

# Contents

<i>List of Figures</i>	ix
<i>List of Tables</i>	xi
<i>List of Contributors</i>	xiii
 1. Innovation Studies: Towards a New Agenda	 1
<i>Jan Fagerberg, Ben R. Martin, and Esben S. Andersen</i>	
1.1. Introduction	1
1.2. Understanding Innovation: A Brief Historical Sketch	2
1.3. An Evolving Agenda	5
1.4. Achievements and Challenges	7
1.5. Towards a New Agenda?	10
 <b>Part I. Evolution, Developments, and Key Issues</b>	
 2. Innovation Studies: A Personal Interpretation of ‘The State of the Art’	 21
<i>Bengt-Åke Lundvall</i>	
2.1. Introduction	21
2.2. Learning from Project Research	22
2.3. The Theoretical Core of Innovation Studies	32
2.4. Innovation Studies: Drawing the Boundaries to Adjacent Fields	45
2.5. Opening Up the Borders of Innovation Studies	49
2.6. The Future of Innovation Studies	59
 3. Innovation, Work Organization, and Systems of Social Protection	 71
<i>Edward Lorenz</i>	
3.1. Introduction	71
3.2. Work Organization and Organizational Design	72
3.3. National Systems of Innovation and Competence Building: What Are the Relevant Institutions?	77
3.4. Regions and Nations: The Need for a Multi-Level Governance Framework	80
3.5. Policies for Organizational Change and Innovation	82

4. Innovation Systems and Policy for Development in a Changing World	90
<i>Carlota Perez</i>	
4.1. Looking at the Question	90
4.2. The Paradigm Shift and Its Effects on the Conditions of Innovation for and by the Poor (and the Weak)	94
4.3. The Big <i>Moving</i> Picture	98
4.4. Does (or Should) Evolutionary Economics also Evolve?	101
4.5. In Conclusion	105
5. Innovation, Evolution, and Economics: Where We Are and Where We Should Go	111
<i>Giovanni Dosi</i>	
5.1. Introduction	111
5.2. Coordination and Change	112
5.3. Towards an Alternative Interpretation: The Economy as a Complex Evolving System	113
5.4. The Structure of Technological Knowledge and the Process of Technological Innovation	118
5.5. Micro-Foundations: Cognition, Behaviours, and Learning in Complex Evolving Environments	118
5.6. Towards a Soundly Micro-Founded Evolutionary Macroeconomics	124
5.7. Conclusions	126
6. Is Innovation Always Good?	134
<i>Luc Soete</i>	
6.1. Introduction	134
6.2. Innovation, Planned Obsolescence, and Unsustainable Consumption Growth	136
6.3. From Innovation for the Tip to the Bottom of the Income Pyramid	138
6.4. From Financial Innovations to Systemic Failure	141
6.5. Conclusions	142

## Part II. Challenges for Innovation Studies in the Years Ahead

7. Innovation Studies at Maturity	147
<i>W. Edward Steinmueller</i>	
7.1. Introduction	147
7.2. The Argument for Innovation Studies as Normal Science	148

7.3. Pedagogical and Institutional Implications of our Field as Normal Science	155
7.4. Contemporary Issues and the Challenges to our Field	159
7.5. Summary	163
8. Innovation Studies: An Emerging Agenda <i>Ben R. Martin</i>	168
8.1. Introduction	168
8.2. What have been the Main Achievements of Innovation Studies over Previous Decades?	169
8.3. The Challenges	170
8.4. Conclusions	183
9. Reflections on the Study of Innovation and on Those Who Study It <i>Richard R. Nelson</i>	187
10. Smart and Inclusive Growth: Rethinking the State's Role and the Risk–Reward Relationship <i>Mariana Mazzucato</i>	194
10.1. Innovation and Inequality	194
10.2. Innovation and the State—Beyond Fixing Market Failures and Building Systems of Innovation	195
10.3. A Parasitic or Symbiotic Ecosystem?	197
10.4. Conclusion	199
11. An Agenda for Future Research <i>Bengt-Åke Lundvall</i>	202
11.1. Introduction	202
11.2. Research Projects and Problems	203
11.3. A Final Remark on the Future of Innovation Studies	208
<i>Index</i>	211