

# Curriculum Vitae

## Jan Bröchner

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Born in Stockholm, Sweden, 1948, married. Swedish citizen.

### Address

Division of Service Management and Logistics  
Department of Technology Management and Economics  
Chalmers University of Technology  
SE-412 96 Göteborg, Sweden

### Fields of interest

Facilities management, construction management

### Education

Royal Institute of Technology (KTH), Stockholm, Tekn.dr [PhD] in Building Economics and Organization, 1978

University of Stockholm, Fil.kand. [BA], major subject Economics, minor subjects Literature and Philosophy, 1974

Royal Institute of Technology (KTH), Stockholm, civ.ing [MSc] in Civil Engineering, 1971

### Employment

Chalmers University of Technology, Professor (Chair) of Organization of Construction, specializing in Facilities Management, 1998 - 2018; Emeritus Professor, 2019 - ;

Royal Institute of Technology, Acting Professor of Construction Management, 1994 - 1996  
Development Fund of the Swedish Construction Industry (SBUF), Research Manager, 1990 - 1998

Royal Institute of Technology, Associate Professor, Technology and Economics of Facilities Management, 1987 - 1990

Armerad Betong Vägförbättringar AB, Stockholm Division, Abvac AB, 1985 - 1988

Royal Institute of Technology, Associate Professor, Building Economics and Organization, 1985 -

Royal Institute of Technology, Senior Lecturer, Building Economics and Organization, 1980 - 1986

Swedish Council for Building Research, Senior Research Officer, 1979 - 1980

Royal Institute of Technology, research and teaching assistantships, 1972 - 1978

### Other appointments

Erhvervs- og Byggestyrelsen (National Agency for Enterprise and Construction, Denmark), Advisor, Implementation of Digital Construction, 2002 - 2003; Member of Advisory Board for the Digital Construction Programme (Det Digitale Byggeri), 2003 - 2006.

European Commission DGXII Brite-EuRam III Evaluation, Brussels, expert, 1996.

Formas (The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning) Assessment Group for Construction and Facilities Management, Chairman, 2002. Assessment Group for the Built Environment BIC-Formas, Chairman, 2003 - 2004, 2008 - 2011.

National Board of Housing, Building and Planning (Boverket, Sweden), Member of Research Advisory Board, 2003 - 2007.

National Board of Universities and Colleges (UHÄ), Committee on Civil Engineering Research and Education, member and secretary, 1986.

Research Council of Norway (NFR), Nordic Evaluation Group for Samspillet i Byggeprosessen (The Integrated Building Process), member, 1996 - 1999.

SBUF (Development Fund of the Swedish Construction Industry), Research Committee, Associate Member representing the universities, 2002 – 2019.

Swedish Council for Building Research (BFR), Programme & Evaluation Group for Quality, Efficiency and Economy in Construction and Facilities Management, chairman, 1996 – 2000.

### **Editorial boards of journals**

*Construction Management and Economics*, Editorial correspondent, 1993 -; Member of Editorial Board, 1999 -

*Facilities*, Regional Editor for West Europe, 1997 – 2012; member of Editorial Board, 2012 – *Journal of Facilities Management*, Member of Editorial Board, 2001 -

### **Professional affiliations**

CIB (International Council for Research and Innovation in Building and Construction), Working Commissions W55, W70, W89, W92, W103.

EuroFM Network (European Facility Management Network); board member, 1995 - 1999

IFMA (International Facility Management Association) Chapter Sweden, board member, 1996 - 1999

Industrial Researcher Group of the Royal Swedish Academy of Engineering Sciences (IVA), member, 1991 - 1993

Swedish professionals for the built environment (earlier Swedish Society of Civil and Structural Engineering): member; Stockholm Chapter, board member, 1995 - 1998; SVR Project Management Group, chairman, 1995 – 1999.

Swedish Society for Town and Country Planning (FFS): member; board member, 1982 - 1994, vice chairman, 1992 - 1994; Mälardalen Chapter, chairman, 1984 - 1994

The Stockholm Building Society (Stockholms Byggnadsförening), member, 1984-

### **Seminar presentations and conference activities (2012-)**

Samhällsbyggnadsdagarna, Stockholm, 1 October 2018. Presentation: “Nya och farliga affärsmodeller” (New and hazardous business models).

28<sup>th</sup> RESER Conference, RESER 2018, September 20-22, 2018, Gothenburg. Session chair. (Also member of Organizing Committee).

Spring Servitization Conference SSC2018, Copenhagen, 15 May 2018. Presentation: Servitization effects on customer productivity.

CFM 10 Years Anniversary Conference, Copenhagen, 27 February 2018. Presentation: FM research internationally.

