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Research Interests

Industrial organization, economics of technological innovations, technology strategy and policy, competition policy, health economics.

Education

Ph.D., Managerial Science and Applied Economics, 1988, Dept. of Decision Sciences,
The Wharton School, University of Pennsylvania, Philadelphia, PA, U.S.A.
A.M., Operations Research, 1988, The Wharton School, University of Pennsylvania.
M.B.A., 1984, York University, Toronto, Canada.
B.A.Sc. (Environmental Engineering), 1981, University of Toronto, Canada.

Experience

2011 to present: Chair, Department of Management, University of Toronto Mississauga (UTM).
2010/11: Associate Chair, Department of Management UTM
2006 -2012: Director of the Masters of Management of Innovation Program, Univ. of Toronto.
2006 to present: cross appointed to the Institute for Health Policy and Mgmt. Evaluation, University of Toronto.
2006: Acting Chair, Department of Management, UTM.
2005 - 2006: Interim Director of the Masters of Biotechnology Program, University of Toronto.
2003 to present: Hatch Chair in Technology Management and Strategy, J.L. Rotman School
of Management and Department of Management, UTM, Canada.
2000 to 2003: Professor of Technology Management and Strategy, Queen's School of
Business, Queen's University, Kingston, Ontario, Canada.
1994 to 2000: Professor of Technology Management and Policy, Department of Economics and
Management Science, Helsinki School of Economics and Business Administration,
Helsinki, Finland.
1991 to January 1995: Assistant Professor of Policy and Management Science, and
Director of the Advanced Technology Management Degree Programme,
Policy Division, Faculty of Commerce, University of British Columbia, Canada.
1988 to 1991: Assistant Professor of Production and Operations Management,
Technology Management Area, European Institute of Business
Administration (INSEAD), Fontainebleau, France.

¹ April, 2018

Other positions held:

Affiliate Professor, European School for Management and Technology (ESMT), Berlin, 2007 - 2010
Visiting Scholar, Managerial Economics and Decision Sciences Dept. (MEDS), Kellogg School of Management, Northwestern University, 1999-2000.
Visiting Professor, Institute of Industrial Policy Studies, Seoul, Korea (1996, 1997 and 1998).
Visiting Research Professor, Wissenschaftszentrum Berlin für Sozialforschung (1994).
Visiting Assistant Professor, Dept. of Management Sciences, Faculty of Engineering, University of Waterloo, Ontario, Canada (1991).
Visiting Assistant Professor, Helsinki School of Economics, International M.B.A. Programme, Finland (1989 and 1991; EMBA, 1993).
Lecturer, Operations Management, The Wharton School, U. of Pennsylvania (1986 and 1987).
Research Associate, INSEAD (1986).
Distribution Analyst, Exxon Corp., Esso Petroleum Canada (1981 and 1982).

Awards and Honours

Dean's Excellence Award, UTM, 2012 - 2015.
Teaching Excellence Award, Rotman School of Management, University of Toronto, 2005, 2006.
Associate Research Fellow, Interuniversity Centre for the Analysis of Organizations (CIRANO), Montreal.
Research Excellence Award, 2002-2003, Queen's School of Business.
Principal Investigator: Cdn Automotive Materials and Manufacturing Research Grant, 2001-2004.
Natural Sciences and Engineering Research Council Operating Grants, 2000-2006 and, 1992-1996.
Academy of Finland, Technology Policy Project, 1997-99,
Ministry of Education Grant, Finland, 1995,
Social Sciences and Humanities Research Council of Canada (SSHRC), 1993-1998; 1996-1999; 2009-2012.
Dean's Fellow, The Wharton School, University of Pennsylvania, 1984-85.

Refereed Journal Publications

"Optimal Reimbursement Policy in Health Care: Competition, Ownership Structure and Quality Provision", *The B.E. Journal of Economic Analysis and Policy*, Vol. 18, No. 1, 2018, pp. 1 – 19 (with R. Stenbacka).

"Switching to Green: the Timing of socially responsible innovation", *Journal of Economics and Management Strategy*", 23, No. 3 Fall, 2014, pp. 669-691 (with A. Galasso).

"Make and buy: Balancing bargaining power", *Journal of Economic Behaviour and Organization*, **81**, February, 2012, pp. 391-402 (with R. Stenbacka).

"Endogenous location leadership", *International Journal of Industrial Organization*, **27**, 2009, pp. 687-707 (with S. Meza).

