Index

Bell, Daniel, 217–20, 224
Burton-Jones, Alan, xv, 224

Canada, xvii
Capra, Fritjof, xxiv
Carnoy, Martin, 20, 35
Castells, Manuel, 20, 220, 223
Coase, Ronald, 77
clusters, xxiii–xxv, 77–89, 117–38
   clustering, 117–36, 183–7
   industrial, 77–89
   knowledge, 79–82, 88–9, 183
   local systems, 109–12
   rationale, 118–21
Crick, Francis, 122
David, Paul, 42
Denmark, xx, 86
Dunning, John, xv

Economy, xxvii
   agglomeration, 39, 117
   competitive advantage, 182
   learning, 221–4
   new growth theory, 39
   marketing, 234
   regional xxvii–xxix, 194
   risk capital, 119
   spillovers, 39
   value creation and capture, 169–75
   venture capital, 162
education, 26–34
   higher, 26–34
   credentialism, 33
Eliasson, Gunnar, xv

Finland, xxi, 1–17
   Helsinki, 5, 9, 10
   Seinäjoki, 2–17
   Science Park, 2–3
   Polytechnic, 5, 9

South Ostrobothnia, 2–17
   regional council, 8
   university network, 8
Tampere, 5, 13
Tekes, 2, 7
Vaasa, 7, 9

globalization, 20, 161
   production networks, 161
   sources of innovation, 163
   FDI, 174

governance, xvi
   DTI, 147
   METI, 148
   MEXT, 154
   multi-level, 142, 151–5
   Regional Development Agencies, 155
   EU, xvi, 39, 46–54
   HEFCE, 147
   OECD, xvi, xxi
   UNIDO, xvi
Germany, xvi, 128–37
   Berlin, 135
   Munich, 135
Granovetter, Mark, 81, 120

industry, 83–6
   biotechnology, 45–53, 117–38
   agricultural, 122
   environmental, 122
   pharmaceutical, 122
   ICT, 101–103
   Industry–science relationships, 142
music, 83–5
furniture, 85–6
innovation, 1–14, 20, 38, 60–63, 120, 161, 181
BioRegio, 135
geography of, 38, 39–42
interactive, 120
learning, 60, 161, 181
interactive, 60
inter-firm, 188, 189–94
patents, 3, 40–44
R&D, 3, 10, 39–40, 43, 98
organizational, 14
spinoff firms, 40
systems, 60, 67–72
regional, 63, 42
technology, 162
institutions, 1–17
strategic adaptation, 2–3
local, 164
Ireland, 161–77
Italy, xxi, 86
Emilia-Romagna, 95
Reggio Emilia, 95, 101
Marche, 27
Japan, 25, 142–60
knowledge, xiv–xxvii, 20–31, 38, 93, 197–211
autopoesis, 22
availability, 193
based, 181
codified, 40–42, 94–9, 118
creation, 77
driven economy, 217–24
economy 1–9, 20, 58, 216–27
embeddedness, 199–201
experimental 78–9
experimentation, 79–82
incremental, 79–82
goods, 29
information, xiv, 21
information age, xiv
intensive business services (KIBS), 58–76, 236
intensive organization, 216
laboratories, xx–xxiii (definition, xxi), 8, 232–8
life cycle, 104–12
management, 198–9, 211
organizational, 25–6
positional good, 28
production, 99–103
production function (KPF), 40
regions, 232
scientific, 42–5
society, 24
spillovers, 39
tacit, 40–42, 94–9, 118
transdisciplinary, xx
transfer, 61
Krugman, Paul, xvi
labour, 39
consultants, 59–60, 67, 69–73
full employment, 164–8
knowledge, 62, 161
managerial and technological, 59–60,
67, 69–73, 96
skilled, 39, 97, 119
training, 169–74
Machlup, Fritz, xiv
Marshall, Alfred, 39, 72
Marx, Karl, 93
Netherlands, 183
networks, 1, 79–81, 182, 183–7
global, 1, 3
local, 1
networking, 38–54, 48–54
Epanet, xxi, 10, 13, 14–15, 16
New Zealand, xx
Nonaka, Ikujiro, 29, 183, 188
Norway, 60–64
Bergen, 64
Oslo, 60–64
Trondheim, 64
Penrose, Edith, xxiii
region, xix, 1–7, 17, 39, 64–6
advantage, 234–6
agencies, 1
city-region, 1
complexity, 232–4
identity, 3
innovation systems, xxv
policy, xix
<table>
<thead>
<tr>
<th><strong>Index</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>learning, xxi, 1, 232</td>
</tr>
<tr>
<td>less favoured, 1–7</td>
</tr>
<tr>
<td>Regional Centre Programme Structural Funds, 7</td>
</tr>
<tr>
<td>vision, 17</td>
</tr>
<tr>
<td>research, 38</td>
</tr>
<tr>
<td>collaboration, 38</td>
</tr>
<tr>
<td>in science, 43</td>
</tr>
<tr>
<td>science, 42–5, 125</td>
</tr>
<tr>
<td>citation impact, 43–4</td>
</tr>
<tr>
<td>policy, 142</td>
</tr>
<tr>
<td>Science Park, 142</td>
</tr>
<tr>
<td>scientometrics, 43–54</td>
</tr>
<tr>
<td>Science Citation Index, 45–53</td>
</tr>
<tr>
<td>Schumpeter, Joseph, 183</td>
</tr>
<tr>
<td>Shannon, Claude, xiv</td>
</tr>
<tr>
<td>Smith, Adam, 93</td>
</tr>
<tr>
<td>social capital, 3</td>
</tr>
<tr>
<td>Spain, xvi</td>
</tr>
<tr>
<td>Basque Country, 197</td>
</tr>
<tr>
<td>Mondragon, 197</td>
</tr>
<tr>
<td>MCC, 197, 205–11, 215</td>
</tr>
<tr>
<td>Takeuchi, Hirotaka, 29, 183, 188</td>
</tr>
<tr>
<td>university, 2, 142–60</td>
</tr>
<tr>
<td>academic entrepreneurship, 145</td>
</tr>
<tr>
<td>network, 2</td>
</tr>
<tr>
<td>network university, 8</td>
</tr>
<tr>
<td>Tampere, 5, 13</td>
</tr>
<tr>
<td>Tampere, of technology, 5, 8–9</td>
</tr>
<tr>
<td>research professor model, xxi, 7–15</td>
</tr>
<tr>
<td>UK, 142–60</td>
</tr>
<tr>
<td>England, 151–2</td>
</tr>
<tr>
<td>Northern Ireland, 145</td>
</tr>
<tr>
<td>Scotland, 145, 151</td>
</tr>
<tr>
<td>Wales, 145, 151</td>
</tr>
<tr>
<td>USA, xv, xix, 46–54, 124, 148</td>
</tr>
<tr>
<td>values, 201</td>
</tr>
<tr>
<td>social responsibility, 201–5</td>
</tr>
<tr>
<td>Watson, James, 122</td>
</tr>
</tbody>
</table>