International Research Conference: Shaping Tomorrow’s Built Environment, Salford, 11-12 September 2017. Session chair, CIB W70 Facilities Management and Maintenance. Presentation: Facilities management and trends in business services research.

27<sup>th</sup> RESER Conference, RESER 2017, September 7-9, 2017, Bilbao. Session chair: Developing new value propositions. Presentation: Comparing measurement for facility management and industrial maintenance.

9<sup>th</sup> Nordic Conference on Construction Economics and Organization, Gothenburg, 13-14 June 2017. Session chair.

9<sup>th</sup> Service Operations Management Forum (SOMF 2017), Copenhagen Business School, 19-20 January 2017. Presentation: “Coordination in slowly emerging ecosystems: construction history”.

RESER2016 Conference, Naples, 8-10 September 2016. Presentation: “Construction sector service ecosystems”.

CFM 2<sup>nd</sup> Nordic Conference Facilities Management Research and Practice, Copenhagen, 29-30 August 2016. Chair, session on “Hvordan kan implementering af IT i FM forbedres?” (How can IT implementation in FM be improved?),

CIB 2015 Going North for Sustainability. London, 23-25 November 2015. Panel member, Questions & Answers on Sustainability.

- Sveriges Byggindustrier (BI) Forskningskonferens, Stockholm, 17-18 November 2015.  
Presentation: "Fler totalentreprenader på anläggningsmarknaden" (More design-construct projects in the infrastructure market).
- RESER2015 Conference. Copenhagen, 10-12 September 2015. Session chair (ICT and the urban; KIBS and internationalisation and outsourcing).
- HSS2015 (Högskola och Samhälle i Samverkan), Kalmar, 29 May 2015. Panel discussant "Hållbart samhällsbyggande" (Sustainable built environment).
- Ejendomsbransjens forskningsdag 2015, Oslo, 20 January 2015. Presentation: "Fastighetsrelaterad Chalmersforskning" (Real estate related Chalmers research).
- CIB Facilities Management Conference, Copenhagen, 21-23 May 2014. Session (FM innovation and technology) chair.
- Offentlig upphandling och hållbart byggande, Malmö, 1 February 2013. Presentation: "Drivkrafter för bygginnovationer" (Construction innovation drivers).
- EFMC 2012 European Facility Management Conference & 11<sup>th</sup> EuroFM Research Symposium, Copenhagen, 24 May 2012. Observer report in plenary: Research Symposium.
- NETLIPSE European Infrastructure Procurement Symposium, Copenhagen, 8 May 2012. Presentation: "Trust and Innovation" (with B. Kruse).
- The Normative Anatomy of Society, International Conference, Lund, 25 April 2012. Presentation: "Shifts in the business metaphor in recent Swedish legislation" (with K. Åström).

### **Supervised PhD theses at Chalmers University of Technology**

- Sezer, A.A. Construction Performance Measurement: Site Managers in Refurbishment Projects (2016)
- Eriksson, T. Designing the Design Organisation: Client-Consultant Coordination in a Large Infrastructure Project (2016)
- Mokhlesian, S. Contractors in Green Construction: Relationships to Suppliers and Developers (2014)
- Sporrong, J. Selecting Architectural and Engineering Consultants: Municipal Practices in Sweden (2014)
- Waara, F. Awarding Construction Contracts in Public Procurement: Using Multiple Criteria. (2008)
- Dettwiler, P. Facilities Management of the Offices of Growth Firms: Phases and Location. (2006)
- Holm, M.G. Service Quality in Refurbishment: Craftsman-User Interaction. (2000)
- Sverlinger, P.-O. Managing knowledge in professional service organizations: technical consultants serving the construction industry. (2000)

### **Currently supervised PhD students**

- Charlotte Svensson Tengberg  
Arne Ziegert

### **University service**

- Chalmers University of Technology: School of Technology Management and Economics, Sektionskollegiet, chairman, 2003 – 2004; Head of Department (later Division) , Department (later Division) of Service Management, 1999 – 2016; Centre for Management of the Built Environment (CMB), , board member 1999 - 2016, member (chairman 1999 - 2000) of Research Committee, 1999 – 2004; Chalmersfastigheter AB, board member, 2006 – 2010
- Copenhagen Business School: Evaluation of Center for Management Studies of the Building Process, 2010

Royal Institute of Technology (KTH): Educational Board of the School of Civil Engineering, chairman, 1984-87

Technical University of Denmark: Center for Facilities Management, Member of Scientific Committee, 2007 – 2013.

Official opponent for PhD dissertations: Royal Institute of Technology (KTH) 1981, 1992, 2007, 2008; Swedish School of Economics and Business Administration (Hanken, Helsinki) 2010.

