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The Quest for the Governing Machine

The Rationality of Governance and the Governance of Irrationality

Présenté et sountenu par :

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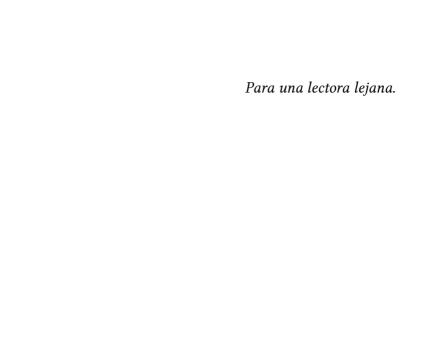


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CONTENTS

Acknowledgements i

Preface v	
PREPARATORY RESEARCH	1
First Sifting 3 [0/17] Key text 3 [0/23] Important text 17 [0/23] Ancillary text 33 [0/23] Boundary text 49	
Draft: Framework 67 Main question 67 Thesis Outline 67	

Scope and interrelations 68 Research hypotheses. 71

Debates & Controversies 81

Methodology 75 Keywords 78

Axes d'interpretation 84 Bibliography 87

ACKNOWLEDGEMENTS

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PREFACE

Even when applying different techniques of interpretation to texts, I have tried to understand how the circumstances of their production could inform their interpretation. Even just for the sake of consistency, shouldn't I apply the same standard to this Master's thesis? Shouldn't I provide the reader with the tools, the context, etc. that informed this research?

Pace Barthes, the author of these words is very alive. Knowing the tragedy of my country, one might ask me: Why do I wield the pen, as the Colombian fields bleed? Why not wield the sword? Or, perhaps, why not wield both? This text was written, certainly, to satisfy an earthly requirement: to obtain a Master's degree. But beyond that, what is the interest of writing for me?

Although this thesis is not a political pamphlet, it is grounded in political perplexities. To the recule of the state, who not only does not want to fund nor organize vast sections of economic activities, my generations witnesses a strange mix of "innovation", "entrepreneurship", and . If the political Left, of my parent's generation had an iron faith in the working class and the peasants to change society, today's

politically dissafected youth has all hopes in private enterprise to solve the evils of the world.

As Oscar Wilde once remarked, "it is easier to have sympathy with suffering, than it is to have sympathy with thought". Even thought,

As much as this document is intended to an academic audience, it is also intended to them and to my father: This is the beginning of a lifelong attempt to explain ¿Cómo fue que se jodio el país?

Should they be right, this article is wrong.

Part PREPARATORY RESEARCH

FIRST SIFTING

Subject-matter Lorem ipsum dolor sit amet

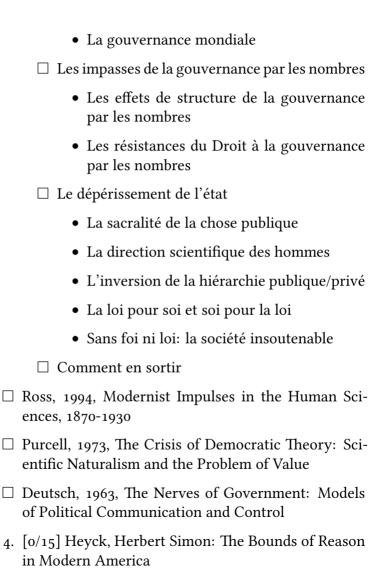
[0/17] KEY TEXT

1.	1/10] Solovey, Cold War Social Science: Knowledg Production, Liberal Democracy, and Human Nature	
	☐ Solovey, Cold War Social Science: Specter, Reality, or Useful Concept?	3 -
	☐ Tolon, Futures Studies: A New Social Science Rooted in Cold War Strategic Thinking	e
	☐ Isaac, Epistemic Design: Theory and Data in Havard's Department of Social Relations	ır-
	☐ Cravens, Column Right, March! Nationalism Scientific Positivism, and the Conservative Turn of the American Social Sciences in the Cold Wa Era	n

