

---

---

# Contents

Foreword	vii
<i>Richard M. Cyert</i>	
Introduction: Computational Organization Theory	xi
<i>Kathleen M. Carley and Michael J. Prietula</i>	
1 The “Virtual Design Team”: Simulating How Organization Structure and Information Processing Tools Affect Team Performance	1
<i>Raymond E. Levitt, Geoffrey P. Cohen, John C. Kunz, Clifford I. Nass, Tore Christiansen, and Yan Jin</i>	
2 Evolving Novel Organizational Forms	19
<i>Kevin Crowston</i>	
3 TASCOS: A Synthesis of Double-AISS and Plural-Soar	39
<i>Harko Verhagen and Michael Masuch</i>	
4 ACTS Theory: Extending the Model of Bounded Rationality	55
<i>Kathleen M. Carley and Michael J. Prietula</i>	
5 Graph Theoretical Dimensions of Informal Organizations	89
<i>David Krackhardt</i>	

6	A Theoretical Evaluation of Measures of Organizational Design: Interrelationship and Performance Predictability <i>Zhiang Lin</i>	113
7	Modeling and Computational Analysis of Reactive Behavior in Organizations <i>Markku Verkama, Raimo P. Härmäläinen, and Harri Ehtamo</i>	161
8	Validating an Expert System That Designs Organizations <i>Helmy H. Baligh, Richard M. Burton, and Børge Obel</i>	179
9	Computer Simulations of Organizations as Experiential Learning Systems: Implications for Organization Theory <i>Theresa K. Lant</i>	195
10	Social Dilemmas and Fluid Organizations <i>Natalie S. Glance and Bernardo A. Huberman</i>	217
11	Human and Artificially Intelligent Traders in Computer Double Auctions <i>Dhananjay K. Gode and Shyam Sunder</i>	241
12	Team Coordination Under Individual and Team Goals <i>Ping Shi, Peter B. Luh, and David L. Kleinman</i>	263
13	A Decision Logic for Operational Risk Management <i>Giampiero E. G. Beroggi and William A. Wallace</i>	289
	Author Index	309
	Subject Index	315