Censor member of PhD dissertation committees: Chalmers University of Technology 1992, 2002, 2011, 2012 (twice), 2013, 2015, 2016, 2019; Copenhagen Business School 2002; Göteborg University 2000; Luleå University of Technology 2007, 2011; Lund University 2003; Norwegian University of Science and Technology 2002, 2019; Roskilde University 2021, 2014; Royal Institute of Technology (KTH) 1986, 1993, 1994, 1998, 1999, 2007, 2010; Stockholm School of Economics 2002; Technical University of Denmark 2006.

External reviewer of applications for professorships: Aalto University 2014; Arizona State University 2004; Ben-Gurion University of the Negev 2004; Copenhagen Business School 2003; Glasgow Caledonian University 2002; Halmstad University 2017; The Hong Kong Polytechnic University 2003; Lund University 2011; Norwegian University of Science and Technology 2017; Technical University of Denmark 1998/99; Worcester Polytechnic Institute 1998; The University of Hong Kong 2017.

## Publications

### 1. Dissertation

Economic aspects of housing rehabilitation: modernizing flats in Sweden, 1971-1975. Tekn.Dr dissertation. Stockholm, 1978. (Swedish Council for Building Research, Document D5:1978)

### 2. Articles in refereed journals

- Site managers' ICT tools for monitoring resources in refurbishment. *Engineering, Construction and Architectural Management*, forthcoming. (With Ahmet Anil Sezer)
- Shaping the future of facilities management. *Facilities*, Vol. 37, 2019, No. 7/8, pp. 366-380. (With Tore I. Haugen and Carmel Lindkvist)
- Comparing performance measurement for industrial maintenance and facility management. *European Review of Service Economics and Management*, Vol. 5, 2018, No. 1, pp. 45-63.
- Construction economics and economics journals. *Construction Management and Economics*, Vol. 36, 2018, No. 3, pp. 175-180.
- Integrating contractor and property developer for product system innovations. *Facilities*, Vol. 35, 2017, No. 9/10, pp. 511-524. (With Magnus Holmén and Shahin Mokhlesian)
- Measuring the productivity of facilities management. *Journal of Facilities Management*, Vol. 15, 2017, No. 3, pp. 285-301.
- Coordination in slowly emerging service ecosystems: construction history. *European Review of Service Economics and Management*, Vol. 2, 2016, No. 2, pp. 17-41.
- Quality and legal aspects in public care procurement. *The TQM Journal*, Vol. 28, 2016, No. 4, pp. 648-663. (With Carolina Camén, Henrik Eriksson and Rikard Garvare).
- From ideas to construction innovations: firms and universities collaborating. *Construction Economics and Building*, Vol. 16, 2016, No. 1, pp. 76-89. (With Ove Lagerqvist)
- Intention in hybrid organizations: The diffusion of the business metaphor in Swedish laws. *International Journal for the Semiotics of Law*, Vol. 28, 2015, No.2, pp. 371-386. (With Karsten Åström and Stefan Larsson)

