

## CV: Lars Heide

### Education

- 2007 Dr. Merc. from Copenhagen Business School.  
1990 PhD from Odense University.  
1978 M.A in History and Mathematics, Aarhus University.

### Positions

- Since 2010 **Associate Professor MSK** at the Centre for Business History, Copenhagen Business School.
- 2000-2010 **Associate Professor** at the Centre for Business History, Copenhagen Business School.
- 1999-2000 **i<sup>3</sup>net Manager** at the University of Southern Denmark, Odense. i<sup>3</sup>net was an EU financed network of software engineering projects, which was coordinated from the University of Southern Denmark.
- 1995-1999 **Research Associate Professor** at Odense University/University of Southern Denmark.
- 1996-1998 **Curator and Deputy Director** at Post & Tele Museum, Copenhagen.
- 1989-1995 **Computer consultant** for computer aided instruction at twelve high schools in Denmark.
- 1985-1990 **Scholarship and adjunct associate professor** at the Institute of History, Odense University.
- 1979-1996 **Teacher and manager** at Nordfyns Gymnasium (high school).

### Selected experience

- SHOT Program Committee Chair, 2014
- Editor-in-Chief, *IEEE Annals of the History of Computing*, 2012-2015.
- Member of SHOT Program Committee 2013-2015
- Chair of PhD assessment committee at CBS, 2013.
- Chair Local Organizations of the SHOT conference in 2012 in Copenhagen, Denmark.
- Leader of the Danish sub-project of the ESF project "Europe goes Critical: The Emergence and Governance of Critical Transnational European Infrastructures", 2007-2010.
- Chair of search committee for Associate Professorship at CBS, 2008.
- Extensive managerial experience from positions as i<sup>3</sup>net Manager and deputy director 1996-2000
- Member of European Science Foundation's pool of peer reviewers since den 2007.
- Member of IFIP Working Group on the History of Computing since 2003. Member of program committee for conferences in Australia (2010) and Italy (2008).

## List of publications

### Books

- Punched-Card Systems and the Early Information Explosion, 1880-1945*, Baltimore: Johns Hopkins University Press, 2009.
- Historien om FORCE Technology 1940-2006 (The History of FORCE Technology, 1940-2006)*, Copenhagen: Børsens Forlag, 2008
- Hulkort og EDB i Danmark 1911-1970*, Århus: Systime, 1996.

### Articles in international peer reviewed journals

- With Emerson W. Pugh, "Early punched card equipment, 1880-1951", *Proceedings for the IEEE*, 101(2) (2013): 546-552
- "Making Business of a Revolutionary New Technology: The Eckert-Mauchly Company, 1945-1951", *History Research*, 2(8) (2012): 477-489
- "Scale and Scope in American Key-Set Office Machine Dynamics, 1880s-1930s", *IEEE Annals of the History of Computing*, 33.3(2011): 22-31.
- With Emerson W. Pugh, "Punched Card Equipment for Information Processing", IEEE STARS, 2009. [http://www.ieeeahn.org/wiki/index.php/STARS\\_Article:\\_Punched\\_Card\\_Equipment](http://www.ieeeahn.org/wiki/index.php/STARS_Article:_Punched_Card_Equipment)
- "Facilitating and restricting a challenger: Patents and standards in the development of the Bull-Knutsen punched card system, 1919-1938," *Business History*, 51(2009): 28-44
- "Punched cards for professional European offices: revisiting the dynamics of information technology diffusion from the United States to Europe, 1889-1918," *History and Technology*, 24(2008): 307-320
- "The Danish Welding Institute and FORCE Technology, 1940-2005: Technical Standardization and the Shaping of Business," *Entreprises et histoire*, 51(2008), 57-68
- "Monitoring people: Dynamics and Hazards of Record Management in France, 1935-1944", *Technology and Culture*, 45(2004): 80-101
- "IBM e olocausto", *Passato e presente*, 20(2002): 169-175
- "Shaping a Technology: American Punched Card Systems 1880-1914", *IEEE Annals of the History of Computing*, 19(1997): 28-41
- "Europæisk skibsbygning 1880-1950. En analyse af forholdene mellem ændringerne i konkurrenceforhold og den teknologiske udvikling i en række europæiske lande", *Erhvervshistorisk Årbog*, 43(1993): 61-92
- "Punched-Card and Computer Applications in Denmark 1911-1970", *History and Technology*, 11(1993): 77-99
- "From Invention to Production. The Development of Punched Card Machines 1918-1930 by F. R. Bull and K. A. Knutsen", *Annals of the History of Computing*, 13(1991):.261-272

