

# Annotated Bibliography (Updated)

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## 1 Introduction

## 2 Literature by Category

### 2.1 General Theory

1. Breschi, S., & Malerba, F. (1997). Sectoral Innovation Systems: Technological Regimes, Schumpeterian Dynamics and Spatial Boundaries. In C. Edquist (Ed.), *Systems of Innovation: Technologies, Institutions and Organizations* (pp. 130156). Pinter Publishers.
2. Burrus, D., & Gittines, R. (1993). *Technotrends: How to Use Technology to Go Beyond Your Competition* (1st edition). New York: Harpercollins.
3. Bush, V. (1960). *Science, the endless frontier: a report to the President on a program for postwar scientific research*.
4. Carlsson, B., Jacobsson, S., Holmn, M., & Rickne, A. (2002). Innovation systems: analytical and methodological issues. *Research Policy*, 31(2), 233245. [https://doi.org/10.1016/S0048-7333\(01\)00138-X](https://doi.org/10.1016/S0048-7333(01)00138-X)
5. Edquist, C. (Ed.). (2012). *Systems of Innovation: Technologies, Institutions and Organizations* (1 edition). London: Routledge.
6. Freeman, C. (1987). *Technology Policy and Economic Performance: Lessons from Japan*. London; New York: Pinter Pub Ltd.
7. Freeman, C., & Soete, L. (2009). Developing science, technology and innovation indicators: What we can learn from the past. *Research Policy*, 38(4), 583589. <https://doi.org/10.1016/j.respol.2009.05.001>
8. Kline, S. J., & Rosenberg, N. (1986). An Overview of Innovation. In R. Landau & N. Rosenberg (Eds.), *The positive sum strategy: Harnessing technology for economic growth* (pp. 275305). Washington, D.C.
9. Lundvall, B.-. (Ed.). (2010). *National Systems of Innovation: Toward a Theory of Innovation and Interactive Learning* (Revised ed. edition). London: Anthem Press.

10. Malecki, E. J. (1997). *Technology and Economic Development: The Dynamics of Local, Regional and National Competitiveness* (2 edition). Essex, England: Longman Pub Group.
11. Malerba, F. (Ed.). (2004). *Sectoral Systems of Innovation: Concepts, Issues and Analyses of Six Major Sectors in Europe*. New York, N.Y: Cambridge University Press.
12. National Science Foundation (U.S.). (1957). *Basic Research: A National Resource*. Washington, D.C.: National Science Foundation. Retrieved from <https://catalog.hathitrust.org/Record/006685>
13. Nelson, R. R. (1959). The Simple Economics of Basic Scientific Research. *Journal of Political Economy*, 67, 297-297.
14. Nelson, R. R. (Ed.). (1993). *National Innovation Systems: A Comparative Analysis* (1 edition). New York: Oxford University Press.
15. Oinas, P., & Malecki, E. J. (2002). The Evolution of Technologies in Time and Space: From National and Regional to Spatial Innovation Systems. *International Regional Science Review*, 25(1), 102-131. <https://doi.org/10.1177/016001702762039402>
16. Rosenberg, N. (1983). *Inside the Black Box: Technology and Economics*. Cambridge: Cambridge University Press.
17. Soete, L. (2007). From Industrial to Innovation Policy. *Journal of Industry, Competition and Trade*, 7(34), 273. <https://doi.org/10.1007/s10842-007-0019-5>
18. Stokes, D. E. (1997). *Pasteurs Quadrant: Basic Science and Technological Innovation*. Washington, D.C: Brookings Institution Press.

## 2.2 Regional Innovation

1. Alcaide-Marzal, J., & Tortajada-Esparza, E. (2007). Innovation assessment in traditional industries. A proposal of aesthetic innovation indicators. *Scientometrics*, 72(1), 335-7. <https://doi.org/10.1007/s11192-007-1708-x>
2. Asheim, B. T., & Isaksen, A. (2002). Regional Innovation Systems: The Integration of Local Sticky and Global Ubiquitous Knowledge. *The Journal of Technology Transfer*, 27(1), 77-86. <https://doi.org/10.1023/A:1013100704794>
3. Autio, E. (1998). Evaluation of RTD in regional systems of innovation. *European Planning Studies*, 6(2), 131-140. <https://doi.org/10.1080/09654319808720451>
4. Carlsson, B., Jacobsson, S., Holmn, M., & Rickne, A. (2002). Innovation systems: analytical and methodological issues. *Research Policy*, 31(2), 233-245. [https://doi.org/10.1016/S0048-7333\(01\)00138-X](https://doi.org/10.1016/S0048-7333(01)00138-X)
5. Christopherson, S., & Clark, J. (2007). Power in Firm Networks: What it Means for Regional Innovation Systems. *Regional Studies*, 41(9), 1223-1236. <https://doi.org/10.1080/003434007015433>