- The construction productivity debate and the measurement of service qualities. *Construction Management and Economics*, Vol. 32, 2014, No. 6, pp. 565-574. (With Ahmet Anil Sezer)
- Construction patents and university-industry research interaction: An analysis of Nordic region data. *Construction Innovation*, Vol. 13, 2013, No. 4, pp. 410-423.
- Construction productivity growth and business services. *Économies et Sociétés*, Vol. 47 EGS, 2013, No. 3-4, pp. 509-529. (With Ahmet Anil Sezer)
- Construction productivity measures for innovation projects. *Journal of Construction Engineering and Management*, Vol. 138, 2012, No. 5, pp. 670-677. (With Thomas Olofsson)
- Changes and change management in construction and IT projects. *Automation in Construction*, Vol. 20, 2011, No. 7, pp. 767-775. (With Ulrika Badenfelt)
- Editorial: Service-led construction projects. *Construction Management and Economics*, Vol. 28, 2010, No. 11, pp. 1123-1129. (With Roine Leiringer)
- Innovation and ancient Roman facilities management. *Journal of Facilities Management*, Vol. 8, 2010, No. 4, pp. 246-255.
- Construction contractors as service innovators. *Building Research & Information*, Vol. 38, 2010, No. 3, pp. 235-246.
- Public procurement incentives for sustainable design services: Swedish experiences. *Architectural Design and Engineering Management*, Vol. 5, 2009, No. 1, pp. 24-35. (With Josefin Sporrang)
- Construction metaphors in Aristotle: knowledge, purpose, process. *Construction Management and Economics*, Vol. 27, 2009, No. 5, pp. 515-523.
- Where to submit? Journal choice by construction management authors. *Construction Management and Economics*, Vol. 26, 2008, No. 7, pp. 739-749. (With Bo-Christer Björk)
- Construction contractors integrating into facilities management. *Facilities*, Vol. 26, 2008, No. 1/2, pp. 6-15.
- Imitating private business in public procurement: Swedish 'affärsmässigt'. *Journal of Public Procurement*, Vol. 7, 2007, No. 2, pp. 213-227 (With Karsten Åström)
- Price and nonprice criteria for contractor selection. *Journal of Construction Engineering and Management*, Vol. 132, 2006, No. 8, pp. 797-804 (With Fredrik Waara). [ASCE Journal of Construction Engineering and Management 2006 Best Paper Award]
- Identifying management research priorities. *Construction Management and Economics*, Vol. 23, 2005, No. 8, pp. 793-796 (With Per-Erik Josephson and Johan Alte)
- Managing information flow in construction supply chains. *Construction Innovation*, Vol. 5, 2005, No. 2, pp. 71-82 (With Silas Titus)
- Building users, owners and service providers: new relations and their effects. *Facilities*, Vol. 22, 2004, No. 11/12, pp. 278-283. (With Anna Kadefors)
- Cross-border post-acquisition knowledge transfer among construction consultants. *Construction Management and Economics*, Vol. 22, 2004, No. 4, pp. 421-427. (With Sara Rosander and Fredrik Waara)
- Serviced offices: owner capabilities for FM coordination. *Facilities*, Vol. 22, 2004, No. 3/4, pp. 74-78. (With Henrik Olsson and Davor Sinik)
- Quality and coordination: internationalizing Swedish building research. *Building Research & Information*, Vol. 31, 2003, No. 6, pp. 479-484. (With Christer Sjöström)
- Notes on municipal FM contracts in Sweden. *Nordic Journal of Surveying and Real Estate Research, Special Series*, Vol. 1, 2003, pp. 45-51.
- Office space change in six growth firms. *Facilities*, Vol. 21, 2003, No. 3/4, pp. 58-65. (With Paul Dettwiler)
- Integrated development of facilities design and services. *Journal of Performance of Constructed Facilities*, Vol. 17, 2003, No. 1, pp. 19-23.
- Outsourcing facilities management in the process industry: a comparison of Swedish and UK patterns. *Journal of Facilities Management*, Vol. 1, 2002, No. 3, pp. 265-271. (With Per Adolfsson and Marcus Johansson)

- Swedish construction culture, quality management and collaborative practice. *Building Research & Information*, Vol. 30, 2002, No. 6, pp. 392-400. (With Per-Erik Josephson and Anna Kadefors)
- Office conversions: the effects of craftsman-user interaction. *Facilities*, Vol. 18, 2000, No. 13/14, pp. 535-544. (With Mats G. Holm)
- Sustainability and the performance concept. *Building Research & Information*, Vol. 27, 1999, No. 6, pp. 368-373. (With Gösta Fredriksson and George K.I. Ang)
- Precontractual investigation and risk aversion. *Engineering, Construction and Architectural Management*, Vol. 1, 1994, No. 2, pp. 91-101.
- R & D Cooperation by Swedish Contractors. *Journal of Construction Engineering and Management*, Vol. 118, 1992, No. 1, pp. 3-16. (With Bertil Grandinson)
- Information technology and facilities management. *Facilities*, Vol. 9, 1991, No. 1/2, pp. 28-33.
- Impacts of information technology on the structure of construction. *Construction Management and Economics*, Vol. 8, 1990, No. 2, pp. 205-218.