	Brick, Neo-Evolutionist Anthropology, the Cold War, and the Beginnings of the World Turn in U.S. Scholarship
	Jones-Imhotep, Maintaining Humans
	Bycroft, Psychology, Psychologists, and the Creativity Movement: The Lives of Method Inside and Outside the Cold War
	Weidman, An Anthropologist on TV: Ashley Montagu and the Biological Basis of Human Nature, 1945–1960
	Vicedo, Cold War Emotions: Mother Love and the War over Human Nature
2.	 Jamie, The Open Mind: Cold War Politics and Sciences of Human Nature
	Democratic Minds for a Complex Society
	Scientists as the Model of Human Nature
	Insituting Cognitive Science
	Cognitive Theory and the Making of Liberal Americans
	A Fractured Politics of Human Nature
	er, 1955, Toward a general theory for the behavsciences

3. [0/10] Supiot, 2012, La gouvernance par les nombres ☐ En quête de la machine à gouverner • Poétique du gouvernement • L'homme machine • Du gouvernement à la gouvernance ☐ Les aventures d'un idéal: le règne de la loi • Le nomos grec • La *lex* en droit romain La révolution gregorienne • Common Law et droit continental • La tradition juridique occidental ☐ Le rêve de l'harmonie par le calcul • Les accords parfaits du nombre • La fonction instituante de la discorde ☐ L'essor des usages normatifs de la quantification • Rendre compte Administrer Juger

- Légiférer
- ☐ L'asservissement de la Loi au Nombre: du Gosplan au Marché total
 - Le renversement du règne de la loi
 - Le droit, outil de planification
 - L'hybridation du communisme et capitalisme
- ☐ Calculer l'incalculable: la doctrine Law and Economics
 - La théorie des jeux
 - La théorie de l'agence
 - Le théorème de Coase et la théorie des property rights
 - La New Comparative Analysis et le marché du droit
- ☐ La dynamique juridique de la gouvernance par les nombres
 - La gouvernance individuelle
 - La gouvernance de l'entreprise
 - La gouvernance étatique
 - La gouvernance européenne



\square Unbounded rationality
\Box The garden of forking paths
$\hfill\Box$ The Chicago school and the sciences of control
$\hfill \square$ Mathematics, logic, and the sciences of choice
☐ Research and reform
\square <i>Homo administrativus</i> , or Choice under control
☐ Decisions and revisions
☐ Structuring his environment
\square Islands of theory
\square A new model of mind and machine
\Box The program <i>is</i> the theory
\square The cognitive revolution
\square <i>Homo adaptativus</i> , the Finite problem solver
\square Scientist of the artificial
\Box The expert problem solver
5. [o/8] Heyck, Age of System: Understanding the development of modern social science
☐ The Organizational Revolution and the Human Sciences

	☐ High modern social science: A bird's eye view
	☐ Patrons of the revolution: Ideas, Ideals, and Institutions in Postwar Social Science
	\square The magical year 1956, plus or minus one
	☐ Producing reason
	☐ Modernity and social change in American social science
	☐ A model science?
	\square History and Legacy, Tree and the Web
	Heyck, Mind and Network
	Heyck, Georges Miller, language, and the computer metaphor of mind
	Heyck, Defining the Computer: Herbert Simon and the Bureaucratic Mind, Part 1
	Heyck Defining the Computer: Herbert Simon and the Bureaucratic Mind, Part 2
6.	[o/5] Ronald Kline, The Cybernetics Moment
	\square War and Information Theory
	\square The Cybernetics Craze
	\square The Information Bandwagon

☐ Machines as Humans
☐ Humans as Machines
7. [o/4] Maas, William Stanley Jevons and the Making of Modern Economics
$\hfill\Box$ The Prying Eyes of the Natural Scientist
\square Engines of Discovery
 Babbage and his calculating engines
 God is a programmer
 An intelligent machine
• Is the mind a reasoning machine?
\square The Machinery of the Mind
• The Logical Abacus
• The Logical Machine
• The machine of the mind
 Induction - the inverse of deduction
 To decide what things are similar
\square The Image of Economics
 Bridging the natural and the social
 Mechanical dreams