6. Colapinto, C. (2007). A way to foster innovation: a venture capital district from Silicon Valley and route 128 to Waterloo Region. *International Review of Economics*, 54(3), 319343. <https://doi.org/10.1007/s12232-007-0018-1>
7. Cooke, P. (2001). Regional Innovation Systems, Clusters, and the Knowledge Economy. *Industrial and Corporate Change*, 10(4), 945974. <https://doi.org/10.1093/icc/10.4.945>
8. Cooke, P., Gomez Uranga, M., & Etxebarria, G. (1997). Regional innovation systems: Institutional and organisational dimensions. *Research Policy*, 26(4), 475491. [https://doi.org/10.1016/S0048-7333\(97\)00025-5](https://doi.org/10.1016/S0048-7333(97)00025-5)
9. Cooke, P. N., Heidenreich, M., & Braczyk, H.-J. (2004). *Regional Innovation Systems: The Role of Governance in a Globalized World*. Psychology Press.
10. Evangelista, R., Iammarino, S., Mastrostefano, V., & Silvani, A. (2002). Looking for Regional Systems of Innovation: Evidence from the Italian Innovation Survey. *Regional Studies*, 36(2), 173186. <https://doi.org/10.1080/00343400220121963>
11. Freeman, C. (2002). Continental, national and sub-national innovation systems complementarity and economic growth. *Research Policy*, 31(2), 191211. [https://doi.org/10.1016/S0048-7333\(01\)00136-6](https://doi.org/10.1016/S0048-7333(01)00136-6)
12. Krauss, G., & Wolf, H.-G. (2002). Technological Strengths in Mature Sectors—An Impediment or an Asset for Regional Economic Restructuring? The Case of Multimedia and Biotechnology in Baden-Wurttemberg. *The Journal of Technology Transfer*, 27(1), 3950. <https://doi.org/10.1023/A:1013144519815>
13. Liu, S., & Chen, C. (2003). Regional innovation system: Theoretical approach and empirical study of China. *Chinese Geographical Science*, 13(3), 193198. <https://doi.org/10.1007/s11769-003-0016-5>
14. Scott, A. J. (2006). Entrepreneurship, Innovation and Industrial Development: Geography and the Creative Field Revisited. *Small Business Economics*, 26(1), 124. <https://doi.org/10.1007/s11187-004-6493-9>
15. Simmie, J. (2003). Innovation and Urban Regions as National and International Nodes for the Transfer and Sharing of Knowledge. *Regional Studies*, 37(67), 607620. <https://doi.org/10.1080/0034343031000164939>

## 2.3 Methodology

1. Acs, Z. J., Anselin, L., & Varga, A. (2002). Patents and innovation counts as measures of regional production of new knowledge. *Research Policy*, 31(7), 10691085.
2. Acs, Z. J., & Audretsch, D. B. (1993). Analysing Innovation Output Indicators: The US Experience. In A. Kleinknecht & D. Bain (Eds.), *New concepts in innovation output measurement* (pp. 1041). Palgrave Macmillan UK. <https://doi.org/10.1007/978-1-349-22892-8-2>

3. Arundel, A. (2007). Innovation Survey Indicators: What Impact on Innovation Policy? In D. Organisation for Economic Co-operation and (Ed.), *Science, Technology and Innovation Indicators in a Changing World: Responding to Policy Needs*.
4. Edquist, C. (1997). *Systems of innovation: technologies, institutions, and organizations*. Routledge. <https://doi.org/10.4324/9780203357620>
5. Evangelista, R., & et al. (2002). Looking for Regional Systems of Innovation: Evidence from the Italian Innovation Survey. *Regional Studies*, 36(2), 173186.
6. Gertler, M. S., Wolfe, D. A., & Garkut, D. (1998). The Dynamics of Regional Innovation in Ontario. In *Local and Regional Systems of Innovation* (pp. 211238). Boston, MA: Springer, Boston, MA. <https://doi.org/10.1007/978-1-4615-5551-3-11>
7. Griliches, Z. (1990). Patent Statistics as Economic Indicators - A Survey. *Journal of Economic Literature*, 28(4), 16611707.
8. Grupp, H., & Moge, M. E. (2004). Indicators for national science and technology policy: How robust are composite indicators? *Research Policy*, 33(9), 13731384. <https://doi.org/10.1016/j.respol.>
9. Hall, J. L. (2008). Adding Meaning to Measurement. *Economic Development Quarterly*, 23(1), 312. <https://doi.org/10.1177/0891242408326467>
10. Hall, J. L. (2016). Developing Historical 50-State Indices of Innovation Capacity and Commercialization Capacity. *Economic Development Quarterly*, 21(2), 107123. <https://doi.org/10.1177/08912>
11. Kleinknecht, A., & Van Montfort, K. (2002). The non-trivial choice between innovation indicators. *Economics of Innovation*, 11(2), 109121. <https://doi.org/10.1080/10438590210899>
12. NSF. (1956). *Expenditures for R&D in the United States 1953*. Washington, D.C.: National Science Foundation.
13. OECD. (1963). *Proposed Standard Practice for Surveys of Research and Development*. Paris: Directorate for Scientific Affairs. OECD.
14. OECD. (1992). *Oslo Manual: Proposed Guidelines for Collecting and Interpreting Technological Innovation Data*.
15. OECD. (1997). *National Innovation Systems*. Organization for Economic Cooperation and Development.
16. OECD, & European Communities Statistical Office. (2005). *Oslo Manual: Proposed Guidelines for Collecting and Interpreting Technological Innovation Data*. OECD/Eurostat.
17. Porter, M., & Stern, S. (1999). *The New Challenge to Americas Prosperity: Findings from the Innovation Index*. Washington, D.C.: Council on Competitiveness.
18. Sajeve, M., & Gatelli, D. (2005). *Methodology Report on European Innovation Scoreboard 2005*. European Commission, Enterprise Directorate-General.

