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Curriculum Vitae

Niels Christian Juul

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Degrees

1993	Ph.D. (lic.scient.) in Computer Science from University of Copenhagen, Denmark. Thesis title: *Comprehensive, Concurrent, and Robust Garbage Collection in the Distributed, Object-Based System, Emerald* [55] , supervised by Associate Professor Eric Jul .
1988	Graduated in Computer Science from University of Copenhagen, Denmark with a Master of Science degree (cand.scient.). This includes the Danish equivalent to a Bachelor of Science Major in both Computer Science and Mathematics. Thesis title (translated from Danish): *Multiprogramming kernels — past and present* [61].

Further Post-Graduate Education

2005	Year long national course in leadership for University Department Chairs (Institutlederkursus) arranged in collaboration between the Danish Rectors' Conference (Rektorkollegiet) and University of Southern Denmark (SDU Efteruddannelse).
2004	Mandatory 40 hours course on *Safety in work environment* (Sikkerhedsgruppens arbejdsmiljøuddannelse).
2002	Work apprentice Dialog (Medarbejderudviklingssamtaler) at DiEU (Danish International Continuing Education).
1997 - 1999	Diploma in Management, Basic Leadership Development (GL - Grundlæggende lederudvikling) at DiEU (Danish International Continuing Education).

Full-time Employments

2016 - 2018	Associate Professor (Lektor) in Computer Science at Department of People and Technology, Roskilde University.
2006 - 2015	Associate Professor (Lektor) in Computer Science at Department of Communication, Business and Information Technologies, Roskilde University.
2000 - 2006	Associate Professor (Lektor) in Computer Science at Department VII - Communication, Journalism and Computer Science, Roskilde University.
1995 - 2000	Associate Professor (Lektor) in Computer Science at Department of Informatics (until Spring 1998, Informatics and Management Accounting) at Copenhagen Business School.
1994 - 1995	Temporary Associate Professor (Lektorvikar) at Institute of Computer and Systems Sciences at Copenhagen Business School.
1994 - 1994	Lecturer (Amanuensis) at Department of Computer Science, University of Copenhagen.
1993 - 1994	Post Doc at Department of Computer Science, University of California at Riverside.
1992 - 1993	Temporary Assistant Professor (Adjunktvikar) at Department of Computer Science, University of Copenhagen.
1989 - 1991	Post-graduate (Ph.D.) Scholarship (Kandidatstipendiat) at Department of Computer Science, University of Copenhagen.
1988 - 1989	Research Assistant on the Emerald Project at Department of Computer Science, University of Copenhagen.
1980 - 1981	System programmer in the R&D department of the Danish computer company, RC Computers (Regnecentralen af 1979) A/S, Ballerup.
1979 - 1980	System programmer at the Danish Road Data Laboratory, Herlev.

Scientific Appointments

2019 -	Associate Professor Emeritus in Computer Science at Department of People and Technology, Roskilde University.
2017 -	Vice-chairman of the board of the Danish Computer Science Society (Dansk Selskab for Datalogi).
2014 -	Member of the Business and Labour Market Committee of the Danish Crime Prevention Council.
2012 -	Founding member and member of the board of The Danish Council for Digital Security (Rådet for Digital Sikkerhed).
2012 - 2018	Member of the board of the Technical Society of Information Technology under the Danish Society of Engineers (IDA-IT) (also 2008 - 2010).
2012 - 2016	Appointed by the Ministry of Science, Innovation and Higher Education as Danish delegate to the Management Committee of the EU COST (European Co-operation in the field of Scientific and Technical Research) Action TD1202 (Mapping and the citizen sensor).
2012 - 2016	Appointed by the Ministry of Science, Innovation and Higher Education as Danish substitute to the Management Committee of the EU COST (European Co-operation in the field of Scientific and Technical Research) Action IS1202 (Dynamics of Virtual Work).
2012 - 2016	Appointed by the Ministry of Science, Innovation and Higher Education as Danish substitute to the Management Committee of the EU COST (European Co-operation in the field of Scientific and Technical Research) Action IC1106 (Integrating Biometrics and Forensics for the Digital Age).
2008 - 2013	Founding member of The Danish Council for Greater IT-Security (Rådet for større IT-sikkerhed).
2008 - 2010	Member of RISKnet, the Norwegian and Nordic Network in Information Security and Societal Risk.
2008 - 2010	Associate Editor of the EURASIP Journal of Information Security.
2008 - 2009	Member of the board of The Danish Council for Greater IT-Security (Rådet for større IT-sikkerhed).
2007 - 2010	Chairman of the board of the Danish Computer Science Society (Dansk Selskab for Datalogi).
2007 - 2012	Member of the Danish Council for IT-Security & Privacy (Råd for IT- & Persondatasikkerhed).
2006	Member of the national network supporting the Danish delegates to the EU 7th Framework Programme "Security" Programme Committee.
2006	Member of task force on privacy issues in the IT-society with the *Danish Association of Industrial Corporations (Dansk Industri / ITEK).*
2006 - 2011	Appointed by the Ministry of Foreign Affairs and the Ministry of Science, Technology and Innovation as Danish delegate to the Management Committee of the EU COST (European Co-operation in the field of Scientific and Technical Research) Action 2101 (Biometrics for Identity Documents and Smart cards).
2006 - 2011	Founding member of Center for Wireless Technologies and Business at the Engineering College of Copenhagen.
2006 - 2008	Member of the Executive Committee and co-founder of the European Privacy Institute.
2006 - 2008	Vice-chairman of Danish Biometrics Research Project Consortium.
2006 - 2008	Member of the national advisory board: *Privacy Panel.*
2006 - 2007	Appointed by the Minister of Science, Technology and Innovation for the advisory board: *IT Security Panel.*