- Economics as natural science
- 8. [1/8] Mirowski, Machine Dreams ⊠ Rooms with a view \boxtimes Where the cyborgs are ☐ The natural sciences and the history of economics □ The new automaton theatre ☐ Some Cyborg Genealogies; or How the Demon Got Its Bots ☐ The little engines that could've ☐ Adventures of a red-hot demon □ Cybernetics The devil that made us do it The advent of complexity ☐ John von Neumann and the Cyborg Incursion into Economics

Economics at one remove

	Purity
	Impurity
	Wordliness
	Military, the Scientist, and the Revised Rules ne Game
	What did you do in the war, daddy?
	The cybord character of science mobilization in the WWII
	Operations Research
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Do	Cyborgs Dream of Efficient Markets?
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	On the Impossibility of a Democratic Computer
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	Previews of Cunning Abstractions

	Its a World Eat World Dog: Game Theory at RAND
	The High Cost of Information in Postwar Neoclassical Theory
	Rigor Mortis in the First Casualty of War
	Does the Rational Agent Compute?
Cor	e Wars
	Inhuman, All Too Inhuman
	Herbert Simon: Simulacra vs Automata
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	Five Alternative Scenarios for the Future of Computational Economics
	They Hayek Hypothesis and Experimental Economics
	Gode and Sunder Go Roboshoppin
	Contingency, Irony, and Computation

9.	[o/17 tion	7] Mirowski, The Knowledge We Lost in Informa-
		It's not Rational
		The Standard Narrative and the Bigger Picture
		Natural Science Inspirations
		The Nobels and the Neoliberals
		The Socialist Calculation Controversy as the Starting Point of the Economics of Information
		Hayek Changes his Mind
		The Neoclassical Economics of Information Was Incubated at Cowles
		Three Different Modalities of Information in Neoclassical Theory
		Going the Market One Better
		The History of Markets and the Theory of Market Design
		The Walrasian School of Design
		The Bayes-Nash School of Design
		The Experimentalist School of Design
		Hayek and the Schools of Design

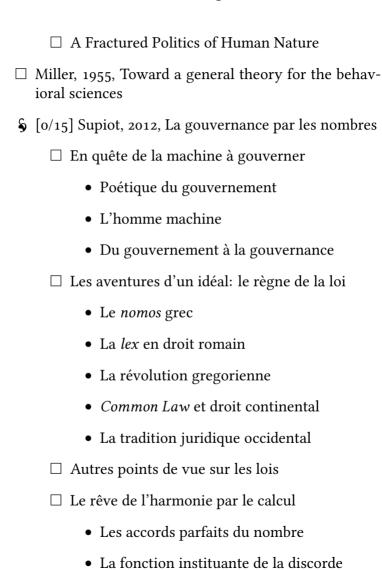
	☐ Designs on the tions	e Market: The FCC Spectrum Auc-
	☐ Private Intelle TARP	ectuals and Public Perplexity : The
	☐ Artificial Ign	orance
10.	[2/4] Backhouse, N ology	ew Directions in Economic Method
	☐ McCloskey, I and Why	How to Do a Rhetorical Analysis,
	☐ Lawson, A Re	ealist Theory for Economics
	⊠ Mirowski, W	hat are the Questions?
	⊠ Henderson, N	Metaphor and Economics
		nsocial social science: Economics Disciplines Since 1945
11.	[0/3] Backhouse, T since 1945	hey History of the Social Sciences
	☐ Ash, Psychol	ogy
	☐ Backhouse, E	conomics
	☐ Bevir, Politica	al Science
	Gigerenzer, Mind a	as Computer: Birth of a Metaphor
	Marshall, Minds, N	Machines and Metaphors

