

Curriculum Vitae

[NAME IN FULL] Shin Taeyoung (Mr.)

[DATE OF BIRTH] 2 January 1952

[MAILING ADDRESS]

Science and Technology Policy Institute (STEPI)
26th Fl. Specialty Construction Center
395-70 Shindaebang-dong, Dongjak-gu, Seoul 156-714, Korea
☎: +82-2-3284-1871 / (Fax) +82-2-849-8015
E-mail: tshin@stepi.re.kr
<http://www.stepi.re.kr/tshin.htm>



[PERMANANT ADDRESS]

517-1603 Hanyang Apts., Sunae-1dong, Bundang, Kyunggi-do, 463-921, Korea
☎: +82-31-716-9882

[AREA OF SPECIALIZATION]

Applied Economics, Quantitative Analysis, and Science and Technology Policy Studies.

[EDUCATION]

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|---------------------|---|
| Ph.D. in Economics, | State University of New York at Binghamton, 1988. |
| M. A. in Economics, | Thammasat University, Bangkok, 1980. |
| B. A. in Economics, | Yonsei University, Seoul, 1978. |

[EXPERIENCE]

Vice President, Science and Technology Policy Institute (STEPI), June 2007 to October 2008.
Senior Research Fellow, Science and Technology Policy Institute (STEPI), since January 1991.
Vice Chairman & Korean Delegate, Committee of Science and Technology (CSTP), OECD,
January 2005 to present.
Member, Plan Evaluation Committee, Korea Research Council of Fundamental Science and
Technology, July 2003 to 2009.
Member, Committee for Policy Measures of Hollowing-out in Manufacturing Industry,
Ministry of Commerce, Industry and Energy, 2002.
Visiting Research Associate, State University of New York at Binghamton, June 2001 ~
March 2002
Member, International Advisory Board, APEC Center for Technology Foresight, (Bangkok,
Thailand), 1998 thru 2001.
Member, Executive Committee, International Association of Technology Assessment and

Forecasting Institutions (IATAFI), 1996 thru 2000.
Policy Adviser to the Minister of Science and Technology (Korea), January 1977 thru February 1988.
Consultant to National Science and Technology Development Agency (NSTDA), Thailand, 1997.
Consultant to Department of Science and Technology, Philippines, 1995.
Senior Research Fellow, Kia Economic Research Institute (KERI), September 1989 thru January 1991.
Assistant Professor, State University of New York at Oswego, September 1986 thru June 1989.
Research Fellow, Korea Institute for Industrial Economics and Trade (KIET), October 1977 thru September 1982.

[PUBLICATIONS]

International Publications

- T. Shin, "Impacts of the Foreign Exchange Crisis on R&D activities in Korea; Recent Corporate Reforms in R&D," Center for Research Policy, Wollongong University, Australia, June 1999, and in *R&D Enterprise-Asia Pacific*, vol.3, no.1-2, (January-May 2000), pp.3-9.
- T. Shin, Soon-ki Hong and Hariolf Grupp, "Technology Foresight Activities in Korea and in Catching-Up countries", *Technological Forecasting and Social Change*, (January, 1999), pp.71-84
- T. Shin, "Using the Delphi for a Long-Range Technology Forecasting, and Assessing Directions of Future R&D Activities; A Korean Exercise," presented at the Bi-Annual Conference of IATAFI, 8-10 October 1996, Brussels, and also in *Technological Forecasting and Social Change* 58, (1998), pp.125-154.
- T. Shin & H. Kim. "Research Foresight Activities and Technological Development in Korea: Policy Experiment in National R&D Programs," *Technology Forecasting and Social Change* 45(1), (January 1994).
- T. Shin, "Behavioral additionality of public R&D funding in Korea," in OECD, *Government R&D funding and company behavior*, 2006, pp..

Korean Journals

- T. Shin, "Technological innovation and economic growth: Factor substitution, technical progress and R&D investment," *Journal of technology Innovation*, Vol.15, No.2, (December, 2007), pp.1-24.
- T. Shin, "Firm's Innovation Behavior and its Determinants; firm Size and Innovation," (Korean version), *Journal of Korea Innovation Society* Vol.2 No. 2, (September 1999), pp.169-186.

- T. Shin, "Innovation Capability Index of Korea's Manufacturing Firms: An Empirical Study Using the Community Innovation Survey (CIS) Dataset," presented at the First Korea-Japan Science and Technology Policy Forum, Seoul, Korea, 24-25 November 1999, and also in *Journal of Korea Innovation Society*, vol. 2, no. 3, (December 1999), pp.48-60.
- T. Shin, "Firm's Innovation Behavior and its Determinants; Firm Size and Innovation," (Korean version), *Journal of Technological Innovation* Vol.2 No. 2, (September, 1999), pp.169-186.
- T. Shin & S.K. Hong, "The Effect of National Technology Capability on International Competitiveness of Knowledge-Intensive Commodities; Some New Empirical Evidences," *Journal of Science and Technology Policy*, Science and Technology Policy Institute, (1992).