### Articles in peer reviewed anthologies at international publishers

- "Retail Banking and the Dynamics of Information Technology in Business Organizations", 275-285, in *Technological Innovation in Retail Finance, International Historical Perspectives*, edited by Bernado Batiz-Lazo, J. Carles Maixé-Altés, Paul Thomes, London: Routledge, 2011.
- "Facilitating Technology Service: National and European Standards and the Shaping of FORCE Technology, 1940-2005", 127-135, in Harm Schröter (ed.), *The European Firm*, New York: Springer Verlag, 2009
- "Between Parent and 'Child', IBM and its German Subsidiary, 1910-1945", 149-173, in Per H. Hansen and Chris Kobrak (eds.), *Multinationals in Dictatorships*, New York: Berghahn Books, 2004

### Other articles and papers

- "Teknologisk service i en åben verden: Ernst Tidemann," 279-293, in *Trangen til vækst: Danske erhvervsledere 1870-2010*, ed. By Per H. Hansen and Kurt Jacobsen. Odense: Syddansk Universitetsforlag, 2011.
- "Making Business of a Revolutionary New Technology: The Eckert-Mauchly Company, 1945–1951", 207-214, in *History of Nordic Computing 3 Conference*. Ed. By John Impagliazzo, Per Lundin and Benkt Wangler. Heidelberg: Springer, 2011.
- "A broader approach to US anti-trust regulation: The anti-trust case against IBM and Remington Rand in 1932", in Matthias Kipping and Albert Careras (eds.), *Proceedings from the 8<sup>th</sup> Annual Congress of the European Business History Association*, Barcelona: Universitat Pompeu Fabra, 2005
- With Robbie Guerreiro-Wilson, Matthias Kipping, Cecilia Pahlberg, Aristotle Tympas, and Adrienne van den Bogaard, "Information Systems and Technology in Organisations and Society: Review Essay", Eindhoven: Foundation for the History of Technology, 2004
- "IBM Technology and the Third Reich", in *Genocide: Cases, Comparisons and Contemporary Debates*, Steven L. B. Jensen (ed.), København: Danish Center for Holocaust and Genocide Studies, 2003
- "National Capital in the Emergence of a Challenger to IBM in France", i Riitta Hjerpe et al. (eds.), *Proceedings from the 6<sup>th</sup> Annual Congress of the European Business History Association*, University of Helsinki, Department of Social Science History, 2003
- "IBM's Business and Knowledge Basis in Germany 1889-1945", *Proceedings of the EBHA Conference 2001*, Oslo: BI, 2002
- "Hulkort som spejl af de fremvoksende massesamfund", *Humaniora*, 2000:1, 24-27
- "Watson, Thomas J. Sr", *Den store danske encyklopædi*, vol.20, p.304, København: Gyldendal, 2001
- "UNIVAC2, *Den store danske encyklopædi*, vol.19, p.526-527, København: Gyldendal, 2001
- "The Role of Patents and Standards in Shaping the Punched Card Systems of the Bull Company from 1918 to 1952", p.167-180 in François Rodriguez and Jean Vignolle (eds.), *Actes du Cinquième Colloque Histoire de l'Informatique*, Toulouse: Cépaduès-Éditions, 1998
- "Hallo, Hallo. Telefonen kommer til Danmark", *Museumsposten*, 1997:2: 6-7

- "Hollerith, Herman", *Den store danske encyklopædi*, vol.8, p.561, København: Gyldendal, 1997
- "Hulkort", *Den store danske encyklopædi*, vol.9, p.49, København: Gyldendal, 1997
- "Hulkort kommer fra USA", *Museumsposten*, 1996:3: 3
- "Powers mekaniske hulkortsystemer", *Danmarks Tekniske Museum. Årbog 1990*, Helsingør, 1991, p.7-46
- "Hulkort- og edb-teknologiernes udvikling. Samspillet mellem den tekniske og organisatoriske udvikling i Danmark" i *Datateknologi og historie*, Universitet i Tromsø 1990, p.23-37
- "From Invention to Production. The Development of Punched Card Machines 1918-1930 by F. R. Bull and K. A. Knutsen", p.183-199, in Philippe Chartelin and Pierre-Eric Mounier-Kuhn, eds, *deuxième Colloque sur l'Historire de l'Informatique en France*, Paris: CNAM, 1990
- "Hulkort- og edb-teknologierne. Udvikling og anvendelser", *Fabrik og Bolig*, 1989:2: 3-16
- "Teknologioverførsel af hulkort- og edb-teknologi før 1970. Belyst ved skandinaviske eksempler", Stavanger 1988

Reviews in *Business History*, *Centaurus*, *Enterprise & Society*, *Fabrik og Bolig*, *Fortid og Nutid*, *IEEE Annals of the History of Computing*, *Scandinavian Economical History Review*, *Technikgeschichte*, and *Technology and Culture*.