

## Three page CV: Ove Granstrand, Chalmers University of Technology, December 31, 2018

### EDUCATION

Ph.D., Industrial Management and Economics, Chalmers University of Technology, 1979  
M.Sc., Stanford University (Operations Research, 1972)  
MBA, Graduate School of Business in Gothenburg (Excellent with Distinction in Business Economics 1971)  
M.Sc., University of Gothenburg (Mathematics 1969, Excellent with Distinction in Mathematics 1971)  
M.Sc., Chalmers University of Technology (Mechanical Engineering 1969)

### POSITION

Professor in Industrial Management and Economics, Chalmers Univ. of Technology, Gothenburg, Sweden  
Member of Royal Swedish Academy of Engineering Sciences  
Founder and Chairman, Center for Intellectual Property Studies at Chalmers Univ. of Technology and Gothenburg Univ.  
Former member of the Governing Board of University of Jönköping, Sweden  
Visiting professor at various foreign universities and academies (especially Stanford but also MIT, SPRU, Academia Nauk/Moscow, Aalto Univ/Finland, KTH, Stockholm School of Economics, University of Cambridge)  
Member of international company boards and EC expert panels  
Founding member of European Institute of Technology and Innovation Management (EITIM)

### RESEARCH INTERESTS AND EXPERIENCE

Research, teaching and consultancy on various issues in the economics and management of technology and innovation, for example, management and economics of multitechnology corporations in Europe, Japan and the USA, internationalization of R&D, technology and IPR strategies and policies, internationalization and diversification in info-com industries, policies for promoting innovation and diffusion, technology policies and industrial economics, methods and theory for techno-economic analysis, economics and management of intellectual property and intellectual capital. He has published many books and articles on these topics with his most recent book being *Evolving Properties of Intellectual Capitalism - Patents and Innovations for Growth and Welfare*, as a companion to his 1999 book *The Economics and Management of Intellectual Property - Towards Intellectual Capitalism*.

### MAIN RESEARCH PROGRAMS

1) **Intellectual assets, innovation, growth and value creation and the role of new digital technologies and digital property (ITIP)**. This program started 2017 and aims to increase our managerial, economic, legal and technological (MELT) knowledge about a) the theoretical and empirical relations between the 5 key factors: R &D, intellectual assets (IAs), innovations, growth and societal value creation. b) how digital technologies interact with these relations. Research program leader. Funded by Vinnova. Examples of projects in the program portfolio are:

- a) R&D, IP, innovations, growth and social value creation – an international statistical analysis.
- b) Valuation and value sharing of multiple IPRs and IAs and the consequences for R&D strategies.
- c) Modelling of IAs, innovations and endogenous recombinant economic growth.
- d) Patent information analysis.
- e) Role and design of IPRs for data based industries.
- f) Development of FRAND based licensing and pricing on IA / IP markets

2) **Management, Economics and IP Strategies in Innovation and Business Development Processes (the MELT-project)**. 2008–2013. Research program leader. Funded by Vinnova and industry. Projects are (ODI=Open, Distributed Innovation):

- a) General Framework, models and tools for ODI-management
- b) Knowledge, learning and IP-sharing in ODI-collaborations
- c) Generalizability of open source type of technological collaborations
- d) Technology and patent exploitation strategies
- e) Distributed innovations, employee mobility and intellectual property
- f) Joint analysis of patent information and publication information analysis
- g) Managing ODI in SMFs

### PUBLICATIONS

**Selected books** (Released around 20 books, most published in English.)

*Evolving Properties of Intellectual Capitalism: Patents and Innovations for Growth and Welfare.* Edward Elgar Publ., Cheltenham, UK, 2018.

*Industrial Innovation Economics and Intellectual Property* (7th ed.). Svenska Kulturkompaniet, Gothenburg, Sweden, 2018.

*The Economics and Management of Technological Diversification.* Co-edited with Cantwell, J. and Gambardella, A., Routledge, London, 2004.

*Economics, Law and Intellectual Property.* (Editor), Kluwer Academic Publishers, Dordrecht, 2003.

