Contents

List of	ligures	vii
List of tables		viii
List of contributors		x
Preface		xii
	Introduction: Research on Inter-firm Collaboration:	1
	Evolution and Perspectives	
	Anne Plunket, Colette Voisin and Bertrand Bellon	
DADT	I. FORMS OF COLLABORATION: THEORIES AND	
TRENI		
TRENT	<i>7</i> 3	
1.	The Choice of the Form of Strategic Alliances: Transaction	17
1.	Cost Economics and Beyond	• •
	Massimo G. Colombo and Marco Delmastro	
	Mussimo G. Colombo una marco Deimasiro	
2.	What Governance Structure for Non-contractible Services?	35
۷.	An Empirical Analysis	•
	Didier Bréchemier and Stéphane Saussier	
	Dialer Brechemier and Stephane Saussier	
3.	Internet Economics: a New Form of Cooperation?	55
Э.	Godefroy Dang-Nguyen and Thierry Pénard	
	Godefroy Dung-Nguyen and Thierry Tenara	
4.	Copyright Management in the Digital Age: The Evolving	70
	Forms of Cooperation	
	Joëlle Farchy and Fabrice Rochelandet	
	Oction with an an action recommender	
5.	Strategic Technology Alliances: Trends and Patterns Since	88
	the Early Eighties	
	John Hagedoorn and Sarianna Lundan	
	Torrit 1100 Control of	

PART II. PROCESS AND EVOLUTION OF COOPERATION

6.	Important Collaboration Partners in Product Development Preben Sander Kristensen and Anker Lund Vinding	105
7.	The Dynamics of Cooperation Between Public Research and SME: what role for informal relations? <i>Corine Genet</i>	122
8.	Networks and Trust in Transition Cécile Borzeda and Yorgos Rizopoulos	138
9.	Environmental Change and the Evolution of Cooperative Behavior Anne Plunket	156
PART I	II. INDUSTRIAL AND RESEARCH NETWORKS	
10.	Inter-institutional Collaboration and the Organisation of R&D Pier Paolo Saviotti	175
11.	Public Knowledge, Private Property and the Economics of High-tech Consortia: Case Studies in Bio-Medical Research Maurice Cassier and Dominique Foray	192
12.	Technological Needs and Networks Vincent Giard	208
13.	Synchronous Production and Industrial Organization Michel Sapina and Jean-Charles Monateri	228
14.	Cooperation and the Organization of Industry Joël Thomas Ravix	246
Index		260

Figures

2.1	Timing of incomplete contract models	37
2.2	Incentives to reduce production costs: Solutions according to	48
	the chosen governance structure	
2.3	Incentives to improve quality: solutions according to the	49
	chosen governance structure	
5.1	Modes of alliances	93
5.2	Sectoral distribution of alliances	95
5.3	International alliances	97
6.1	Number of collaboration partners by type	110
10.1	Basic (a-b), applied (c-d) search and development (e-f)	183
	represented by means of the range of search and probability of	
	success.	
12.1	The reengineering approach	210
12.2	Systemic analysis of the postal system	224
12.3	Characterization of the flows between two sub-systems	225
12.4	Constraint negotiation mechanism between two sub-systems	225
13.1	Triplet "Speed Scope and Scale", and production organization	233
13.2	Inter-firm organization of the synchronous process	234
14.1	The firm's productive process	249

Tables

1.1	The explanatory variables of the econometric model	22
1.2	The explanatory variables: descriptive statistics	25
1.3	Estimates of a multinomial logit model	27
1.4	Classification tables of the multinomial logit model	28
2.1	Presentation of the used variables	43
2.2	Econometric results (Probit estimates)	45
5.1	Total counts and proportional share of different alliance types 1980-1998	97
6.1	Importance by characteristics in the partner	113
6.2	Importance by characteristics in the firm	115
6.3	Importance by characteristics in projects given as important for market and for other reasons	116
6.4	Old and new partners by importance in the long run and in the project	117
7.1	Formation of networks of collaboration	126
7.2	Origin of relations between a laboratory and an SME	129
7.3	Detailed terms of reference	131
7.4	Steps before signing a contract	132
7.5	Type of relations	133
7.6	Capitalising on relations	133
7.7	Consequences of relationships	134
8.1	Main reason for systematic recourse to main supplier (percentage of the sample enterprises)	142
8.2	Types of contracts with the main supplier (in percentage of the sample enterprises)	142
8.3	Types of long-lasting relations	143
8.4	Structure of the sample	151
8.5	Structure of Polish industry	152
8.6	Structure according to property	152
8.7	Size structure according to the number of employees	152
9.1	Partner strategies (markets, activities), individual objectives relating to cooperative projects and the purpose of the agreement	160

9.2	Indirect impacts on the evolution of agreements	165
14.2	SESSI's typology of activity sharing between a firm and its customer	251
14.3	Inter-firm relationships in the whole industry	252
14.4	Inter-firm relationships by firm size	253
14.5	Wood pulp, paper and cardboard industry	257
14.6	Paper or cardboard products industry	257
14.7	Textile industry	258
	Clothing industry	258
14.9	Electronic components industry	258
	Aerospace industry	259
	Motor vehicle industry	259
	Motor vehicle equipment industry	259