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## Publications

### **The patient's perspective on rehabilitation with wireless accelerometers, activity tracking and motivational feedback following knee replacement: A qualitative study prior to a randomised controlled trial (KneeActivity)**

Skov, C. D., Høstgaard-Larsen, A., Kock Wiil, U., Lindberg-Larsen, M., Varnum, C. & Jensen, C. M., Dec 2024, In: International Journal of Medical Informatics. 192, 11 p., 105624.

### **Impact of motivational feedback on levels of physical activity and quality of life by activity monitoring following knee arthroplasty surgery-protocol for a randomized controlled trial nested in a prospective cohort (Knee-Activity)**

Skov, C. D., Lindberg-Larsen, M., Wiil, U. K., Varnum, C., Schmal, H., Jensen, C. M. & Høstgaard-Larsen, A., 2. Oct 2024, In: BMC Musculoskeletal Disorders. 25, 12 p., 778.

### **xECG-Beats: an explainable deep transfer learning approach for ECG-based heartbeat classification**

Peimankar, A., Ebrahimi, A. & Wiil, U. K., 23. Aug 2024, In: Network Modeling Analysis in Health Informatics and Bioinformatics. 13, 1, 13 p., 45.

### **Identification of patients' smoking status using an explainable AI approach: a Danish electronic health records case study**

Ebrahimi, A., Høstgaard Bang Henriksen, M., Lohman Brasen, C., Hilberg, O., Hansen, T. F., Jensen, L. H., Peimankar, A. & Wiil, U. K., 17. May 2024, In: BMC Medical Research Methodology. 24, 17 p., 114.

### **A Blockchain-Based Renewable Energy Authenticated Marketplace: BEAM of Flexibility**

Shaikh, M., Munir, S., Wiil, U. K. & Shaikh, A., 7. May 2024, *Advances in Emerging Information and Communication Technology*. Shaikh, A., Alghamdi, A., Tan, Q. & El Emary, I. M. M. (eds.). Springer Nature, p. 511-527 31. (Signals and Communication Technology).

### **Using data mining to discover new patterns of social media and smartphone use and emotional states**

Al-Saggaf, Y., Rahman, M. A. & Wiil, U. K., 17. Apr 2024, In: Social Network Analysis and Mining. 14, 10 p., 90.

### **Energy Expenditure Prediction from Accelerometry Data Using Long Short-Term Memory Recurrent Neural Networks**

Vibæk, M., Peimankar, A., Wiil, U. K., Arvidsson, D. & Brønd, J. C., Apr 2024, In: Sensors. 24, 8, 15 p., 2520.

### **Survival prediction of glioblastoma patients using modern deep learning and machine learning techniques**

Rikan, S. B., Azar, A. S., Naemi, A., Mohasefi, J. B., Pirnejad, H. & Wiil, U. K., 29. Jan 2024, In: Scientific Reports. 14, 1, 12 p., 2371.

### **A collection of multiregistry data on patients at high risk of lung cancer—a Danish retrospective cohort study of nearly 40,000 patients**

Høstgaard Bang Henriksen, M., Hansen, T. F., Jensen, L. H., Lohman Brasen, C., Peimankar, A., Ebrahimi, A., Wiil, U. K. & Hilberg, O., 26. Dec 2023, In: Translational Lung Cancer Research. 12, 12, p. 2392-2411

### **AUD-DSS: a decision support system for early detection of patients with alcohol use disorder**

Ebrahimi, A., Wiil, U. K., Baskaran, R., Peimankar, A., Andersen, K. & Nielsen, A. S., Dec 2023, In: BMC Bioinformatics. 24, 1, 24 p., 329.

### **Efficacy of a web-based health care innovation to advance the quality of life and care of patients with an Implantable Cardioverter Defibrillator (ACQUIRE-ICD): A randomized controlled trial**

Skov, O., Johansen, J. B., Nielsen, J. C., Larroudé, C. E., Riahi, S., Melchior, T. M., Vinther, M., Skovbakke, S. J., Rottmann, N., Wiil, U. K., Brandt, C. J., Smolderen, K. G., Spertus, J. A. & Pedersen, S. S., Dec 2023, In: EP - Europace. 25, 12, p. 1-9 ead253.

### **Important steps for artificial intelligence-based risk assessment of older adults**

Wiil, U. K., Oct 2023, In: *The Lancet Digital Health*. 5, 10, p. e635-e636

### **Editorial: Data-driven technologies for future healthcare systems**

Rahman, M. A., Moayedikia, A. & Wiil, U. K., 24. May 2023, In: *Frontiers in Medical Technology*. 5, 2 p.