Seminar Presentations

- T. Shin, "Delphi Study at the Multi-Country Level; Gains and Limitations," Proceeding of International Conference on Technology Foresight: The Approach to and the Potential for New Technology Foresight, Tokyo; NISTEP, March 2001, pp.161-172.
- T. Shin, "Technology Forecasting and S&T Planning; Korean Exercise," presented in the International Symposium for Technology Foresight, Brasilia, Brazil, September 2000.
- T. Shin, "Technology Foresight and Policy Making; Korean Exercise," *Policy Issues 99-08*, STEPI, and presented at the Meeting on Technology Foresight: UNIDO-ICS Initiative for Latin America, Trieste, Italy, 7-9 December 1999.
- T. Shin, "Innovation Capability Index of Korea's Manufacturing Firms: An Empirical Study Using the Community Innovation Survey (CIS) Dataset," presented at the First Korea-Japan Science and Technology Policy Forum, Seoul, Korea, 24-25 November 1999.
- T. Shin, "Impacts of the Foreign Exchange Crisis on R&D activities in Korea; Recent Corporate Reforms in R&D," Center for Research Policy, Wollongong University, Australia, June 1999, and forthcoming in *R&D Enterprise-Asia Pacific*.
- T. Shin, "Long-Run Behavior of R&D Investment and Economic Growth: Macro-Econometric Model," (Korean Version), *Policy Issues 98-15*, STEPI, 1988, and presented at an invitational seminar, Wollongong University, Australia, June 1999.
- T. Shin, "Long-Range Technology Forecasting and Its Uses for S&T Planning in Korea," (Expert Report), *Proceedings of ASEAN-UNDP ASP-5 Sub-Programme in Technology Roundtable Meeting on Technology Scan*, Bali, Indonesia, 28-29 August 1997.
- T. Shin, "Technology Foresight: Applications and Its Potential to the APEC Region," *Proceedings of APEC Symposium on Technology Foresight*, Chiang Mai, Thailand, 10-13 June 1997.
- T. Shin, "Feasibility Study for APEC Center for Technology Foresight : Operational Framework

of TF Activity," (Consultant Report), NSTDA (National S&T Development Agency), Bangkok, March 1997.

T. Shin, "Public Policies, Process of Acquisition and Buildup of Technology Capabilities in Korea," presented in the Expert Group Meeting on the Benefits of High Technology Spin-Offs for Developing Countries, held by UNIDO, 20-22 December 1993, Vienna.

Mimeographs

T. Shin, "Technological innovation and economic growth; Factor substitution, technical progress and R&D investment," *mimeograph* (2007), STEPI.

T. Shin, "R&D investment and economic growth," *Policy Issues*, (August 2004), STEPI.

T. Shin, "Innovation Behaviors of Korea's Manufacturing Firms: Some Empirical Evidences Based on the Korean Innovation Survey (KIS) Database," *Policy Issues*, (August 2003), STEPI.

T. Shin, "Structural Change in Industrial Competitiveness and Innovation policy," *Policy Issues 2003-03*, (July 2002), STEPI.

T. Shin, "Measuring Knowledge Stocks: An International Comparison," *Policy Issues 2002-10*, (December 2002), STEPI.

T. Shin, "Estimating S&T Development Paths by Areas and Directions of R&D Investment," *Policy Issues 2001-02*, (February 2001), STEPI.

T. Shin, "R&D Investment and Knowledge Stocks; An International Comparison," *Policy Issues 2002-10*, (August, 2002), STEPI.

T. Shin, "Estimating Alternative Paths and Analyzing Changes in Speeds of Science and Technology Development , Using Korean Delphi's," *Policy Issues 01-10*, (June 2001), STEPI.

T. Shin, "Firm Size, Industrial Structure and Innovation," (Korean Version), *Policy Issues 99-07*, STEPI.

T. Shin & W.C. Song, "An Empirical Analysis on Effectiveness of Policy Measures Supporting Firm's Innovation Activities," *Policy Issues 98-11*, (Korean version), Science and Technology Policy Institute (STEPI), 1998.

T. Shin & W.C. Song, "Effect of Innovation Strategy, Environmental and Institutional Factors on Firm's Innovation Behavior," *Policy Issues 98-09*, (Korean version), Science and Technology Policy Institute (STEPI), 1998.