2004 - 2005	Member of the national expert committee regarding ENISA (IT- og Telestyrelsens ENISA ekspertgruppe) appointed by the Danish Rectors' Conference (Rektorkollegiet).

Administrative and Management Appointments

2016 - 2021	Member of the local committee for Vanløse (Vanløse Lokaludvalg), a committee under the city council of Copenhagen, Denmark (substitute member 2011-2016).
2007 - 2017	Independent consultant (private consulting company, NCJuul).
2006 - 2011	Secretary and Grant Holder (2008-2011) for the Management Committee of the EU COST Action 2101.
2006 - 2006	Temporary appointment as Acting Head of Department of Communication, Business and Information Technologies at Roskilde University.
2004 - 2019	Appointed as lay judge and juror to the local County Court.
2002 - 2005	Member of the board at Øresund IT Academy.
2002 - 2003	Member of the University Research Coordination Committee (URCC).
2004 - 2006	Member of the Section board for Computer Science.
2003 - 2006	Head of the Department of Communication, Journalism, and Computer Science at Roskilde University.
2002 - 2006	First Vice-Chair of the local Tax Complaints Committee (Skatteankenævnet) in Glostrup.
2002 - 2003	Head of the Computer Science Section at Roskilde University.
1999 - 2006	Representative to the Council of the Federation of Danish Tax Complaints Committees (Kontaktrådet for Foreningen af Danske Skatteankenævn).
1998 - 2010	Member of the corps of external examiners in computer science at Universities in Denmark and the corps of external examiners to civil engineering in Denmark.
1997 - 2006	Head of the local board of political party in Glostrup (Also in 1991-92).
1994 - 2005	Consultant in legislation about Information and Telecommunication Technology to members of the Danish Parliament (Folketinget).
1996 - 2003	Independent consultant (private consulting company, NCJuul).
1998 - 2001	Chair of the local Tax Complaints Committee (Skatteankenævnet) in Glostrup.
2000 - 2000	Member of the Study Board for the Bachelor and Master of Science Curriculum in Business Administration and Computer Science.
2000 - 2000	Spokesperson (tillidsrepræsentant) in labor matters for the faculty at the department.
1996 - 1999	Appointed Juror and lay judge to the High Court of Eastern Denmark.
1995 - 2000	Member of the department board.
1994 - 1999	Coordinating IT purchasing and maintenance within the department.

Part-time Employments

Consulting and part-time teaching at multiple institutions, including the Copenhagen Business School, IT University of Copenhagen, University of Copenhagen, and Delta.

Research Interests

Current research focussing on *IT Security* including identity, biometrics, GDPR, and privacy. Acceptance of technological innovation including the relations between technical, organizational, and human aspects are studied in the context of designing, building and maintaining innovative and secure IT systems.

