

Contents

1. The Conceptual Framework of Social Dilemmas	1
<i>Anders Biel</i>	
Introduction	1
New Issues	2
The Individual	2
The Group	2
Society.....	5
New Paradigms	6
A Theoretical Framework	7
2. A New Look at the Theory of Social Value Orientations:	
 Prosocials Neither Maximize Joint Outcome nor Minimize	
Outcome Differences but Prefer Equal Outcomes	10
<i>Daniel Eek and Tommy Gärling</i>	
Introduction	10
Theories of Social Value Orientations	11
An Alternative Equality Hypothesis	12
Empirical Evidence in Support of the Equality Hypothesis.....	13
Do Prosocials Maximize Joint Outcomes?.....	13
Do Prosocials Minimize the Differences in Outcomes?.....	17
Moderating Factors	21
Discussion and Conclusions	23
3. A Classification of Games by Player Type	27
<i>Gary Bornstein</i>	
Introduction	27
U-U vs. I-I: The “Discontinuity Effect”	28
Summary	30
G-G vs. G: Intergroup vs. Single-Group Games	31
The Intergroup Prisoner’s Dilemma (IPD) Game.....	31
Summary	33

G-G vs. I-I: Intergroup vs. Inter-Individual Games.....	34
The Game of Chicken	34
Price Competition	35
Summary	36
Competition Between Different Types of Players	37
Summary	38
Concluding Comments.....	38
4. How Do We React to Feedback in Social Dilemmas?	43
<i>Eric van Dijk, David de Cremer, Laetitia B. Mulder, and Jeroen Stouten</i>	
How Do We React to Feedback in Social Dilemmas?	43
Explicit Feedback.....	44
Effects on Cooperation.....	44
Collective Failure Does Not Always Lead to Defection	46
Feedback, Ostracism, and Exit	48
Emotional Reactions to Feedback.....	48
Feedback and Structural Solutions	49
Implicit Feedback.....	51
The Case of Sanctioning Systems.....	51
Implicit Feedback: The Case of Emotions	52
Conclusion.....	53
5. Group-Based Trust in Social Dilemmas.....	57
<i>Margaret Foddy and Robyn Dawes</i>	
Introduction	57
Previous Research on Group-Based Trust	59
Unilateral Trust in an Ingroup Member.....	60
Trust when the Situation is Interdependent	61
Overview of the Design	63
Procedure.....	63
Results	65
Discussion	68
6. Promoting Cooperation in Social Dilemmas via Fairness	
 Norms and Group Goals	72
<i>Ali Kazemi and Daniel Eek</i>	
Introduction	72
Distributive Fairness and Cooperation in Social Dilemmas	73
Resource Dilemmas and Fairness	74
Public-Good Dilemmas and Fairness.....	75
Comparing Fairness Conceptions in Resource and Public-Good Dilemmas.....	75

Explaining the Importance of Fairness in Social Dilemmas	76
Fairness Norms and Group Goals in Social Decision Making.....	77
Preferences for Public-Good Allocations	79
Promoting Unselfish Public-Good Allocations	
via Group Goals and Distributive Fairness.....	80
Fairness Mediates the Effects of Group Goal	
on Public-Good Allocations.....	82
Generalizing Effects of the Group Goal on Profit Allocations	
to Cost Allocations.....	84
Discussion and Conclusions	85
Extensions and Implications	86
A Note on the Public-Good Dilemma Paradigm.....	87
7. Bringing Back Leviathan into Social Dilemmas	93
<i>Mizuho Shinada and Toshio Yamagishi</i>	
Introduction	93
The Structural Approach to Solving Social Dilemmas	95
Research on Sanctions and Sanctioning Behavior.....	97
Altruistic Punishment.....	99
Motivations Behind Sanctions	101
Group Size.....	104
Punishments and Rewards	106
Social Sanctions	109
Net Benefits of Sanctions.....	110
Future Directions.....	111
The Dark Side of Sanctions	112
Social Value Orientations.....	113
Ingroup, Outgroup, and Sanctions	114
Direct and Indirect Effects of Sanctions	115
8. Effectiveness of Coercive and Voluntary Institutional Solutions to Social Dilemmas.....	124
<i>Yuval Samid and Ramzi Suleiman</i>	
Introduction	124
Method	131
Participants	131
Experimental Conditions.....	131
Procedure.....	131
Results	133
Non-Coercive Authority.....	133
Moderately Coercive Authority	134
Exploitative Authority.....	134
Dominating Authority	135