	Vicedo, Cold War emotions: The war over human nature	
12.	[0/1] Dupuy, Aux origines des sciences cognitives	
	Chomsky, The Cold War & the University: Toward an Intellectual History of the Postwar Years	
	Mikulark, "Cybernetics and Marxism-Leninism" in The Social Impact of Cybernetics, ed. Charles Dechert	
	Israel, Meccanicismo	
	Israel, La machina vivente: contre le visione meccanicistiche del uomo	
	Edwards, 1996, The Closed World: Computers and the Politics of Discourse in Cold War America	
13.	[o/9] Amadae, Rationalizing Capitalist Democracy: The Cold War Origins of Rational Choice Liberalism	
	☐ Managing the National Securtity State: Decision Technologies and Policy Science	
	$\hfill \square$ Arrow's Social Choice and Individual Values	
	\square Buchanan and Tullocks' Public Choice Theory	
	\square Riker's Positive Political Theory	
	☐ Rational Choice and Capitalist Democracy	

	Adam Smith's System of Natural Liberty			
	Rational Mechanics, Marginalist Economics, and Rational Choice			
	Consolidating Rational Choice Liberalism 1970- 2000			
	From the Panopticon to the Prisoner's Dilemma			
[0/23] important text				
§ [1/11] Solovey, Cold War Social Science: Knowledge Production, Liberal Democracy, and Human Nature				
	Solovey, Cold War Social Science: Specter, Reality, or Useful Concept?			
	Tolon, Futures Studies: A New Social Science Rooted in Cold War Strategic Thinking			
	Martin-Nilsen, "It Was All Connected": Com-			
	puters and Linguistics in Early Cold War America			

⊠ Heyck, Producing Reason

	Cravens, Column Right, March! Nationalism, Scientific Positivism, and the Conservative Turn of the American Social Sciences in the Cold War Era
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 - La théorie de l'agence
 - Le théorème de Coase et la théorie des *property rights*
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• Le compromis Fordiste • La déconstruction du droit du travail • Les voies d'un nouveau compromis ☐ De l'échange quantifié à l'allégeance des personnes • La mobilisation totale au travail • Les nouveaux droits attachés à la personne ☐ La structure des liens d'allégeance • L'allégeance dans les réseaux d'entreprises • L'allégeance des multinationales aux États impériaux ☐ Comment en sortir ☐ Hughes, 1958, Consciousness and Society: The Reorientation of European Social Thought, 1890-1930 ☐ Ross, 1994, Modernist Impulses in the Human Sciences, 1870-1930 ☐ Purcell, 1973, The Crisis of Democratic Theory: Scientific Naturalism and the Problem of Value ☐ Butsch, 2008, The Citizen Audience: Crowds, Publics,

and Individuals

	Deutsch, 1963, The Nerves of Government: Models of Political Communication and Control
	Cohen-Cole, 2009, The Creative American: Cold War salons, social science, and the cure for modern society.
Ş	$\left[\text{O}/\text{15} \right]$ Heyck, Herbert Simon: The Bounds of Reason in Modern America
	\square Unbounded rationality
	\square The garden of forking paths
	$\hfill\Box$ The Chicago school and the sciences of control
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	\square Research and reform
	\square <i>Homo administrativus</i> , or Choice under control
	☐ Decisions and revisions
	☐ Structuring his environment
	\square Islands of theory
	\square A new model of mind and machine
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	\square War and Information Theory
	☐ Circular Causality
	☐ The Cybernetics Craze
	\square The Information Bandwagon
	☐ Machines as Humans
	☐ Humans as Machines
	☐ Cybernetics in Crisis
	☐ Inventing an Information Age
	☐ Two Cybernetic Frontiers
§	[o/1] Koyré, Études d'histoire de la pensée philosophique
	☐ Les philosophes et la machine
	• L'appreciation du machinisme
	• Les origines du machinisme
Ş	[o/5] Maas, William Stanley Jevons and the Making of Modern Economics
	☐ The Prying Eyes of the Natural Scientist