"Why firms form (or do not form) RJVs", *The Economic Journal*, Volume 117, July, 2007, pp. 1122-1144 (with L.-H. Röller and R. Siebert).

"Strategic Asymmetry", *Journal of Economic Behaviour and Organization*. Volume 61, Issue 3, November, 2006, pp. 339-350.

Refereed Journal Publications (cont'd.)

- ``Investment, Capital Structure and Complementarities between Debt and New Equity'', *Management Science*, Vol. 48, No. 2, February 2002, pp. 257-272 (with R. Stenbacka).
- ``Mergers to Monopoly'', *Journal of Economics and Management Strategy*, Vol. 11, No. 3, Fall 2002, pp. 513-546.
- ``Technology Policy and the Organization of R&D'', *Journal of Economic Behavior and Organization*, Vol. 36, 1998, pp. 503-520 (with R. Stenbacka).
- ``Time-based Competition and the Privatization of Services'', *Journal of Industrial Economics*, **XLIII**, No. 4 (December), 1995, pp. 435-454 (with R. Stenbacka).
- ``Process Technologies, Learning, and Brand Proliferation'', *European Journal of Operational Research*, **82**, 1995, pp. 26-38.
- ``Multinational Plant Location as a Game of Timing'', *European Journal of Operational Research*, **86**, No. 3, (November), 1995, pp. 434-451.
- ``Strategic Timing of Adoption of New Technologies under Uncertainty'', *International Journal of Industrial Organization*, **12**, 1994, pp. 387-411 (with R. Stenbacka).
- ``On the Adoption of Multiproduct Technologies'', *Naval Research Logistics*, Vol. 38, 1994, pp. 377-394. (with T. Kim, and L.-H. Röller).
- ``Competition and Investment in Flexible Technologies'', *Management Science*, Vol.39, No. 1, January, 1993, pp. 107-114. (with L.-H. Röller).
- ``Models for the Evaluation of Manufacturing Flexibility'', *European Journal of Operational Research*, Vol. 60, 1992, pp. 156--165 (with P. Chandra).
- ``Strategic Choice of Flexible Production Technologies and Welfare Implications: Addendum'', *Journal of Industrial Economics*, **XL**, No. 2, June, 1992, pp. 233--235 (with L.-H. Röller and T. Kim).
- ``Strategic Aspects of Flexible Production Technologies: Theory and Evidence'', *International Journal of Production Economics*, **23**, (1991), pp. 197-204. (with L.-H. Röller).
- ``Strategic Choice of Flexible Production Technologies and Welfare Implications'', *Journal of Industrial Economics*, **XXXVIII**, No. 4, June, 1990, pp. 417-431. (with L.-H. Röller).
- ``A Strategic Analysis of Investment in Flexible Manufacturing Systems'', *European Journal of Operational Research*, Vol. 47, No. 2, July 25, 1990, pp. 225-238.
- ``The Effects of Technological Uncertainty on the Plant Location of a Competitive Firm'', *Journal of Urban Economics*, **24**, 1988, pp. 38-43.
- ``Flexibility and FMS: An Empirical Analysis'', *IEEE Transactions on Engineering Management*, Vol. 35, No. 2, May 1988, pp.101-107. (with A. De Meyer).

Papers in Books

“The Centralization of R&D Resource Allocation”, The Political Economy of Industrial Policy, D. Neven and L.-H. Röller (eds.), Edition Sigma Pub., Berlin, 2000 (with R. Stenbacka).

“Commitment and Efficiency in Research Joint Ventures”, Competition, Cooperation, Research and Development: The Economics of Research Joint Ventures, J. Poyago-Theotoky (ed.), Macmillan Pub. Co., 1997, (with R. Stenbacka).

“Roles of Government in Fostering Knowledge Based Companies: The British Columbia Experience” Public Policy and the Management of Innovation in Technology-based Entrepreneurship, D. Balkin and J. DeCastro (eds.), JAI Press, 1994, (with R. Amit).

“Entry with New Multiproduct Technologies”, Dynamic Games in Economic Analysis, in Vol. 157 of, Lecture Notes in Control and Information Sciences, R. Hämmäläinen and H. Ehtamo (eds.), Springer-Verlag, pp. 39-47, 1991. (with L.-H. Röller).

“Assessing Economic Inequality”, Operational Research and the Social Sciences, M.C. Jackson, P. Keys, and S.A. Cropper (eds.), Plenum Pub., N.Y., 1989. (with B. Sinclair-Desgagné).