19. Simmie, J. (2003). Innovation and urban regions as national and international nodes for the transfer and sharing of knowledge. *Regional Studies*, 37(67), 607620. <https://doi.org/10.1080/0034340031000161311>
20. Smith, K. H. (2005). Measuring innovation. In J. Fagerberg & D. C. Mowery (Eds.), *The Oxford Handbook of Innovation*. Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780199286111.013.001>
21. Tijssen, R. (2003). Scoreboards of research excellence. *Research Evaluation*, 12(2), 91103. <https://doi.org/10.3152/147154403781776690>

## 2.4 Application

1. Arundel, A. (2007). Innovation Survey Indicators: What Impact on Innovation Policy? In D. Organisation for Economic Co-operation and (Ed.), *Science, Technology and Innovation Indicators in a Changing World: Responding to Policy Needs*.
2. Asheim, B. T., & Isaksen, A. (2002). Regional Innovation Systems: The Integration of Local Sticky and Global Ubiquitous Knowledge. *Journal of Technology Transfer*, 27(1), 7786.
3. Cooke, P., Heidenreich, M., & Braczyk, H. J. (2004). *Regional Innovation Systems: The Role of Governance in a Globalized World*. New York: Routledge.
4. Cooke, P., & Memedovic, O. (2003). *Strategies for Regional Innovation Systems: Learning Transfer and Applications*. Vienna, Austria: United Nations Industrial Development Organization.
5. Diez, J. R. (2002). Metropolitan innovation systems: A comparison between Barcelona, Stockholm, and Vienna. *International Regional Science Review*, 25(1), 6385.
6. Evangelista, R., & et al. (2002). Looking for Regional Systems of Innovation: Evidence from the Italian Innovation Survey. *Regional Studies*, 36(2), 173186.
7. Fischer, M. M., Revilla Diez, J., & Snickars, F. (2001). Metropolitan innovation systems: Theory and evidence from three metropolitan regions in Europe. In association with Attila Varga. *Advances in Spatial Science*. Heidelberg and New York: Springer.
8. Grupp, H., & Mogege, M. E. (2004). Indicators for national science and technology policy: How robust are composite indicators? *Research Policy*, 33(9), 13731384. <https://doi.org/10.1016/j.respol.2004.07.001>
9. Hall, J. L. (2008). Adding Meaning to Measurement. *Economic Development Quarterly*, 23(1), 312. <https://doi.org/10.1177/0891242408326467>
10. Hall, J. L. (2016). Developing Historical 50-State Indices of Innovation Capacity and Commercialization Capacity. *Economic Development Quarterly*, 21(2), 107123. <https://doi.org/10.1177/0891242416631111>
11. Holbrook, A., & Salazar, M. (2004). Regional Innovation Systems Within A Federation: Do national policies affect all regions equally? *Innovation: Management, Policy & Practice*, 6(1), 5064.

12. Isaksen, A. (2001). Building Regional Innovation Systems: Is Endogenous Industrial Development Possible in the Global Economy? *Canadian Journal of Regional Science*, 24(1), 101120.
13. Pavitt, K., Robson, M., & Townsend, J. (1987). The Size Distribution of Innovating Firms in the UK - 1945-1983. *Journal of Industrial Economics*, 35(3), 297316.
14. Porter, M., & Stern, S. (1999). The New Challenge to Americas Prosperity: Findings from the Innovation Index. Washington, D.C.: Council on Competitiveness.
15. Simmie, J. (2003). Innovation and urban regions as national and international nodes for the transfer and sharing of knowledge. *Regional Studies*, 37(67), 607620. <https://doi.org/10.1080/0034340034340>
16. Soete, L. (2006). Knowledge, policy and innovation. In L. Earl & F. Gault (Eds.), *National Innovation, Indicators and Policy* (pp. 198218). Cheltenham: Edward Elgar.
17. Tijssen, R. (2003). Scoreboards of research excellence. *Research Evaluation*, 12(2), 91103. <https://doi.org/10.3152/147154403781776690>

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#### **References**