### 3. Papers in refereed conference proceedings

- Performance-based requirements in design-build contracting for highway construction and maintenance. In *Proc. International Federation for Structural Concrete 5th International fib Congress, Melbourne, 7-11 October 2018*. (With Johan Silfwerbrand)
- Servitization effects on customer productivity. In *Proc. Spring Servitization Conference SSC2018, Copenhagen, 14-16 May 2018*, pp. 207-213.
- Design-Build, innovation, and competition: The role of smaller contractors. In *Proc. ICCREM 2017, Guangzhou, November 10-12, 2017*, pp. 11-18. (With Johan Nyström and Svante Mandell)
- Exploring alternatives in early design of large infrastructure projects. In *Proc. Transport Research Arena, Paris, 14-17 April 2014*. (With Therese Eriksson and Anna Kadefors)
- Services, goods and business client productivity: Learning from construction. In *Productivity of Services NextGen – Beyond Output/Input, Proc. XXI. International RESER Conference, Hamburg, 8- 9 September 2011*, ed. W. Ganz, F. Kicherer and A. Schletz, pp. 88-89. Stuttgart: Fraunhofer IAO. (With Ahmet Anil Sezer)
- New output quality indicators in construction productivity measurement. In *Proc. Management and Innovation for a Sustainable Built Environment, 20-23 June 2011, Amsterdam, The Netherlands*.
- Does construction partnering research reflect changes in society? In *Proc. 6th Nordic Conference on Construction Economics and Organisation, Copenhagen 13-15 April 2011*. Vol. 3, pp. 505-516.
- Public procurement of architectural and engineering services: fee and quality. In *Managing IT in Construction/Managing Construction for Tomorrow*, ed. A. Dikbas, E. Ergen and H. Giritli, pp. 683-688. Leiden: CRC Press/Balkema, 2009. (With Josefin Sporrang and Anna Kadefors)
- Process industry capabilities and performance-based integrated maintenance service contracts. In *RESER 2008 New horizons for the role and production of services, Stuttgart, September 25<sup>th</sup>-26<sup>th</sup> 2008*, p. 78. (With Johan Hedlund and Petra Jacoby)
- Multicriteria awards of construction contractors: do Swedish administrative courts support or hinder sustainability. In *Proceedings, CIB W92 Symposium on Sustainability and Value Through Construction Procurement, Salford, UK, 29 November - 2 December 2006*, pp. 72-78. (With Karsten Åström)
- Construction contractors as service innovators: A Swedish study. In *Proceedings Joint 2006 CIB W065/W055/W086 Symposium Construction in the XXI Century: Local and Global Challenges, Rome, 18-20 October 2006* (Edizioni Scientifiche Italiane), pp. 38-39.
- Achieving employee satisfaction in FM outsourcing processes. In *Proceedings CIB W70 Trondheim International Symposium*, ed. T.I. Haugen, A. Moum and J. Bröchner.

- Trondheim, 2006 (Norwegian University of Science and Technology), pp. 327-333. (With Mats Holm).
- Contractors and design risk in major civil works design/build projects. In *Proceedings, First International Construction Specialty Conference, ICSC-1, Calgary, Canada, 23-26 May 2006*. pp. CT-031-1—9. (With Ulf Håkansson and Lars Hässler)
- Multi-criteria contractor selection in practice. In *Proc. CIB W92 International Symposium on Procurement Systems, Las Vegas, 8-10 February 2005*, pp. 167-172. (With Fredrik Waara)
- Outsourcing facilities services: needs and practices of Swedish owners of commercial property. In *Proc. CIB W70 Facilities Management and Maintenance International Symposium, Hong Kong, 7-8 December 2004*, pp. 395-400. (With Stefan Carlsson and John Nyman)
- University-industry collaboration in Swedish construction project management: patterns and experiences. In *Proc. 3<sup>rd</sup> Scientific Conference on Project Management: Clusters in Construction Project Management, Thessaloniki, 24-25 September 2004*, pp. 79-83. (With Anna Kadefors and Sven Gunnarson.)
- Growth, knowledge and culture: technical consultants in construction. In *Proc. CIB W55, W65, W107 Joint International Symposium Knowledge Construction, Singapore, 22-24 October 2003*, pp. 65-75. Singapore: Department of Building, National University of Singapore and CIB, 2003. (With Per-Olof Sverlinger.)
- Office space change among growth companies in the service sector: case studies in Western Sweden. In *Proc. CIB W70 2002 Global Symposium on Facilities Management and Maintenance, Glasgow, 18-20 September 2002*, pp. 392-402. (With Paul Dettwiler.)
- Keynote: Building Economics and Facilities Management: Knowledge and Incentives. In *Proc. CIB 10<sup>th</sup> International Symposium Organization and Management of Construction, University of Cincinnati, 9-13 September 2002*.
- Applying principles of service management: is the construction sector different? In *Proc. CIB 10<sup>th</sup> International Symposium Organization and Management of Construction, University of Cincinnati, 9-13 September 2002*, pp. 131-142.
- Product and process quality aspects of ready-mixed concrete technologies. In *Proc. First International Conference on Construction in the 21st Century (CITC2002), 25-26 April 2002, Miami, Florida*, pp. 283-287. (With Arne Ziegert).
- Keynote: Construction Business Research in a Knowledge Economy. In *Proc. 2<sup>nd</sup> Nordic Conference on Construction Economics and Organization, 24 – 25 April 2001, Göteborg, Sweden*, pp. 13-18. Göteborg, 2001 (Department of Building Economics and Management, Department of Service Management, Chalmers University of Technology) (also co-editor of Proceedings)
- Understanding service qualities in facilities management: a transaction cost approach. In *Proc. Brisbane 2000 CIB W70 International Symposium on Facilities Management and Maintenance, 15-17 November 2000*, pp. 455-459.
- Contractual relations and information flows to building users in refurbishment projects. In *Information and Communication in Construction Procurement, Proceedings CIB W92 Procurement System Symposium, 24-27 April 2000, Santiago, Chile*, ed. A. Serpell, pp. 727-732. Santiago, 2000 (Pontificia Universidad Católica de Chile) (With Mats G. Holm)
- Traditional or nontraditional contracts: six innovative construction projects. In *Information and Communication in Construction Procurement, Proceedings CIB W92 Procurement System Symposium, 24-27 April 2000, Santiago, Chile*, ed. A. Serpell, pp. 801-806. Santiago, 2000 (Pontificia Universidad Católica de Chile) (With Håkan Selg)
- Strategies for error reduction in building: attitudes to continuity and control in seven projects. In *Proc. Nordic Seminar on Construction Economics and Organization, 12 – 13 April, 1999, Göteborg, Sweden*, pp. 265-272. Göteborg, 1999 (Department of Management of Construction and Facilities, Chalmers University of Technology) (With Per-Erik Josephson)