Summary	136
Discussion	138
9. A Recursive Model for Changing Justice Concerns in Social Dilemmas.....	142
<i>David A. Schroeder, Alicia F. Bembenek, Kimberly M. Kinsey, Julie E. Steel, and Andria J. Woodell</i>	
Justice Concerns in Social Dilemmas.....	143
Distributive Justice Concerns.....	144
“Triggers” for Change.....	145
Procedural Justice Concerns	145
Increasing Distributive Satisfaction	146
Reducing the Uncertainty	146
Engaging the Group Members	147
Introducing Specific Allocation Solutions and Possible Sanctions.....	147
Reactions to Violations: Restorative and Retributive Justice	150
Restorative Justice.....	152
Retributive Justice	153
When Restoration and Retribution “Miss the Mark”	155
Implications of the Recursive Model for Understanding Decisions in Social Dilemmas	156
10. The Emergence of Generalized Exchange by Indirect Reciprocity	159
<i>Rie Mashima and Nobuyuki Takahashi</i>	
Previous Solutions to Generalized Exchange	159
Theoretical Framework	160
Representation of Strategies	161
Definition of “Goodness”.....	162
Summary of the Theoretical Background.....	165
An Empirical Study.....	166
Method	166
Results	168
Discussion	171
Appendix A	172
11. The Herdsman and the Sheep, Mouton, or Kivsa? The Influence of Group Culture on Cooperation in Social Dilemmas.....	177
<i>Shirli Kopelman</i>	
Culture and Appropriateness Framework	179
Culture and Identity	180
Culture and Recognition of the Situation	181
Culture and Rules.....	183
Discussion	184

12. Will Lessons from Small-Scale Social Dilemmas Scale Up?.....	189
<i>Michael McGinnis and Elinor Ostrom</i>	
Matching Institutions to Physical Worlds.....	190
The World of Private Goods	190
The World of Common Pool Resources	190
Prior Research on Robust CPR Institutions.....	192
The Global Relevance of Research on Local CPR Regimes.....	195
Dilemmas of Extending Design Principles to the Global Scale.....	197
Limits to Direct Generalization	198
Cross-Sectoral Foundations of Institutional Design.....	200
Institutional Adjustments Needed in Scaling Up	
Sustainable Regimes	202
A Continuing Need for Creativity	207
13. Effect of Information Structure in a Step-Level Public-Good Dilemma Under a Real-Time Protocol.....	212
<i>Chi Sing Ngan and Wing Tung Au</i>	
Protocols of Play	212
Information Structure.....	214
Criticality.....	214
The Logic of Critical Mass	215
Method	216
Participants	216
Design	216
Procedure.....	216
Results	218
Contribution Rate	218
Public-Good Provision	218
Timing of the Decisions	219
Discussion	220
Effectiveness of the Real-Time Protocol	221
Criticality.....	222
Irrational Decision-Making Behaviors.....	225
The Management of Time in the Real-Time Protocol.....	227
14. Toward an Analysis of Cooperation and Fairness That Includes Concepts of Cooperative Game Theory.....	230
<i>Axel Ostmann and Holger Meinhardt</i>	
Cooperation and Fairness.....	230
Games.....	232
Core and Convexity.....	236
Example Games	238
The CP3 Game.....	239

The HSW1 and HSW2 Games	241
Fairness Solutions	242
Experimental Results Reconsidered	245
Efficiency and Compliance	245
Geometric Localization of Results	246
Summary and Discussion.....	248
15. Using Genetic Algorithms for Simulation of Social Dilemmas	252
<i>Ilan Fischer</i>	
Introduction	252
Genetic Algorithms	253
Simulation	256
Initialization of the Vector Populations	256
Transformation and Recombination of Individual Patterns.....	257
Evaluation and Selection of a Sampled Subgroup.....	257
A Time-Use Social Dilemma.....	258
Conclusions	262
16. Toward a Comprehensive Model of Social Dilemmas.....	265
<i>Robert Gifford</i>	
The Problem, and the Nay-Sayers	265
Toward a Comprehensive Model	266
Complementary and Supplementary Ideas	271
Index.....	281