- ☐ Engines of Discovery
 - Babbage and his calculating engines
 - God is a programmer
 - An intelligent machine
 - Is the mind a reasoning machine?
- \square The Machinery of the Mind
 - The Logical Abacus
 - The Logical Machine
 - The machine of the mind
 - Induction the inverse of deduction
 - To decide what things are similar
- ☐ The Laws of Human Enjoyment
 - The factory system and the division of labor
 - Ruskin's aesthetic-driven criticism of the factory system
 - Mill and the gospel of work
 - Work and fatigue
- ☐ The Image of Economics

- Bridging the natural and the social
- Mechanical dreams
- Economics as natural science

Ş	[o/8] Mirowski, Machine Dreams
	☐ Cyborg Agonists
	\square Rooms with a view
	\square Where the cyborgs are
	☐ The natural sciences and the history of economics
	☐ Anatomy of a cyborg
	☐ Attack of the cyborgs
	\Box The new automaton theatre
	☐ Some Cyborg Genealogies; or How the Demon Got Its Bots
	\Box The little engines that could've
	☐ Adventures of a red-hot demon
	\Box Cybernetics
	$\hfill\Box$ The devil that made us do it
	\Box The advent of complexity

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	Economics at one remove
	Purity
	Impurity
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	Operations Research
	The Ballad of Hotelling and Schultz
	SRG, RAND, Rad Lab
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	Gode and Sunder Go Roboshoppin

	$\hfill\Box$ Contingency, Irony, and Computation
	Mirowski, More Heat than Light
	Mirowski, Against Mechanism
Ş	[o/17] Mirowski, The Knowledge We Lost in Information
	☐ It's not Rational
	$\hfill\Box$ The Standard Narrative and the Bigger Picture
	☐ Natural Science Inspirations
	\square The Nobels and the Neoliberals
	☐ The Socialist Calculation Controversy as the Start ing Point of the Economics of Information
	\square Hayek Changes his Mind
	☐ The Neoclassical Economics of Information Was Incubated at Cowles
	☐ Three Different Modalities of Information in Neo- classical Theory
	\square Going the Market One Better
	$\hfill\Box$ The History of Markets and the Theory of Market Design
	\square The Walrasian School of Design

		The Bayes-Nash School of Design
		The Experimentalist School of Design
		Hayek and the Schools of Design
		Designs on the Market: The FCC Spectrum Auctions
		Private Intellectuals and Public Perplexity : The TARP
		Artificial Ignorance
Ş	[2/4] olog	Backhouse, New Directions in Economic Methody
		McCloskey, How to Do a Rhetorical Analysis, and Why
		Lawson, A Realist Theory for Economics
	\boxtimes	Mirowski, What are the Questions?
	\boxtimes	Henderson, Metaphor and Economics
		house, The unsocial social science: Economics Neighboring Disciplines Since 1945
Ş		Backhouse, They History of the Social Sciences
		Ash, Psychology
		Backhouse, Economics

	\square Bevir, Political Science
	Gigerenzer, Mind as Computer: Birth of a Metaphor
	Marshall, Minds, Machines and Metaphors
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	Israel, La machina vivente: contre le visione meccanicistiche del uomo
	Edwards, 1996, The Closed World: Computers and the Politics of Discourse in Cold War America
Ş	[o/9] Amadae, Rationalizing Capitalist Democracy: The Cold War Origins of Rational Choice Liberalism
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[0/23] ANCILLARY TEXT
§ [1/11] Solovey, Cold War Social Science: Knowledge Production, Liberal Democracy, and Human Nature
☐ Solovey, Cold War Social Science: Specter, Reality, or Useful Concept?
☐ Tolon, Futures Studies: A New Social Science Rooted in Cold War Strategic Thinking