- Keynote: Between manufacturing and services: where does research stand? In *Proc. Nordic Seminar on Construction Economics and Organization, 12 – 13 April 1999, Göteborg, Sweden*, pp. 13-16. Göteborg, 1999 (Department of Management of Construction and Facilities, Chalmers University of Technology) (also co-editor of Proceedings)
- Satisfying the ultimate customer in housing refurbishment. In *Facilities Management and Maintenance, Proceedings CIB W70 International Symposium on Management, Maintenance and Modernization of Building Facilities, 18-20 November 1998, Singapore*, ed. L.K. Quah, pp. 205-212. Singapore, 1998 (McGraw-Hill). (With Mats G. Holm)
- Links between innovations in performance measurement and the provision of facilities with innovative technologies. In *Procurement - a Key to Innovation, Proc. of the CIB W92 Symposium, 19-23 May 1997, Montreal*, ed. C.H. Davidson and T.A. Meguid, pp. 51-60. (With Alf Johansson)
- Winter road maintenance - a Swedish typical case. In *Proc. of the Xth PIARC International Winter Road Congress, 16-19 March 1998, Luleå, Sweden. Technical Report Vol. 1*, pp. 209-218. (With Alf Johansson)
- Feedback from Facilities Management to design and construction. In *The Organization and management of Construction*, ed. D.A. Langford and A. Retik, Vol. 3, pp. 238-246. London, 1996. (CIB W65, E & FN Spon)
- Time and resource use feedback from construction. In *Economic Management of Innovation, Productivity and Quality in Construction: CIB W55 Building Economics 7<sup>th</sup> International Symposium, Zagreb, 4 - 7 September, 1996*, ed. M. Katavic, Vol. I, pp. 37-46. Zagreb, 1996. (Faculty of Civil Engineering, University of Zagreb)
- Construction process models for change. In *Proceedings, First International Conference on Construction Project Management, Singapore, January, 1995*, ed. K T Yeo, pp. 67-74. Singapore, 1995.
- Minimal procurable units as objects in construction process modelling. In *Product and Process Modelling in the Building Industry, Proc. ECPPM'94, Dresden, 5-7 October, 1994*, ed. R.J. Scherer, pp. 281-286. Rotterdam, 1995. (Balkema)
- Contract size and contractor incentives for R&D. In *East Meets West, Proceedings of the CIB W92 Procurement Systems Symposium, Hong Kong, 4-7 Dec., 1994*, ed. S. Rowlinson, pp. 21-26. Hong Kong, 1994. (CIB Publication 175, Dept of Surveying, Hong Kong University)

#### 4. Books

- Mark, politik och rätt: om plan- och bygglagen i praktiken* (Land, politics and law: the Planning and Building Act in practice). Stockholm, 1992. (Swedish Council for Building Research, T22:1992) (With Hans Fog, Anders Törnqvist and Karsten Åström)
- Att bygga med kunskap: förnyelseförmåga i byggsektorn* (Building with knowledge: the ability to innovate in the construction sector). Stockholm, 1991. (FARådet, Swedish Council for Building Research, T20:1991) (With Eskil Ekstedt, Rolf Lundin and Hans Wirdenius)
- Det kontrollerade byggandet* (Construction controlled). Stockholm, 1989. (Carlssons) (With Hans Fog, Anders Törnqvist and Karsten Åström)

#### 5. Chapters in books

- Fungerar funktionskrav? (Do performance requirements perform?). In *Klokare upphandling* (Wiser procurement), ed. J. Bröchner and M. Granberg, pp. 17-18. Göteborg/Karlstad, 2018 (Karlstads universitet och Chalmers Tekniska Högskola).
- IT support for contractor monitoring of refurbishment projects. In *Integrating Information in Built Environments: From Concept to Practice*, eds A.X. Sanchez, K.D. Hampson and G. London, pp. 150-159. London, 2018 (Routledge). (With Ahmet Anil Sezer)



