Table of Contents

1	Gei	neral Epistemics on Science and Rationality	1
	1.1	Decision and Cognition	1
	1.2	The Unity of Science, Philosophy and Rational Inquiry	7
	1.3	Methodology of Science and Decision-Choice Rationality	
	1.4	Explanatory and Prescriptive Sciences	
		1.4.1 Explanatory Science and Decision-Choice Rationality	26
		1.4.2 Prescriptive Science and Decision-Choice Rationality	
	1.5	An Epistemic Reflection on Explanatory Theory, Prescriptive	
		Theory and Decision-Choice Rationality	36
		1.5.1 Comparison of Explanatory and Prescriptive	
		Rationalities in the Knowledge Enterprise	37
		1.5.2 Decision-Choice Rationalities, Constructionism,	
		Reductionism in Social Knowledge Construct	46
2	Info	ormation and Knowledge in Decision-Choice Rationality	55
	2.1	Information Definition and Representation in	
		Decision-Choice Systems	58
		2.1.1 The Concept and Nature of Information in Cognitive	
		Systems	59
		2.1.2 Information and Reality	
	2.2	Knowledge Definition and Representation in Decision-Choice	
		Systems	73
		2.2.1 The Concept and Nature of Knowledge	75
		2.2.2 Knowledge, Illusions and Reality	
3	Dec	ision, Choice and Rationality	89
		Epistemological Problem of Rationality	
		3.1.1 The Concept of Rationality	

		3.1.2 Epistemic Conditions of Rationality	102
		3.1.3 Quality-Quantity Duality and Decision-Choice	
		Rationality	107
		3.1.4 Critique of Some Criticisms of Rationality/the Futility	
		of Criticizing the Optimal Rationality Postulate	112
	3.2		
	3.3	Decision, Rationality and Optimality	119
		3.3.1 Rationality and Optimality	120
		3.3.2 Optimality and Equilibrium in Decision Systems	125
	3.4	Choice, Rationality and Optimality	128
		3.4.1 Rational Choice as an Action on Rational Decision	
		3.4.2 Rationality, Choice, Optimality and Equilibrium	139
4	Ide	ology and Decision-Choice Rationalities	143
	4.1	Ideology and Rationality in Institutions and Society	144
	4.2	Ideology and Decision-Choice Rationality in Science and	
		Knowledge Production	147
	4.3	Social Costs and Benefits of Ideology in Decision-Choice	
		Rationality	151
	4.4	Contents of Ideology and Decision-Choice Rationality	
Re	feren	ces	167
	R1	On Aggregation and Rationality	167
	R2	Cost-Benefit Rationality and Decision-Choice Processes	
		R2.1 On Cost-Benefit Rationality and Accounting Theory	
		R2.2 On Cost-Benefit Rationality and Real Economic	
		Costing	172
		R2.3 On Cost-Benefit Rationality and Decision-Choice	
		Criteria	176
		R2.4 On Cost-Benefit Rationality and Pricing	
		R2.5 On Cost-Benefit Rationality and Discounting	
		R2.6 Cost-Benefit Rationality and Contingent Valuation	
		Method (CVM)	182
		R2.7 Cost-Benefit Rationality and the Revealed Preference	
		Approach (RPA)	185
	R3	• • •	
	R4	•	
	R5		
	R6	-	

R7	On Game Theory, Risk Analysis. Fuzziness and Rationality	215
R8	On Fuzzy Logic and Rationality	
R9	On Fuzzy Optimization and Decision-Choice Rationality	225
R10	On Fuzzy Mathematics and Optimal Rationality	229
R11	On Fuzzy Probability, Fuzzy Random Variable and Random	
	Fuzzy Variable	238
R12	On Rationality and General Decision-Choice Processes	241
R13	On Rationality, Ideology and Decision-Choice Process	243
R14	On Rationality, Information and Knowledge	244
R15	Rationality and Category Theory in Mathematics, Logic and	
	Sciences	249
R16	On Rationality, Probabilistic Concepts and Reasoning	250
R17	On Classical Rationality, Optimality and Equilibrium	253
R18	On Bounded Rationality	258
R19	On Rationality, Information, Games and Decision-Choice	
	Conflicts	
R20	On Rationality and Philosophy of Science	262
R21	On Rationality, Riskiness, Decision-Choice Process and	
	Paradoxes	268
R22	On Theories of Utility and Expected Utility	270
R23	On Vagueness and Approximation	271
R24	On Rationality, Prescriptive Science and Theory of Planning	276
Index		277