

CV

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Research interest: Main research interest is within eHealth interoperability across multimodalities and multiusers.

Secondary interest is within design and evaluation of solutions for multimodalities, and the use and management of big health data in these multimodalities. My research interest can be divided into five interrelated parts.

A:eHealth interoperability through a focus on infrastructure and architecture

B:Design of both backend and frontend i.e. databases and Clinical and Health Information Systems

C:Evaluation of design, systems and use of systems in a multiuser perspective

D:Modelling, analysing and developing Clinical and Health Information Systems

E:Management of big data – making use of medical and health informatics.

Teaching projects:

Methods Rethinking the organization of the 5th semester Bachelor of Biomedical Engineering. Due to new curriculum, the students no longer have a continual stay at the hospitals, but the students still need to have close collaboration with central stakeholders (medical staff).

Methods Introduction of new teaching methods being casework used for technology learning both on first semester and on 4th semester Techno Anthropology.

Methods Development of online material and teaching for partly physical and partly virtual course module at open education for Masters in health informatics.

Quality insurance Development of content to our new quality insurance system (written description of semesters' content, progress and coherence) used under the study board of health, sports and technology.

Quality insurance Development of group based examination at the study programmes of Medicine. The purpose to present different methods and tools to systematically conduct group based examination in the study programmes of Medicine and exchange experiences with other supervisors/examiners. Group based examination is an essential part of Aalborg University's PBL model.

Processes Development of teaching processes for group formation process at Techno Anthropology 4th semester to ensure students use of their competences obtained on earlier semesters together.

Course development Course development of new elective modules 'Methods and Models in clinical information systems', Master of Biomedical Engineering and Informatics, and a new elective module 'Big Data' at Techno Anthropology. Course development of a mandatory course 'Scientific methods and communication', Master of Health Science and Technology, and Semester coordinating the first Techno Anthropology 4th semester Campus Aalborg.

Curricula Curricula development for new elective modules, Master of Biomedical Engineering and Informatics, 'Methods and models in clinical information systems' and 'The Semantics of Clinical Information Systems'

Curricula Redesigning the curriculum for open education for Master of Information Technology in Health Informatics.

Redesigning the curriculum for Bachelor of Science in Biomedical Engineering and Informatics.

Redesigning the curriculum for Master of Science in Biomedical Engineering and Informatics.

Editorial Boards:

2020:Proceedings of MIE2020

2014:e-Health - for Continuity of Care : Proceedings of MIE2014. Lovis, Christian (Editor); Séroussi, Brigitte (Editor); Hasman, Arie (Editor); Pape-Haugaard, Louise (Editor); Saka, Osman (Editor); Andersen, Stig Kjær (Editor).

IOS Press, 2014. (Studies in Health Technology and Informatics; No. 205).

Referee for Journals and conferences:

ReviewerWorld Congress on Health and Medical Informatics; Medical Informatics Europe; Scandinavian Conference on Health Informatics; International Congress in Nursing Informatics; Journal of Medical Internet Research;

ChairmanWorld Congress on Health and Medical Informatics; Medical Informatics Europe; Scandinavian Conference on Health Informatics; Danish e-health conference (e-sundhedsobservatoriet)

Managerial / Academic / Administrative experience:

Oct 2018-present: Member of the Board for European Federation of Medical Informatics, Role: Institutional Membership Officer, NGO

June 2018- present: Member of the Board of Danish Association for Digital Health, Role: Academic Secretary

July 2019-July 2020: Member of Scientific Programme Committee for the Congress Medical Informatics Europe

Jan 2019-present: Member of the scientific programme EU-China Health Summit for collaboration

Feb 2016-present: Member of the revision group for developing new curriculum for both the Bachelor and Master of Biomedical Engineering and Informatics programme

Feb 2016-present: Member of the Executive Committee for the Danish Centre for Health Informatics, Aalborg University

Feb 2016-present: Member of the Study Board of Health, Science and Sports at the Faculty of Medicine, Aalborg University