- Rättskipningen är byggande (The legal system is construction). In *Festschrift till Karsten Åström*, ed. K. Dahlstrand, pp. 95-110. Lund, 2016 (Juristförlaget i Lund).
- Sweden – collaboration for competitiveness. In *R&D Investment and Impact in the Global Construction Industry*, eds K.D. Hampson, J.A. Kraatz and A.X. Sanchez, pp. 246-260. London, 2014 (Routledge). (With Anna Kadefors)
- Kommer det byggpatent ur samverkan mellan högskolor och företag? In *Bygginnovationers förutsättningar och effekter* (Conditions for and effects of construction innovations), ed. J. Bröchner, pp. 72-79. Stockholm, 2012. (VINNOVA Rapport VR 2012:09)
- Developing construction economics as industry economics. In *Modern Construction Economics: Theory and Application*, ed. G. de Valence, pp. 14-28. London, 2011 (Spon).
- Statlig utredarkritik av svensk byggbransch – det långa perspektivet (Government commission criticisms of the Swedish construction industry: the long perspective). In *Hur står det egentligen till med den svenska byggsektorn? Perspektiv från forskarvärlden* (How is it really with the Swedish construction sector? Perspectives from academia), eds A. Landin and H. Lind, pp. 75-89. [Lund], 2011 (Sveriges Bygginstitut).
- Innovation in construction. In *The Handbook of Innovation and Services: A Multi-disciplinary Perspective*, eds F. Gallouj and F. Djellal, pp. 743-767. Cheltenham, 2010 (Edward Elgar).
- The changing nature of the built environment: An economic perspective. In *Economics for the Modern Built Environment*, ed. L. Ruddock, pp. 11-33. London, 2009 (Taylor & Francis).
- Client-oriented contractor innovation. In *Clients Driving Innovation*, eds P. Brandon and S.L. Lu, pp. 125-136. Chichester, 2008 (Wiley/Blackwell).
- Outsourcing. In *Commercial Management of Projects: Defining the Discipline*, eds D. Lowe and R. Leiringer, pp. 192-206. Oxford, 2006 (Blackwell).
- Space use among growth companies: linking the theories. In *Facilities Management: Innovation and Performance*, ed. K. Alexander, B. Atkin, J. Bröchner and T. Haugen, pp. 47-58. London, 2004 (Spon Press). (With Paul Dettwiler)
- Sweden. In *Dispute Resolution and Conflict Management in Construction: an International Review*, ed. P. Fenn, M. O'Shea and E. Davies, pp. 665-726. London, 1998 (E & FN Spon). (With Ulf Franke, Gunnar Lindgren and Lars Ranhem)
- Byggnadsens organisering, särskilt fastighetsförvaltning (Organization of construction, facilities management, in Swedish). In *Ny kunskap: nya professorer 1998*. Göteborg: Chalmers tekniska högskola, 1998, pp. 11-15.
- Pattern Transfer: process influences on Swedish construction from the automobile industry. In *Lean Construction*, ed. L. Alarcón, pp. 25-31. Rotterdam, 1997. (Balkema)
- Information management for facilities. In *Facilities Management: European Practice 96*, ed. K. Alexander, pp. 71-74. Nieuwegein, 1996. (Arko) (With Kjell Svensson)
- Dynamikens följeslagare: arkitektur och svensk ekonomi (The followers of dynamics: architecture and the Swedish economy). In *Arvet i nuet: om arkitektur och arkiv*, pp. 30-51. Stockholm, 1991. (ArkitekturMuseet Årsbok, 1991)
- Asbestos removal: quality control and technology transfer. In *Wissen transformieren: Festschrift zum 60. Geburtstag von Prof. Dipl.-Ing. Klaus Simons*, pp. 91-103. Braunschweig, 1987. (Schriftenreihe des Instituts für Bauwirtschaft und Baubetrieb, 24)

#### 6. Edited books and special issues of journals

- Guest editor (with Tore Haugen and Carmel Lindkvist) of *Facilities*, Vol. 37, 2019, Nos 7/8, 9/10.
- Klokare upphandling* (Wiser procurement), ed. J. Bröchner and M. Granberg. Göteborg/Karlstad, 2018 (Karlstads universitet, Chalmers Tekniska Högskola).
- Bygginnovationers förutsättningar och effekter* (Conditions for and effects of construction innovations). Stockholm, 2012. (VINNOVA Rapport VR 2012:09) (editor)
- Guest editor (with Roine Leiringer) of *Construction Management and Economics*, Vol. 28, 2010, No. 11. (Special issue on Service-led construction projects)

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#### 8. Articles in other journals (2001 -)

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Ombyggnadsplatschefers syn på IT och avfallsfrågor (Refurbishment site managers' view on issues of IT and waste). *Bygg & Teknik*, Vol. 109, 2017, No. 2, pp. 43-45. (With Ahmet Anil Sezer)

Ställ tekniska egenskapskrav och använd deklARATIONERNA (Formulate technical performance requirements and use the declarations). *Energi & Miljö*, 2014, No. 4, pp. 40-41. (With Jan-Olof Dalenbäck et al.)