Papers under Review

“Competition between For-profit and non-profit healthcare suppliers and quality” with Rune Stenbacka

Working Papers

“Who’s Number One? Asymmetric Production Costs as determinants of Quality Rankings”, with Sergio Meza

“Strategic Investment Competition: Theory and Empirical Evidence”, with R. Stenbacka.

“Multistage Procurement Auctions”, with Wei Wang.

“A Theory of Occupational Choice: Employment vs. Entrepreneurship” with Veikko Thiele

Other publications

“The Innovation Defense”, 2016, *Canadian Competition Law Review*, Vol. 29, No. 1, pp. 41-56.
Winner of the Bill Miller Memorial Award for best paper in 2016 from Canadian Bar Association Competition Law Section

“Theories of the Firm: A commentary”, *The Corporation in the 21st Century*, Jasmine Lew (ed.), Queen’s University Press, 2004.

“Size matters doesn’t mean size works”, *Policy Options*, Vol. 24, No. 3, Issue on Bank Mergers, March, 2003, Institute for Research on Public Policy (IRPP) publication, Montreal, Canada (with E. Neave).

“Exclusive Research Joint Ventures”, *International Business Lawyer*, November, 1995, Vol. 23, No. 10, pp. 470-473, (with L.-H. Röller).

Invited book review: Made in America, M. Dertouzos, R. Lester, R. Solow, and the M.I.T. Commission on Industrial Productivity, *Managerial and Decision Economics*, Vol. 13, January-February, 1992, pp. 83-85, (with L.-H. Röller).

Other publications (cont'd)

“Science and Technology Policy Options for the Republic of Estonia”, 1996, (with ETLA - The Research Institute of the Finnish Economy, C 73 Series), Taloustieto Oy, ISBN 951-628-239-3.

Work in Progress

“Nonprofit and for-profit competition (or cooperation) in basic research” with Rune Stenbacka

Courses Taught

At the Ph.D. level: Economics of Innovation

Industrial Organization

Optimization Methods

Production and Operations Management

Executive MBA level: Management of Technology

Competitive Strategy

Project Management

Operations Management

Quality Management

Masters level: Technology Management, Economics of Business Strategy, Technology Policy

Industrial Organization, Technology Strategy,

Economics of Technological Innovation

Competition Policy

Production and Operations Management

Operations Research

Undergraduate: Operations Management

Technology Strategy

Competitive Strategy

Operations Strategy

Professional Activities

Associate Editor: *Production and Operations Management*, 2003 - 2012

Asian Journal of Operations Management, 2001 – 2010

International Journal of Industrial Organization, 2000 – 2005.

Referee for: *American Economic Review*, *European Economic Review*, *Journal of Economic Theory*,

Journal of Industrial Economics, *International Journal of Industrial Organization*,

Management Science, *Operations Research*, *Journal of Mathematical Economics*,

Journal of Economics and Management Strategy, *Economica*,

Canadian Journal of Economics, and many other journals.

Professional Activities (cont'd)

Client Organizations: Department of Foreign Affairs and International Trade Canada, Canada Post, World Bank--Africa Technical Department, Organization for Economic Cooperation and Development (OECD), Ministry of Industry and Trade – Finland, Price Waterhouse European Firms, Bank of Montreal Financial Group, Government of British Columbia - Science and Technology Division, Northern Telecom - Digital Switching Division.

Chairman, Academic Advisory Board for Economics, EuroFaculty, 1997-2000.

Organizer: OECD-EC Workshop on the Economics of the Information Society, Porvoo, Finland, June, 1996.

Executive Committee member, European Association for Research in Industrial Economics (EARIE), 1999-2006.

Steering and Evaluation Committee member for Finnish Polytechnics 1998-1999.

Organizer for: “New Trends in Competitive Strategy and Economics” Conference, CIRANO, Montreal, June, 2002.

Chairman, Panel for Ontario Graduate Scholarships, Doctoral, Management Division, 2003.

Charter member of Canadian Chapter of the International Association of Innovation Professionals, Member of Board of Directors, 2014.

Board of Directors, Estonian (Toronto) Credit Union (\$100 million in assets), 2008 -2015; Chairman of the Audit Committee 2009 – 2011; Vice-Chairman of the Board 2011 – 2012; Chairman of the Board 2012 -2015