June 2010-Sept 2010: Member of the Technical / Local organizing Committee for SHI2010 Proceedings : 8th Scandinavian Conference on Health Informatics, 23-24 August 2010, Copenhagen, Denmark

Selected (recent) Oral Presentations:

Oct 2018: Speaking/teacher at the conference for GPs in DK held by PLO about the digital possibilities to reuse patient centric data during patient-doctor consulting

May 2017: Workshop on group based examination at the study programmes of Medicine

April 2017: Presenter of the paper "Feasibility of representing a Danish microbiology model using " at the conference: MIE2017 (Informatics for Health: Connected Citizen-Led Wellness and Population Health)

Oct 2016: Speaker at a conference day for Regional Nurses in DK held by DSR on Telemedicine and Welfare

Priser

Årets underviser ved Studienævn for Sundhed, Teknologi og Idræt

Pape-Haugaard, Louise (Modtager), 2018

Årets underviser ved Studienævn for Teknoantropologi

Pape-Haugaard, Louise (Modtager), 2014

Årets Underviser ved Studienævn for Teknoantropologi, Bæredygtig Design og Integrerede Fødevarerstudier

Pape-Haugaard, Louise (Modtager), 1 jan. 2017

Projekter

CAPABLE: empower citizens to active use of their health information

Moen, A. & Pape-Haugaard, L.

01/04/2019 → 30/04/2022

Evaluation of the data validity in a new Danish national database for early detection of infants at risk. Pre-study.

Høstgaard, A. M. B. & Pape-Haugaard, L.

01/04/2011 → 01/07/2013

Kvalitetssikring af data i Børnedatabasen

Høstgaard, A. M. B. & Pape-Haugaard, L.

01/08/2011 → 31/01/2014

Publikationer

Using case-based reasoning in a learning system: a prototype of a pedagogical nurse tool for evidence-based diabetic foot ulcer care

Bender, C., Cichosz, S. L., Malovini, A., Bellazzi, R., Pape-Haugaard, L. & Hejlesen, O., 15 feb. 2021, (E-pub ahead of print) I: Journal of Diabetes Science and Technology.

New Scopes for Practice - Interdisciplinary Webinars for Emergency Medicine and Biomedical Informatics - Health Informatics

Saranto, K., Chronaki, C., Garcia-Castrillo Riesgo, L., Pape-Haugaard, L. B. & Mantas, J., 23 nov. 2020, *Integrated Citizen Centered Digital Health and Social Care: Citizens as Data Producers and Service co-Creators - Proceedings of the EFMI 2020 Special Topic Conference*. IOS Press, Bind 275. s. 187-191 5 s. (Studies in Health Technology and Informatics , Bind 275).

Assessment of simple bedside wound characteristics for a prediction model for diabetic foot ulcer outcomes

Bender, C., Cichosz, S. L., Pape-Haugaard, L., Jensen, M. H., Bermark, S., Laursen, A. C. & Hejlesen, O., 22 jul. 2020, (E-pub ahead of print) I: *Journal of Diabetes Science and Technology*.

Digital personalized health and medicine: Preface

Scott, P. & Pape-Haugaard, L. B., 16 jun. 2020, *Digital Personalized Health and Medicine*. IOS Press, s. v-vi (Studies in Health Technology and Informatics , Bind 270).

Digital personalized health and medicine: Covid-19

Pape-Haugaard, L. B., Stoicu-Tivadar, L., Cort Madsen, I., Winter, A. & Lovis, C., 16 jun. 2020, *Digital Personalized Health and Medicine*. IOS Press, s. vii (Studies in Health Technology and Informatics , Bind 270).

Methods and measures used to evaluate patient-operated mobile health interventions: Scoping literature review

Bradway, M., Gabarron, E., Johansen, M., Zanaboni, P., Jardim, P., Joakimsen, R., Pape-Haugaard, L. & Årsand, E., apr. 2020, I: *J M I R mHealth and uHealth*. 8, 4, e16814.