Research background in *distributed systems*, in particular the underlying technology: distributed operating systems. Focus has been on both design, implementation, performance, and paradigms for process communication, concurrency, distribution, consistency, replication, object-orientation, and fault-tolerance. Especially within management of memory from memory allocation to garbage collection and distributed shared memory. Related areas of research include: computer architectures, networks, Internet, operating systems, mobile computing, security, and programming languages. Further research in the *application* of above technology to electronic commerce and eGovernment, especially within the area of standards, security, architecture, mobility and back-end integration. Also *Policy issues* and IT-politics are studied including the regulation and dissemination of new technology, e.g., the Internet, EDI, WAP, PET, Biometric-ID, and GDPR.

Research Experience

The research is founded in the tradition of natural science research; but it has also been challenged by social science research. The dissemination of EDI in the Danish public and private sectors based on quantitative and qualitative inquiries. Previous research projects: Emerald and Mirage. The research method is partly experimental (based on software constructs), and partly explorative (based on the study of information technology implementations).

Teaching Experience

Teaching computer science at the undergraduate and graduate level including Master and Ph.D. Thesis supervision at Roskilde University, University of Copenhagen, and Copenhagen Business School. Managing courses, developing curricula, and participating in Study Boards. Also teaching "Open University"-courses and participating in Executive MBA teaching. External teaching at the IT-University in Copenhagen, Copenhagen Business School, University of Copenhagen, Copenhagen Business College (Niels Brock), and DELTA.

Management Skills and Experience

Holding a diploma in Basic Management (Basic Leadership, Managing Changes, Managing People, and Managing Decisions) from the Danish International Continuing Education (DiEU) and a course in University Department Chair Leadership from 2005. Until late 2006 Acting Head of the enlarged Department CBIT at Roskilde University and previously for more than three years Head of Department VII at Roskilde University with responsibility of 100+ employees. Before that Section Head of the Computer Science Section. Serving as a member (or chair) of several boards and committees for both academic and public organizations with duties on the strategic and operational level. Previously also coordinating computing facilities at department level, including the management of support staff.

Experience in strategic as well as practical day-to-day management, staff recruitment and development, planning and budgetary decisions. Facilitating political decision making, policy making as well as it's implementation.

Technical Skills

Forty years practical experience in building and using computer systems and networks. Knowledge and extensively use of many systems (programming languages, utilities, operating systems, computers and networks) over the years.

Experience in coordination, installation, and user support in a mixed environment of PC's, Mac, and workstations using a TCP/IP network, Apple-talk, various Windows-based networks, with operating systems of the Windows, MacOS, and UNIX families and various office packages and network software. Experimental research has been carried out on local area networks of computer systems with various flavors of the UNIX operating system and the

programming language C on PC's, PS/2's, VAX'es and SPARCstations. Experience includes use of various shells, and most utilities of the 4.3BSD and system V versions, including system management of Linux-based systems.

Also familiar with the internals of a UNIX kernel and management of UNIX systems. Working knowledge in the use of various GNU software, text processing with LaTeX and BibTeX, the X11 window system, and previously the graphical package GINO-F. Working knowledge in programming languages like C, Pascal, Fortran, Java, JavaScript, C++, Algol, Concurrent Pascal, Real-time Pascal, Pascal-80, Simula, Basic, Visual Basic, Joyce, Emerald, PostScript, PHP, and various assembler languages, and operating systems like CP/M, DOS, OS1100, BOSS, s, and the Macintosh System, using computers and workstations from IBM, SUN, DEC, HP, Borroughs, and RC Computers, and various PC-compatibles as well as the Macintosh from Apple.

Natural Language Skills

Natural languages preferred are Danish and English, both mastered in oral and written form. Further language abilities are German and the other Scandinavian languages, with the ability to communicate the spoken word and read the written. Knowledge of the Latin, French, Spanish, and Russian languages, but to a much lesser extend.

Academic Networks

Current or former member of multiple Computer Professional Societies international and domestic, including:

Dansk Selskab for Datalogi, the Danish Computer Science Society (chairman of the board 2007-2010)

IDA IT, the Technical Society of Information Technology under the Danish Society of Engineers (IDA IT, member of the board 2008-2010, 2012-2018).

IDA Embedded, the Technical Society of Embedded Computer Technology under the Danish Society of Engineers.

Selskabet for Risikovurdering, RISK, the Technical Society of RISK Assessment under the Danish Society of Engineers.

Teleteknisk Selskab, TTS, the Teletechnical Society under the Danish Society of Engineers.