*The Economics and Management of Intellectual Property – Towards Intellectual Capitalism.* Edward Elgar Publ., Cheltenham, UK, 1999. (Paperback, 2000).

*Economics of Technology.* Emerald Group Publishing Limited, UK, 1994.

*The Race to European Eminence. Who are the coming Tele-Service Multinationals?* Co-edited with Bohlin, E., Elsevier, Amsterdam, Netherlands, 1994.

*Technology Management and International Business: Internationalization of R&D Technology.* Co-edited with Håkansson, L. and Sjölander, S., Wiley, Hoboken, USA, 1992.

*Technology, Management and Markets.* Pinter Publ., London, 1982.

### **Selected articles and reports** (The complete CV includes close to 200 articles and reports.)

‘Patents and policies for innovations and entrepreneurship.’ In Takenaka, T. (eds): *Patent Law and Theory – A Handbook of Contemporary Research* (2nd ed.). Edward Elgar Publishing, (Forthcoming).

‘The evolution of intellectual property management in innovation ecosystems: Uncovering complementary and substitute appropriability regimes’ Co-authored with Holgersson, M., and Bogers, M. In *Long Range Planning*, Vol. 51, No. 2, 2018.

‘Patenting motives, technology strategies, and open innovation.’ Co-authored with Holgersson, M. In *Management Decision*, Vol. 55, No. 6, 2017.

‘The importance of patents for innovation appropriation and open financing – a new view.’ Co-authored with Holgersson, M. Paper presented at ”R&D Management Conference”, Cambridge, UK, 2016.

‘IP strategies for evergreening of sequential innovations.’ Co-authored with Tietze, F. Paper presented at the “R&D Management Conference”, Cambridge, UK, 2016.

‘Det finns (ännu) inga patentlösningar i innovationspolitiken. Eller?’ In McKelvey, M., and Zaring, O. (eds): *Sveriges entreprenöriella ecosystem – Företag, akademi, politik*, ESBRI, Stockholm, Sweden, 2016, Chapter 10, pp. 280-301.

‘History of Patenting and IP Management.’ In *Entreprises et histoire*, Vol. 1, No. 82, pp. 103-123, 2016.

‘Intellectual Property.’ Co-authored with Holgersson, M. Published in *The Wiley-Blackwell Encyclopaedia of Consumption and Consumer Studies*, 2015.

‘IP Strategies and Policies for and against Evergreening.’ Co-authored with Tietze, F. CIM Working paper 2014: 4. Paper presented at the EPIP conference, Brussels, Belgium, September 4-5, 2014.

‘Innovation and Patent Policies for Improving Linked Innovation Systems – The Case of Sweden with an Outlook on Europe.’ Paper presented at the EPIP conference, Brussels, Belgium, September 4-5, 2014.

‘Multinational technology and intellectual property management – Is there global convergence and/or specialization?’ Co-authored with Marcus Holgersson. *International Journal of Technology Management*, Vol. 64, Nos. 2/3/4, pp. 117-147, 2014.

‘The challenge of closing open innovation.’ Co-authored with Marcus Holgersson. *Research-Technology Management*, Vol. 57, No. 5, pp. 19-25, 2014.

‘Managing the intellectual property disassembly problem.’ Co-authored with Holgersson, M. *California Management Review*, Vol. 55, No. 4, pp. 184-210, 2013.

‘The 25% rule revisited and a new investment-based method for determining FRAND licensing royalties.’ Co-authored with Holgersson, M. *Les Nouvelles*, 2012.

‘The anatomy of rise and fall of patenting and propensity to patent: The case of Sweden.’ Co-authored with Holgersson, M. *International Journal of Intellectual Property Management*, 2012.

'Intellectual Property and Licensing Strategies in Open Collaborative Innovation.' Co-authored with Bogers, M., and Bekkers, R. Published in Heredero, C., and Berzosa, D.: *Open Innovation in Firms and Public Administrations: Technologies for Value Creation*. Published by IGI Global, Hershey, USA, 2011.

'The Economics and Management of New Sustainable Technologies - Was Coase About Right About IP Rights?' Paper presented at The International R&D Management Conference on Innovation and Sustainability, Norrköping, Sweden, June 28-30, 2011.