An International Minimal Patient Care Report Exemplified in FHIR to Facilitate Standardisation and Interoperability of Emergency Medical Services Data

Blendal, R. G. & Pape-Haugaard, L., 28 aug. 2018, *Proceedings from The 16th Scandinavian Conference on Health Informatics 2018 Aalborg, Denmark August 28–29, 2018*. Bygholm, A., Pape-Haugaard, L., Niss, K., Hejlesen, O. & Zhou, C. (red.). Linköping University Electronic Press, s. 85-91 6 s. (Linköping Electronic Conference Proceedings, Bind 151).

Designing a Dashboard to Visualize Patient Information

Waidtløv Gustafson, J., Jones, C. H. & Pape-Haugaard, L., 28 aug. 2018, *Proceedings from The 16th Scandinavian Conference on Health Informatics 2018 Aalborg, Denmark August 28–29, 2018*. Bygholm, A., Pape-Haugaard, L., Niss, K., Hejlesen, O. & Zhou, C. (red.). Linköping University Electronic Press, s. 23-29 6 s. (Linköping Electronic Conference Proceedings, Bind 151).

Proceedings from The 16th Scandinavian Conference on Health Informatics 2018, Aalborg, Denmark August 28–29, 2018

Bygholm, A., Pape-Haugaard, L., Niss, K. U., Hejlesen, O. & Zhou, C., 24 aug. 2018, Linköping, Sweden: Linköping University Electronic Press. 108 s. (Linköping Electronic Conference Proceedings, Bind 151).

A future-proof architecture for telemedicine using loose-coupled modules and HL7 FHIR

Gøeg, K. R., Rasmussen, R. K., Jensen, L., Wollesen, C. M., Larsen, S. & Pape-Haugaard, L., 2018, I: *Computer Methods and Programs in Biomedicine*. 160, s. 95-101 7 s.

A method for developing standard patient education program

Lura, C. B., Hauch, S. M. P., Gøeg, K. R. & Pape-Haugaard, L., 2018, *Building Continents of Knowledge in Oceans of Data: The Future of Co-Created eHealth - Proceedings of MIE 2018*. Klein, G. O., Karlsson, D., Moen, A. & Ugon, A. (red.). IOS Press, s. 346-350 5 s. (Studies in Health Technology and Informatics; Nr. 247).

Collect once - use many times: The research potential of low back pain patients' municipal electronic healthcare records

Toftdahl, A. K. S., Pape-Haugaard, L., Palsson, T. S. & Villumsen, M., 2018, *Building Continents of Knowledge in Oceans of Data: The Future of Co-Created eHealth - Proceedings of MIE 2018*. Klein, G. O., Karlsson, D., Moen, A. & Ugon, A. (red.). IOS Press, s. 211-215 5 s. (Studies in Health Technology and Informatics; Nr. 247).

Models used in clinical decision support systems supporting healthcare professionals treating chronic wounds: systematic literature review

Schaarup, C., Pape-Haugaard, L. & Hejlesen, O., 2018, I: *JMIR Diabetes*. 3, 2, 11 s., e11.

Complex medication reconciliation in the Danish medication system: Shared Medication Record for patients in transition of care across sectors

Børgaard, H. T., Jensen, L. W. H., Jepsen, N. K., Clausen, M., Madsen, N. A., Marquart, H. M. & Pape-Haugaard, L., 2017, *Proceedings from the 15th Scandinavian Conference on Health Informatics, SHI, 29–30 August 2017, Kristiansand, Norway*. Linköping University Electronic Press, s. 21-27 4. (Linköping Electronic Conference Proceedings; Nr. 145).

Feasibility of representing a Danish Microbiology Model using FHIR

Andersen, M. V., Kristensen, I. H., Larsen, M. M., Pedersen, C. H., Gøeg, K. R. & Pape-Haugaard, L., 2017, *Informatics for Health: Connected Citizen-Led Wellness and Population Health*. Randell, R., Cornett, R., McCowan, C., Peek, N. & Scott, P. J. (red.). IOS Press, s. 13-17 (Studies in Health Technology and Informatics; Nr. 235).