puters and Linguistics in Early Cold War Amer-

ica

		Isaac, Epistemic Design: Theory and Data in Harvard's Department of Social Relations
	\boxtimes	Heyck, Producing Reason
		Cravens, Column Right, March! Nationalism, Scientific Positivism, and the Conservative Turn of the American Social Sciences in the Cold War Era
		Brick, Neo-Evolutionist Anthropology, the Cold War, and the Beginnings of the World Turn in U.S. Scholarship
		Jones-Imhotep, Maintaining Humans
		Bycroft, Psychology, Psychologists, and the Creativity Movement: The Lives of Method Inside and Outside the Cold War
		Weidman, An Anthropologist on TV: Ashley Montagu and the Biological Basis of Human Nature, 1945–1960
		Vicedo, Cold War Emotions: Mother Love and the War over Human Nature
§		Jamie, The Open Mind: Cold War Politics and Sciences of Human Nature
		Democratic Minds for a Complex Society
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		Insituting Cognitive Science
		Cognitive Theory and the Making of Liberal Americans
		A Fractured Politics of Human Nature
		r, 1955, Toward a general theory for the behavsciences
Ş	[o/15] Supiot, 2012, La gouvernance par les nombres
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	Deutsch, 1963, The Nerves of Government: Models of Political Communication and Control
	Cohen-Cole, 2009, The Creative American: Cold War salons, social science, and the cure for modern society.
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	Heyck, Defining the Computer: Herbert Simon and the Bureaucratic Mind, Part 1
	Heyck Defining the Computer: Herbert Simon and the Bureaucratic Mind, Part 2
Ş	[o/9] Ronald Kline, The Cybernetics Moment
	\square War and Information Theory
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	☐ Humans as Machines
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	\square Inventing an Information Age
	\square Two Cybernetic Frontiers
Ş	[0/1] Koyré, Études d'histoire de la pensée philosophique
	\square Les philosophes et la machine
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§ [0/5] Maas, William Stanley Jevons and the Making of Modern Economics

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Ş	[2/4] olog	Backhouse, New Directions in Economic Method y
		McCloskey, How to Do a Rhetorical Analysis, and Why
		Lawson, A Realist Theory for Economics
	\boxtimes	Mirowski, What are the Questions?
	\boxtimes	Henderson, Metaphor and Economics
		house, The unsocial social science: Economics Neighboring Disciplines Since 1945

\$	[0/3] Backhouse, They History of the Social Sciences since 1945
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[0/23] boundary text

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 $\hfill\Box$ Tolon, Futures Studies: A New Social Science Rooted in Cold War Strategic Thinking

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DRAFT: FRAMEWORK

MAIN QUESTION

This thesis will study the influence of the brain-computer metaphor in Herbert Simon's concept of rationality.

THESIS OUTLINE

Introduction: What to Make of Metaphors in Economics?

This section will introduce the topic of metaphors in economics.

The Genealogy of the Brain Computer Metaphor in Simon's Work.

The Influence of the Brain-Computer Metaphor in Simon's Concept of Rationality.

Conclusion

SCOPE AND INTERRELATIONS

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RESEARCH HYPOTHESES.

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METHODOLOGY

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KEYWORDS

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DEBATES & CONTROVERSIES

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AXES D'INTERPRETATION

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BIBLIOGRAPHY

I have separated the bibliography according to the big themes of the thesis.

The Brain

- Casey, Gerard and Aidan Moran (1989). "The Computational Metaphor and Cognitive Psychology". In: *Irish Journal of Psychology* 10.2, pp. 143–161.
- Crowther-Heyck, Hunter (1999). "George A. Miller, Language, and the Computer Metaphor of Mind". In: *History of Psychology* 2.1, pp. 37–64.
- Marshall, John (1977). "Minds, Machines and Metaphors". In: *Social Studies of Science* 7.4, pp. 475–488.

The Cold War

- Heyck, Hunter (2012). "Producing Reason". In: *Cold War Social Science: Knowledge Production, Liberal Democracy, and Human Nature.* Ed. by Mark Solovey and Hamilton Cravens. New York: Palgrave Macmillan. Chap. 6, pp. 99–116.
- (2014). "The Organizational Revolution and the Human Sciences". In: *Isis* 105.1, pp. 1–31.
- Jones-Imhotep, Edward (2012). "Maintaining Humans". In: *Cold War Social Science: Knowledge Production, Liberal Democracy, and Human Nature.* Ed. by Mark Solovey and Hamilton Cravens. New York: Palgrave Macmillan. Chap. 10, pp. 175–195.