'From Environmental Protection towards Sustainable Innovation Management - Incentives and Governance Structures.' Paper presented at The International R&D Management Conference on Innovation and Sustainability, Norrköping, Sweden, June 28-30, 2011.

'Patents and Policies for Innovations and Entrepreneurship.' Chapter contribution to Takenaka, T. and Moufang R. (eds): *Patent Law and Theory – A Handbook of Contemporary Research*, Edward Elgar Publishing, 2009, pp.66-100.

'Fair and reasonable royalty rate determination'. *LES Nouvelles*, Sept. 2006, Vol. XLI, No. 3, pp. 179-181.

'Intellectual property rights for governance in and of innovation systems.' In Birgitte Andersen, ed: *Intellectual Property Rights: Innovation, Governance and the Institutional Environment*, Edward Elgar Publishing, 2006, Chapter 10, pp. 311-343.

'Innovation and Intellectual Property Rights.' Chapter 10, *Oxford Handbook of Innovation*, edited by Fagerberg, J., Mowery, D., and Nelson, R. Oxford University Press (2005).

'The Economics and Management of Technology Trade – Towards a pro-licensing era?' *International Journal of Technology Management*, Vol. 27, Nos 2/3, 2004, pp. 209-240.

'The Scientometric World of Keith Pavitt.' Co-authored with Meyer, M., Pereira, T.S., and Persson, O. Paper presented at the Conference in honour of Keith Pavitt, Science Policy Research Unit, UK, November 2003. *Research Policy* 2004, 33, pp. 1405-1417.

'Strategic Use and Adaptation of Intellectual Property Rights (IPR) Systems in Information and Communications Technologies (ICT) -based Research.' Final report by an Expert Group for the European Commission, Chairman Ove Granstrand, March, 2003.

'Role and Strategic Use of Intellectual Property Rights in International Research Collaborations.' Final report prepared by an EU Expert Group, Brussels, 2002.

'Corporate Management of Intellectual Property in Japan.' *International Journal of Technology Management*, 2000, Vol. 19, No. 1/2, pp. 121-148.

'The Shift Towards Intellectual Capitalism – The Role of Infocom Technologies.' *Research Policy*, 2000, Vol. 29, No. 9, pp. 1061-1080.

'Strategic Dimensions of Intellectual Property Rights in the Context of Science and Technology Policy.' Final report prepared by an independent ETAN Expert Working Group for the European Commission, Directorate General XII, Brussels, 1999.

'Internationalization of corporate R&D: a study of Japanese and Swedish corporations.' *Research Policy*, 1999, Vol. 28, No 2-3, pp. 275-302.

'Towards a Theory of the Technology-Based Firm.' *Research Policy*, 1998, Vol. 27, No. 5, pp. 467-491.

'Multi-Technology Corporations: Why they have 'distributed' rather than 'distinctive' core competence.' Co-authored with Patel, P. and Pavitt, K. *California Management Review*, 1997, Vol. 39, No. 4, pp. 8-25.

'The evolution of corporate entrepreneurship in Swedish industry – Was Schumpeter wrong?' Co-authored with Alänge, S. *Journal of Evolutionary Economics*, 1995, Vol. 5, pp. 1-24.

'Technology Diversification in 'MUL-TECH' Corporations.' Co-authored with Oskarsson, C. *IEEE Transactions on Engineering Management*, 1994, Vol. 41, No. 4, pp. 355-364.

'Internationalization of R&D – a survey of some recent research.' Co-authored with Håkansson, L. and Sjölander, S. *Research Policy*, 1993, Vol. 22, pp. 413-430.

'External technology acquisition in large multi-technology corporations.' Co-authored with Bohlin, E., Oskarsson, C. and Sjöberg, N. *R&D Management*, 1992, Vol. 22, No. 2, pp. 111-133.

'Managing innovation in multi-technology corporations.' Co-authored with Sjölander, S. *Research Policy*, 1990, Vol. 19, No. 1, pp. 35-60.

'The acquisition of technology and small firms by large firms.' Co-authored with Sjölander, S. *Journal of Economic Behavior and Organization*, 1990, 13, pp. 367-386.