Probing community nurses' professional basis: a situational case study in diabetic foot ulcer treatment

Schaarup, C., Pape-Haugaard, L., Jensen, M. H., Laursen, A. C., Bermark, S. & Hejlesen, O. K., 2017, I: *British Journal of Community Nursing*. 22, Suppl. 3, s. S46-S52

Social network analysis and tele homecare

Niss, K. U., Hejlesen, O. & Pape-Haugaard, L., 2017, *Proceedings from the 15th Scandinavian Conference on Health Informatics, SHI, 29-30 August 2017, Kristiansand, Norway*. Linköping University Electronic Press, s. 72-77 (Linköping Electronic Conference Proceedings; Nr. 145).

Comparison between Mother, ActiGraph wGT3X-BT, and a hand tally for measuring steps at various walking speeds under controlled conditions

Riel, H., Rathleff, C. R., Kalstrup, P. M., Madsen, N. K., Pedersen, E. S., Pape-Haugaard, L. & Villumsen, M., 2016, I: *PeerJ*. 4, 14 s., e2799.

Design of a tablet computer app for facilitation of a molecular blood culture test in clinical microbiology and preliminary usability evaluation

Samson, L. L., Pape-Haugaard, L., Meltzer, M. C., Fuchs, M., Schönheyder, H. C. & Hejlesen, O., 2016, I: *JMIR mHealth and uHealth*. 4, 1, 11 s., e20.

Big Data udnyttes for lidt i sundhedsforskningen

Pape-Haugaard, L. & Nielsen, P. B., 2015, I: *Medicoteknik*. 2, 4, s. 8-13

Participatory heuristic evaluation of the first iteration of the eWALL interface application

Schaarup, C., Pape-Haugaard, L., Hangaard, S. V., Mihovska, A. & Hejlesen, O., 2015, *Wireless VITAE, 5th International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace & Electronic Systems, 13-16 December 2015, Hyderabad, India*. IEEE, 5 s.

Using participatory heuristic evaluation as a collaborative backbone in large-scale projects: preliminary experience from the eWALL EU-project

Schaarup, C., Pape-Haugaard, L., Hangaard, S. V., Mihovska, A., Hartvigsen, G. & Hejlesen, O., 2015, *Proceedings of the 13th Scandinavian Conference on Health Informatics, SHI, 15-17 June 2015, Tromsø, Norway*. Granja, C. & Budrionis, A. (red.). Linköping University Electronic Press, s. 19-24 (Linköping Electronic Conference Proceedings; Nr. 115).

e-Health - for Continuity of Care: Proceedings of MIE2014

Lovis, C. (red.), Séroussi, B. (red.), Hasman, A. (red.), Pape-Haugaard, L. (red.), Saka, O. (red.) & Andersen, S. K. (red.), 2014, IOS Press. (Studies in Health Technology and Informatics; Nr. 205).

MIE2014 preface

Lovis, C., Séroussi, B., Hasman, A., Pape-Haugaard, L., Saka, O. & Andersen, S. K., 2014, *e-Health - for Continuity of Care: Proceedings of MIE2014, 31 August-3 September 2014, Istanbul, Turkey*. Lovis, C., Séroussi, B., Hasman, A., Pape-Haugaard, L., Saka, O. & Andersen, S. K. (red.). IOS Press, s. v-vi (Studies in Health Technology and Informatics; Nr. 205).

Participatory heuristic evaluation of a tablet computer system for clinical microbiology

Samson, L. L., Pape-Haugaard, L., Søgaard, M., Schönheyder, H. C. & Hejlesen, O., 2014, *e-Health - for Continuity of Care: Proceedings of MIE2014, 31 August-3 September 2014, Istanbul, Turkey*. Lovis, C., Séroussi, B., Hasman, A., Pape-Haugaard, L., Saka, O. & Andersen, S. K. (red.). IOS Press, s. 910-914 (Studies in Health Technology and Informatics; Nr. 205).