- Rohde, Joy et al. (2012). *Cold War Social Science: Knowledge Production, Liberal Democracy, and Human Nature.* Ed. by Mark Solovey and Hamilton Cravens. New York: Palgrave Macmillan.
- Weidman, Nadine (2012). "An Anthropologist on TV: Ashley Montagu and the Biological Basis of Human Nature, 1945-1960". In: Cold War Social Science: Knowledge Production, Liberal Democracy, and Human Nature. Ed. by Mark Solovey and Hamilton Cravens. New York: Palgrave Macmillan. Chap. 12, pp. 215–232.

The Computer

- Campbell-Kelly, Martin et al. (2014). *Computer: A History of the Information Machine*. Westview Press.
- Dasgupta, Subrata (2014). *It Began with Babbage: The Genesis of Computer Science*. Oxford University Press.
- Edwards, Paul (1997). The Closed World: Computers and the Politics of Discourse in Cold War America. Cambridge: MIT Press.
- Gigerenzer, Gerd and Daniel G. Goldstein (1996). "Mind as Computer: Birth of a Metaphor". In: *Creativity Research Journal* 9.2, pp. 131–144.
- Heyck, Hunter (2008a). "Defining the Computer: Herbert Simon and the Bureaucratic Mind-Part 2". In: *Annals of the History of Computing, IEEE* 30.2, pp. 52–63.

- Heyck, Hunter (2008b). "Defining the Computer: Herbert Simon and the Bureaucratic Mind-Part 2". In: *Annals of the History of Computing, IEEE* 30.2, pp. 52–63.
- Lévy, Pierre (1992). *La machine univers: Création et culture informatique*. Points-Sciences. Seuil.
- Mirowski, Philip (2002). *Machine Dreams: Economics Becomes a Cyborg Science*. Cambridge University Press.

Metaphors

- Hodgson, Geoffrey et al. (1994). *Natural Images in Economic Thought: "Markets Read in Tooth & Claw"*. Ed. by Philip Mirowski. Cambridge University Press.
- Mayr, Otto (1989). Authority, Liberty and Automatic Machinery in Early Modern Europe. Johns Hopkins University Press.
- Riskin, Jessica (2003). "The Defecating Duck, or, the Ambiguous Origins of Artificial Life". In: *Source: Critical Inquiry* 29.4, pp. 599–633.
- Schaffer, Simon (1994). "Babbage's Intelligence: Calculating Engines and the Factory System". In: *Critical Inquiry* 21.1, pp. 203–227.
- (1999a). "Enlightened Automata". In: The Sciences in Enlightened Europe. Ed. by Jan Golinski, William Clark, and Simon Schaffer. Chicago: University of Chicago Press. Chap. 5.
- Thompson, Edward (1967). "Time, Work-Discipline, and Industrial Capitalism". In: *Past & Present* 38, pp. 56–97.

Herbert Simon

- Heyck, Hunter (2005). *Herbert Simon: The Bounds of Reason in Modern America*. Baltimore: Johns Hopkins University Press.
- Simon, Herbert (1965). *The Shape of Automation for Men and Management*. New York: Harper & Row Publishers.
- (1990). "Invariants of Human Behavior". In: *Annual Review of Psychology* 41, pp. 1–19.
- (1996). *The Sciences of the Artificial*. 3rd ed. Cambridge: MIT Press.
- Simon, Herbert and Allen Newell (1958). "Heuristic Problem Solving: The Next Advance in Operations Research". In: *Operations Research* 6.1, pp. 1–10.

The Social Sciences

- Backhouse, Roger, Philippe Fontaine, et al. (2010). *The History of the Social Sciences since 1945*. Ed. by Roger Backhouse and Philippe Fontaine. Cambridge University Press.
- Dupuy, Jean-Pierre (2005). Aux origines des sciences cognitives. Poches Sciences. La Découverte.
- Miller, James G. (1955). "Toward a General Theory for the Behavioral Sciences". In: *American Psychologist* 10.9, pp. 513–531.