Dansk IT, the Danish IT Society affiliated with IFIP (The International Federation for Information Processing)

RISKnet, the Norwegian and Nordic Network in Information Security and Societal Risk

*IEEE Computer Society***,** including its Technical Committees on Operating Systems (TCOS), Security and Privacy (TCSP) Wearable Information Systems (ISWC), and Internet (TCI) (member until 2004)

Association for Computing Machinery (ACM) with its Special Interest Groups on Operating Systems (SIGOPS), Security, Audit and Control (SIGSAC), Mobile Computing (SIGMOBILE), Electronic Commerce (SIGECOM), and Programming Languages (SIGPLAN)

USENIX Association (Campus representative since 2003)

Computer Professionals for Social Responsibility (CPSR) (former member)

Association of Danish Information Systems Professionals in Silicon Valley (DISP) (former member)

Besides participation in the work of the above mentioned associations and the relations to colleagues domestic and abroad, engaged in the construction of various human networks, nationally and internationally.

In 1989/90 a network of Ph.D. Students in Denmark working in the area of Distributed Computing was established supported by the Danish Research Academy (*Distributed Course in Distributed Computing*). In spring 1990, I initiated the first *Workshop on Garbage Collection in Object-Oriented Systems* and directed the preparation and implementation [58] in conjunction with OOPSLA/ECOOP'90 in Ottawa, Canada. Furthermore, I have participated at the establishing of a network of Ph.D. Students in Natural Science in Europe (mainly the EU) at a French initiative and in the *EURODOCT'91* conference [57] in Paris, April 1991.

Invited Talks and Public Relations

Research results have been presented at a range of institutions and conferences in connection with visits in Europe and North America as well as to the Danish industry.

Presenting the views of an expert in IT related matters in Danish press, e.g., about the Internet, IT security, privacy and e-commerce on Danish national radio.

Editorial, Referee and Evaluation Appointments

International evaluator of project applications for Research Councils in Australia (Australian Research Council, 2004-2006, 2012-2014), United States of America (National Science Foundation, 2006), and the European Commission (EU ICT PSP, 2007). Member of Ph.D. evaluation committees at Scandinavian universities. Evaluator of scientific merits of applicants for positions at Copenhagen Business School, Technical University of Denmark, Aalborg University and Roskilde University since 1999.

Workshop chair and program committee member for *The First COST 2101 Workshop on Biometrics and Identity Management (BIOID 2008)*. Member of the program committee for the 16th, 17th, 18th, 19th and 21st *Bled Conference on Electronic Commerce* for 2003, 2004, 2005, 2006 and 2008 and heading the program committee for the *Graduate Students Bazaar* at the 13th and 14th *Bled Conference on Electronic Commerce*, 2000 and 2001, and since member of the same committee for 2002 - 2005. Member of the program committee for the *IADIS conference on E-society*, 2003 and the *IADIS conference on E-commerce*, 2004 . Heading the program committee for the *Workshop on Garbage Collection in Object-Oriented Systems*, 1990 and co-chairing the *III Workshop on Mobility and Replication* [46] at ECOOP, 1998.

Referee for the program committees of the conferences: *ACM Conference on Object-Oriented Programming: Systems, Languages, and Applications* (OOPSLA), *European Conference on Object-Oriented Programming* (ECOOP), *European Conference on Information Systems* (ECIS), *International Conference on Information Systems* (ICIS), *Bled Conference on Electronic Commerce*, *Hawaii International Conference on System Sciences* (HICSS), *USENIX Symposium on Experiences with Distributed & Multiprocessor Systems* (SEDMS), *Annual Conference of the European Association for Computer Science Logic* (CSL'94), and *The Annual ACM Symposium on Principles of Programming Languages* (POPL).

Associate Editor of the *EURASIP Journal of Information Security*, and refereeing for the journals *Software Practice & Experience*, *Information Systems Journal*, *International Journal of Electronic Commerce*, and for *ACM Computing Reviews*[63].

Family and Social Relations

Married to Anne Nordly since 1982, father to two grown-up daughters, and grandfather to a grandson and a granddaughter. Living in Vanløse, a part of the city of Copenhagen.

References

Available on request.

Selected Publications

Authoring articles on Internet related issues for the Danish National Encyclopedia.

