Slavery and Reform in West Africa: Toward Emancipation in Nineteenth-Century Senegal and the Gold Coast	Book	5	6

(Lerche, 2007)	A Global Alliance against Forced Labour? Unfree Labour, Neo-Liberal Globalization and the International Labour Organization	Article	5	6	
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