T. Shin & S.K. Hong, "Technology Foresight Activities in Korea; A Reinterpretation of the

Korean Delphi," *Policy Issues 97-10*, Science and Technology Policy Institute (STEPI), 1997.

T. Shin "Measuring Systematic Efficiency of Production for the Multi-product Firm; A Panel Data Analysis," *Mimeograph*, 1988.

Books and Research Reports

T. Shin, et. Al., "A Study for Development of Korean STP Model and Its Diffusion," Daedeok Innopolis, 2011.

T. Shin, K. Kim & J. Kang, "A Study on Governance and Agenda for S&T international Cooperation with Developing Countries," STEPI, 2010

T. Shin, et. al., "5 Year Basic Plan for Science and Technology in Agriculture, Forestry, Fishery and Foods," Ministry of Agriculture, Forestry, Fishery and Foods, 2009.

T. Shin & K. Kim, "Open Innovation and Efficiency of R&D Investment," STEPI, 2009.

T. Shin, et. al., "The determinants of technological innovation in manufacturing industries and policy implications," STEPI, 2006.

T. Shin, et. al., "A comprehensive appraisal of policy support programs for technological innovation," STEPI, 2006.

T. Shin, "Technological innovation and economic growth; An empirical analysis of factor substitution and technical progress." STEPI, 2005.

T. Shin, "Behavioral and dynamic relationships between government R&D and private R&D expenditures: Complementarity vs. substitutability," STEPI, 2004.

T. Shin, "Effects of foreign direct investment on trade balance and activities of manufacturing industry," STEPI, 2003.

T. Shin, "Long-Run Effects of R&D investment on National Economy," STEPI, 2003.

T. Shin, W. Song & M. Um, "Korean Innovation Survey 2002: Manufacturing Sector," STEPI, 2002.

T. Shin & P.M. Bark, "A Simulation Analysis of Policy Effects of R&D Investment; A Macro-Econometric Model with R&D Sector and Supply Side," STEPI, (Korean version), 1999.

T. Shin & W.C. Song, "Analysis of Determinants of Success of New Technology-Based Firms in Korea," (Korean version), STEPI, 1988.

T. Shin & D.H. Ahn, "Applying Technology Portfolio for Selecting Strategic Technologies for National R&D," (Korean version), Science and Technology Policy Institute (STEPI), 1998.

T. Shin, J.H. Park & H.S. Kim, "Development of a Methodology of Technology Forecasting for Information and Communication Technologies," (Korean version), ETRI/STEPI, 1996.

- T. Shin, J.H. Park, H.S. Kim & D.H. Ahn, "A Long-Range Technology Forecasting for Technological Development Planning of Electrical Power," (Korean version), KEPCO/STEPI, 1996.
- T. Shin, "National Technology Development and Transfer Plan, Module II: TSSF- Management of Technology," (Consultant Report for UNDP-DOST Philippines Project), Manila; Department of Science and Technology, 1995.
- T. Shin, J.H. Park & H.S. Kim, *Technology Forecasting; Methods and Applications*, (Korean version), Science and Technology Policy Institute, 1995.
- T. Shin, J.H. Park, K.H. Jung & H.S. Kim, *The First Survey of Science and Technology Forecasting (1995-2015): Future Technologies of Korea*, (Korean version), Science and Technology Policy Institute, 1994.
- T. Shin, et. al., *A Taxonomy of Korean Technologies for Research and Development*, (Korean version), Science and Technology Policy Institute, 1994.
- T. Shin & S.K Hong, "Measuring National Technology Capability and A Technology Portfolio for Strategic R&D Planning," (Korean version), Science and Technology Policy Institute, 1992.
- T. Shin, et. al., "Developing A Model of Technology Demand Surveys," (Korean version), Science and Technology Policy Institute, 1994.
- T. Shin & H.C. Kim, "Forecasting the Demand for Small Special Vehicles in Korea," (Korean version), Kia Economic Research Institute, 1990.
- T. Shin & H.C. Kim, "Medium- and Long-Run Forecasting the Demand for Passenger Cars in Korea," (Korean version), Kia Economic Research Institute, 1990.
- T. Shin, et. al., "Forecasting the Demand for Large Commercial Vehicles and Business Strategies," (Korean version), Kia Economic Research Institute, 1990.
- T. Shin, et. al., "Forecasting the Demand for Imported Passenger Cars in Korea and Management Strategies," (Korean version), Kia Economic Research Institute, 1990.

Theses

- T. Shin, "Measuring Productive Efficiency for the Multi-product Firm: A Panel Data Analysis," (Ph. D. Dissertation), New York; State University of New York, 1988.
- T. Shin, "Growth, Monetary Policy and the Balance of Payments: A Case of Korea," (M.A. Thesis), Thammasat University, 1980.