[1] Peter Mooney, Ana-Maria Olteanu-Raimond, Niels Christian Juul, Guillaume Touya, Seraphim Alvanides, and Norman Kerle. Considerations of privacy, ethics and legal issues in volunteered geographic information. In Giles Foody, Linda See, Steffen Fritz, Peter Mooney, Ana-Maria Olteanu-Raimond, Cidalia Coste Fonte, and Vyron Antoniou, editors, *Mapping and the Citizen Sensor*, pages 119–135. Ubiquity Press, 9 2017.

[2] Troels Andreasen, Niels Christian Juul, and Mads Rosendahl. Designing software-based interactive installations. In Jesper Simonsen, editor, *Situated Design Methods*, chapter 14, pages 259–278. MIT Press, 2014.

[3] Niels Christian Juul. Recommendations on the use of biometric technology. In Patrizio Campisi, editor, *Security and Privacy in Biometrics*, chapter 16, pages 413–431. Springer, June 2013. Revised version of [5].

[4] Claus Vielhauer, Jana Dittmann, Andrzej Drygajlo, Niels Christian Juul, and Michael Fairhurst, editors. *Biometrics and ID Management*, volume 6583 of *Lecture Notes in Computer Science*, Brandenburg, Germany, 2011. EU COST Action 2101 BIDS, Springer. Proceedings of the Third European Workshop on Biometrics and Identity Management (BIOID 2011).

[5] Niels Christian Juul. Recommendation on the use of biometric technology. In *Workshop on Privacy and Security for Biometrics*, Las Palmas, Grand Canarias, Spain, May 2010. EU COST Action 2101 BIDS. unpublished workshop contribution, later published in [3].

[6] Arbejdsgruppe vedr. biometri. Biometri – brug af biometriske teknologier i det danske samfund. Teknologirådets rapporter 2010/2, Teknologirådet, Copenhagen, Denmark, March 2010.

[7] Ben Schouten, Niels Christian Juul, Andrzej Drygajlo, and Massimo Tistarelli, editors. *Biometrics and Identity Management*, volume 5372 of *Lecture Notes in Computer Science*, Roskilde, Denmark, 2008. EU COST Action 2101 BIDS, Springer. Proceedings of the First European Workshop on Biometrics and Identity Management (BIOID 2008). Revised and extended version of [8].

[8] Ben Schouten and Niels Christian Juul, editors. *Proceedings of the First European Workshop on Biometrics and Identity Management (BIOID 2008)*, number 121 in Computer Science Research Reports, Roskilde University, Denmark, April 2008.

[9] Kim Viborg Andersen, Helle Zinner Henriksen, and Niels Christian Juul. Overvæltning af kvalitetssikring til de eksterne brugere: Elektroniske indkøb. In *Den brugerdrevne forvaltning – muligheder og grænser for digitalisering*, chapter 5, pages 69–84. Jurist og Økonomforbundets Forlag, Copenhagen, March 2007. (In Danish).

[10] Helle Zinner Henriksen, Kim Viborg Andersen, and Niels Christian Juul. E-indkøb i de danske kommuner. In *Effektivisering*, Børsens håndbogsserie, chapter 10-1, pages 1–32. Børsens Forlag, Copenhagen, April 2006. (In Danish, translated title: *E-procurement in local Danish government* in *Streamlining*). Republication of [11].

[11] Helle Zinner Henriksen, Kim Viborg Andersen, and Niels Christian Juul. E-indkøb i de danske kommuner. In Kim Viborg Andersen, editor, *Internethåndbogen*, Børsens håndbogsserie, chapter 5-3, pages 1–20. Børsens Forlag, Copenhagen, March 2005. (In Danish, translated title: *E-procurement in local Danish government* in *The Internet Handbook*). Completely revised version of [17].

[12] Helle Zinner Henriksen, Kim Viborg Andersen, and Niels Christian Juul. E-indkøb i de danske kommuner 2004. Working Paper 2005-03, Department of Informatics, Copenhagen Business School, February 2005. ISSN: 1399-1779. (In Danish, translated title: *E-procurement in local Danish government.*

[13] Morten Hetzum, Niels Christian Juul, Niels Jørgensen, and Mie Nørgaard. Usable security and e-banking: Ease of use vis-a-vis security. In *OZCHI 2004 Conference Proceedings. OZCHI: the annual conference for the Computer-Human Interaction Special Interest Group (CHISIG) of the Human Factors and Ergonomics Society of Australia*, University of Wollongong, New South Wales, Australia, November 2004.