Exploring barriers for health visitors' adaption of the Danish children's database

Pape-Haugaard, L., Haugaard, K., Carøe, P. & Høstgaard, A. M., 1 dec. 2013, *Studies in Health Technology and Informatics*. 1-2 udg. IOS Press, Bind 192. 1 s. (Studies in Health Technology and Informatics).

Integration of health records by using relaxed ACID properties between hospitals, physicians and mobile units like ambulances and doctors

Frank, L. & Pape-Haugaard, L., 31 jan. 2013, *Mobile and Handheld Computing Solutions for Organizations and End-Users*. IGI global, s. 275-287 13 s.

Eliciting requirements for a tablet-based data entry and reporting system for use in clinical microbiology laboratories to facilitate blood culture analysis: a case study

Samson, L. L., Pape-Haugaard, L. & Hejlesen, O., 2013, *Scandinavian Conference on Health Informatics 2013, 20 August 2013, Copenhagen, Denmark*. Bellika, G., Bygholm, A., Dencker, M., Fossum, M., Galster, G., Hartvigsen, G., Hejlesen, O., Karlsson, D., Koch, S. & Moe, C-E. (red.). Linköping University Electronic Press, s. 79-82 (Linköping Electronic Conference Proceedings; Nr. 91).

Exploring barriers for health visitors' adaption of the Danish Children's Database through an empirical study

Pape-Haugaard, L., Haugaard, K., Carøe, P. & Høstgaard, A. M. B., 2013, *Scandinavian Conference on Health Informatics 2013, 20 August 2013, Copenhagen, Denmark*. Bellika, G., Bygholm, A., Dencker, M., Fossum, M., Galster, G., Hartvigsen, G., Hejlesen, O., Karlsson, D., Koch, S. & Moe, C-E. (red.). Linköping University Electronic Press, s. 73-77 (Linköping Electronic Conference Proceedings; Nr. 91).

Exploring end users' system requirements for a handheld computer supporting both sepsis test workflow and current IT solutions

Samson, L. L., Pape-Haugaard, L., Søgaard, M., Schønheyder, H. C. & Hejlesen, O., 2013, *MEDINFO 2013: Proceedings of the 14th World Congress on Medical and Health Informatics*. Lehmann, C. U., Ammenwerth, E. & Nøhr, C. (red.). IOS Press, s. 524-528 (Studies in Health Technology and Informatics; Nr. 192).

Preliminary trial for development of an online information service for day surgery patients

Wacker, K. K., Olsen, L. & Pape-Haugaard, L., 2012, I: *European Journal of Cardiovascular Nursing*. 11, Suppl. 1, s. S43-S44, No. P118

Quality assurance and effectiveness of the medication process through tablet computers?

Buus, A., Nyvang, L., Heiden, S. & Pape-Haugaard, L., 2012, *Quality of Life through Quality of Information: Proceedings of MIE2012, 26-29 August 2012, Pisa, Italy*. Mantas, J., Andersen, S. K., Mazzoleni, M. C., Blobel, B., Quaglini, S. & Moen, A. (red.). IOS Press, s. 348-352 (Studies in Health Technology and Informatics; Nr. 180).

Reusable data in public health databases: problems encountered in Danish children's database

Høstgaard, A. M. B. & Pape-Haugaard, L., 2012, *Quality of Life through Quality of Information: Proceedings of MIE2012, 26-29 August 2012, Pisa, Italy*. Mantas, J., Andersen, S. K., Mazzoleni, M. C., Blobel, B., Quaglini, S. & Moen, A. (red.). IOS Press, s. 609-613 (Studies in Health Technology and Informatics; Nr. 180).

Transversal interoperability for interdisciplinarity in e-Health

Pape-Haugaard, L., 2012, River Publishers.