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Effektivitetsmätt för byggsektorn – mätfrågor (Efficiency metrics for construction: issues of measurement). *Samhällsbyggaren*, 2010, No. 3, pp. 42-44.

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### 9. Reports (2001 -)

- Följeforskning BoStad2021: Delrapport 3 (Continuous evaluation of BoStad2021: Report 3). Göteborg 2019. (Department of Architecture and Civil Engineering, Chalmers University of Technology) (With Anders Svensson, Joanna Gregorowicz-Kipszak, Anders Hagson and Mathias Gustafsson)
- Förutsättningar för renovering – Danmark, Finland, Norge (Refurbishment contexts: Denmark, Finland, Norway). Sustainable Integrated Renovation, rapport 2018:2.
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- Utveckling av funktionskrav för totalentreprenader (Development of performance requirements in design-build contracting). Juni 2017. Uppdrag dnr TRV 2014/28766. (With Johan Silfwerbrand)
- Platschefer om: Avfallshantering i ombyggnadsprojekt (Site managers on: waste management in refurbishment projects). CMB Kortrapport om forskning 2017 nr 1. (With Ahmet Anil Sezer)
- Följeforskning BoStad2021: Delrapport 1 (Continuous evaluation of BoStad2021: Report 1). Göteborg 2017. (Department of Architecture, Chalmers University of Technology) (With Anders Svensson, Joanna Gregorowicz-Kipszak, Anders Hagson and Mathias Gustafsson)
- Fler totalentreprenader på anläggningsmarknaden – följder för små och medelstora företag (More design-construct contracts in the infrastructure market: consequences for small and medium enterprises). Stockholm 2016. (Sveriges Byggindustrier)(With Johan Nyström and Svante Mandell)
- Mätning av produktivitet i ombyggnadsprojekt (Measurement of productivity in refurbishment projects). Stockholm 2016. (Sveriges Byggindustrier)(With Ahmet Anil Sezer)
- Organisering och kontrakt i bergtunnelprojekt – kunskap i samverkan (Contracting for rock tunnel projects – Knowledge in collaboration). BeFo Rapport 138. Stockholm 2015. (Stiftelsen Bergteknisk Forskning)(With Anna Kadefors)
- Innovationsstrategi för det svenska samhällsbyggandet: underlag för fortsatta satsningar på innovation inom samhällsbyggandet. (Innovation strategy for the Swedish built environment industry). ([Stockholm 2012] Bygginnovationen) (With Mårten Lindström and Ove Lagerqvist)
- Värden och värdekedjor inom samhällsbyggandet (Values and value chains in construction). Stockholm 2009. (KK-stiftelsen)(With Anna Kadefors)
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- Svenska byggare innoverar (Swedish builders innovate). Stockholm 2006. (Svenska Byggbranschens Utvecklingsfond)
- Erfarenheter av riskexponering vid totalentreprenader (Experiences of risk exposition in design/build projects). SBUF 11563. August 2006. (With Ulf Håkansson and Lars Hässler)
- Anbudsvärdering vid offentlig upphandling av arkitekt- och byggkonsulttjänster – förstudie (Tender evaluation in public procurement of architectural and consultancy services: preliminary study). Göteborg 2005. (Centre for Management of the Built Environment, CMB; Division of Service Management; Chalmers University of Technology) (With Josefin Sporrang and Anna Kadefors)
- Byggsektorns utvecklingsbehov inom managementområdet (Management development needs in the construction sector). Göteborg 2004. (Centre for Management of the Built Environment, CMB; Department of Service Management; Department of COMESA, Chalmers University of Technology) (With Johan Alte and Per-Erik Josephson)
- Kontraktarrangemang för kommunal vinterväghållning i Sverige (Municipal winter road maintenance contracting in Sweden). Göteborg, 2003. (Department of Service Management, Chalmers University of Technology) (With Alf Johansson)

Tillväxtmöjligheter i det svenska byggrelaterade innovationssystemet (Growth possibilities in the Swedish construction-related innovation system). Report to VINNOVA (Swedish agency for Innovation Systems), April 2002.