[14] Kim Viborg Andersen and Niels Christian Juul. Digital wheel barrows in local government. In Yao-Hua Tan and Douglas R. Vogel, editors, *Proceedings of the 17th Bled eCommerce Conference - eGlobal*, volume Research Volume, Bled, Slovenia, June 2004. Published on CD-ROM: Content/47Andersen.pdf.

[15] Kim Viborg Andersen and Niels Christian Juul. Still just shifting bytes through the government wires? In Steve Elliot, Kim Viborg Andersen, Eileen Trauth, and Siegfried Reich, editors, *Multi-disciplinary Solutions to Industry & Government's E-business Challenges. Proceedings of the IFIP WG 8.4 Working Conference on E-business*, Salzburg Reserch, Salzburg, Austria, June 2004. Universitatsverlag Rudolf Trauner. Published in Schriftenreihe Informatik, vol. 11.

[16] Niels Christian Juul, Kim Viborg Andersen, and Sara Korzen-Bohr. Challenging the paradigms on up-stream B2B E-Commerce? In Jr. Ralph H. Sprague, editor, *Proceedings of the 37th Hawai'i International Conference On System Sciences (HICCS)*, Hilton Waikoloa Village, Island of Hawaii (Big Island), January 2004. IEEE. Revised version of [23] presented at the Mini-track on Business-to-Business Electronic Commerce at the Hawaii International Conference on System Sciences (HICSS). Published on CD-ROM.

[17] Kim Viborg Andersen, Niels Christian Juul, and Sara Korzen-Bohr. E-indkøb i kommunerne. In Kim Viborg Andersen, editor, *Internethåndbogen*, Børsens håndbogsserie, chapter 4-8, pages 1–24. Børsens Forlag, Copenhagen, July 2003. (In Danish, translated title: *E-procurement in local Danish government* in *The Internet Handbook*).

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[20] Kim Viborg Andersen and Niels Christian Juul. User democracy and digital channels. In Antonio Palma dos Reis and Pedro Isaias, editors, *Proceedings of the IADIS International Conference: e-Society 2003*, volume 1, pages 544–550, Lisboa, Portugal, June 2003. Also published on CD-ROM.

[21] Niels Christian Juul and Niels Jørgensen. The security hole in WAP - an analysis of the network and business rationales underlying a failure. *International Journal of Electronic Commerce*, 7(4):73–92, Summer 2003. Revised version of [27].

[22] Niels Christian Juul, Kim Viborg Andersen, and Sara Korzen-Bohr. Fortsat fremgang i den elektroniske udveksling af data mellem virksomheder. *På Stregen*, (1):8–10, February 2003. (In Danish, translated title: *B2B EDI Continues to Growth*).

[23] Kim Viborg Andersen, Niels Christian Juul, Sara Korzen-Bohr, and Helle Zinner Henriksen. The end of power and persuasion? Up-stream adoption of B2B e-commerce in the Danish grocery value chain. Working Paper 2002-26, Department of Informatics, Copenhagen Business School, December 2002. ISSN: 1399-1779.

[24] Niels Christian Juul, Niels Jørgensen, and Kim Viborg Andersen. Sikkerhed på det mobile net. In Kim Viborg Andersen, editor, *Internethåndbogen*, Børsens håndbogsserie, chapter 7-5, pages 1–13. Børsens Forlag, Copenhagen, November 2002. (In Danish, translated title: *Security in Mobile Networks* in *The Internet Handbook*).

[25] Kim Viborg Andersen and Niels Christian Juul. E-handelsstrategier i den offentlige sektor. In Kim Viborg Andersen, editor, *Digital genopbygning af den offentlige sektor - borgerne og brugerne i centrum*, chapter 7, pages 115–128. Danmarks Forvaltningshøjskoles Forlag, Copenhagen, September 2002. (In Danish, translated title: *E-commerce strategies in the public sector* in *Digital Revalitalization of the public sector - putting citizens first*).

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[33] Niels Christian Juul and Niels Jørgensen. WAP may stumble over the gateway (security in WAP-based mobile commerce). In Veljko Milutinovic, editor, *Proceedings of the SSGRR 2001, Internation Conference on Advances in Infrastructure for Electronic Business, Science, and Education on the Internet*, page 8, L'Aquila, Italy, August 2001. Scuola Superiore G. Reiss Romoli (SSGRR). CD-ROM.

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