Higher level of interoperability through an architectural paradigm shift: a study of Shared Medication Record

Pape-Haugaard, L., 2011, *Proceedings of the 4th International Conference on Biomedical Engineering and Informatics, BMEI 2011, Volume 4, 15-17 October 2011, Shanghai, China*. IEEE Press, Bind 4. s. 2109-2113, Article No. 6098680

How to ensure sustainable interoperability in heterogeneous distributed systems through architectural approach

Pape-Haugaard, L. B. & Frank, L., 2011, I: *Studies in Health Technology and Informatics*. 165, s. 94-98

Integration of health records by using relaxed ACID properties between hospitals, physicians and mobile units like ambulances and doctors

Frank, L. & Pape-Haugaard, L., 2011, I: *International Journal of Handheld Computing Research*. 2, 4, s. 29-41

Interoperability through an architectural paradigm shift using shared medication record as a case

Pape-Haugaard, L., 2011. 2 s.

Kliniske informationssystemer

Gøeg, K. R., Pape-Haugaard, L. B. & Elberg, P. B., 2011, *Sundhedsinformatik i klinisk praksis*. Erdmann, L. W. (red.). Gad , s. 21-39

Scandinavian openEHR and ISO13606 workshop

Anani, N., Bellika, J. G., Bernstein, K., Chen, R., Karlsson, D., Pape-Haugaard, L. & Sundvall, E., 2011, *SHI2011 Proceedings: 9th Scandinavian Conference on Health Informatics, 30 August 2011, Oslo, Norway*. Fensli, R. & Dale, J. G. (red.). Trondheim: TAPIR Akademisk Forlag, s. 61

Transversal interoperability for interdisciplinarity in e-Health: a study of models needed for interoperability in the Danish health system

Pape-Haugaard, L. B., 2011, Medical Informatics Group. Department of Health Science and Technology. Aalborg University.

Application of an Electronic Patient Medication Management System in ambulatory units

Wacker, K., Olsen, L. M. & Pape-Haugaard, L. B., 2010, *SHI2010 Proceedings: 8th Scandinavian Conference on Health Informatics, 23-24 August 2010, Copenhagen, Denmark*. Bygholm, A., Elberg, P. & Hejlesen, O. (red.). Trondheim: TAPIR Akademisk Forlag, s. 73

Conflicts between terminology and EHR information models as obstacles to semantic interoperability: a scientific review

Pape-Haugaard, L. B., Rasmussen, A. R., Elberg, P. B. & Andersen, S. K., 2010, *I: Studies in Health Technology and Informatics*. 160, s. 1374

E-sundhedsobservatoriets årskonference 2010: om drømme der bliver til virkelighed

Rosenbeck, K. H. & Pape-Haugaard, L. B., 2010, *I: Medicinsk Teknologi og Informatik*. 7, 6, s. 24-26

MEDINFO 2010, Cape Town, Sydafrika: kontraster og konference

Pape-Haugaard, L. B. & Rosenbeck, K. H., 2010, *I: Medicinsk Teknologi og Informatik*. 7, 5, s. 25-28

Pitfalls when integrating terminology systems and EHRs

Pape-Haugaard, L. B., Rasmussen, A. R., Rosenbeck, K. H. & Andersen, S. K., 2010, *SHI2010 Proceedings: 8th Scandinavian Conference on Health Informatics, 23-24 August 2010, Copenhagen, Denmark*. Bygholm, A., Elberg, P. & Hejlesen, O. (red.). Trondheim: TAPIR Akademisk Forlag, s. 34-38

E-sundhedsobservatoriets årskonference

Rosenbeck, K. H. & Pape-Haugaard, L. B., 2009, *I: Medicinsk Teknologi og Informatik*. 6, 6, s. 25-28

A set of minimum requirements to a national Danish IT-Architecture

Pape-Haugaard, L. & Andersen, S. K., 2008, *Proceedings Skandinaviska hälsoinformatik- och termkonferensen 2008, [6th Scandinavian Conference on Health Informatics, 12th Swedish National Term Conference, 26-28 August 2008, Kalmar, Sweden]*. Petersson, G., Staf, O. & Svensson, J. (red.). Högskolan i Kalmar. eHälsainstitutet, s. 51