### **Structured decision support to prevent hospitalisations of community-dwelling older adults in Denmark (PATINA): an open-label, stepped-wedge, cluster-randomised controlled trial**

Fournaise, A., Lauridsen, J. T., Nissen, S. K., Gudex, C., Bech, M., Mejldal, A., Wiil, U. K., Rasmussen, J. B., Kidholm, K., Matzen, L. E., Espersen, K. & Andersen-Ranberg, K., 30. Apr 2023, In: *The Lancet Healthy Longevity*. 4, 4, p. e132-e142

### **A Machine Learning Approach for Walking Classification in Elderly People with Gait Disorders**

Peimankar, A., Winther, T. S., Ebrahimi, A. & Wiil, U. K., 6. Jan 2023, In: *Sensors*. 23, 2, 23 p., 679.

### **Explainable Intrusion Detection for Internet of Medical Things**

Memon, S. A., Wiil, U. K. & Shaikh, M., 2023, *Proceedings of the 15th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management - KMIS*. Gruenwald, L., Masciari, E., Rolland, C. & Bernardino, J. (eds.). SCITEPRESS Digital Library, p. 40-51 (Proceedings of the International Conference on Knowledge Engineering and Ontology Development IC3K).

### **Monkeypox Detection Using Deep Neural Networks**

Azar, A. S., Naemi, A., Rikan, S. B., Mohasefi, J. B., Pirnejad, H. & Wiil, U. K., 2023, In: *BMC Infectious Diseases*. 23, 13 p., 438.

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### **Transformers for Detection of Distressed Cardiac Patients with an ICD Based on Danish Text Messages**

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### **Application of Machine Learning Techniques for Predicting Survival in Ovarian Cancer**

Azar, A. S., Rikan, S. B., Naemi, A., Mohasefi, J. B., Pirnejad, H., Mohasefi, M. B. & Wiil, U. K., 30. Dec 2022, In: *BMC Medical Informatics and Decision Making*. 22, 1, 24 p., 345.

### **Impact of laboratory biomarkers on ALS disease progression: a probabilistic causation approach**

Ahangaran, M., Peimankar, A., Wiil, U. K. & Chio, A., Dec 2022, In: *Network Modeling Analysis in Health Informatics and Bioinformatics*. 11, 1, 17 p., 43.

### **Identification of clinical factors related to prediction of alcohol use disorder from electronic health records using feature selection methods**

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### **Analysis and Visualization Features in PEVNET**

Rasheed, A., Wiil, U. K. & Khan, M. M. A., 29. Oct 2022, *MISNC 2022: The 9th Multidisciplinary International Social Networks Conference*. Association for Computing Machinery, p. 28-38

### **Short-term atrial fibrillation detection using electrocardiograms: A comparison of machine learning approaches**

Jahan, M. S., Mansourvar, M., Puthusserypady, S., Wiil, U. K. & Peimankar, A., Jul 2022, In: *International Journal of Medical Informatics*. 163, 11 p., 104790.

**A susceptibility network analysis of disease pathways leading to multiple sclerosis**

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**Forecasting the COVID-19 Spread in Iran, Italy, and Mexico Using Novel Nonlinear Autoregressive Neural Network and ARIMA-Based Hybrid Models**

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**Modeling and Evaluating the Impact of Social Restrictions on the Spread of COVID-19 Using Machine Learning**

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**Prediction of Anxiety and Depression in ICD-Patients using Machine Learning Algorithms**

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**Using Facial Landmark Detection on Thermal Images as a Novel Prognostic Tool for Emergency Departments**

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**Attitudes of Patients and Health Professionals Regarding Screening Algorithms: Qualitative Study**

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**Performance Evaluation of Emergency Department Patient Arrivals Forecasting Models by Including Meteorological and Calendar Information: A Comparative Study**

Sudarshan, V. K., Brabrand, M., Range, T. M. & Wiil, U. K., Aug 2021, In: Computers in Biology and Medicine. 135, 23 p., 104541.

**Cross-Cultural Bayesian Network Analysis of Factors Affecting Residents' Concerns About the Spread of an Infectious Disease Caused by Tourism**

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**Development of an internet-delivered program and platform for the treatment of depression and anxiety in patients with ischemic heart disease in eMindYourHeart**

Schmidt, T., Kok, R., Andersen, C. M., Skovbakke, S. J., Ahm, R., Wiil, U. K., Frostholt, L. & Pedersen, S. S., 2. Jun 2021, In: Informatics for Health and Social Care. 46, 2, p. 178-191

**Internet-based treatment of anxiety and depression in patients with ischaemic heart disease attending cardiac rehabilitation: a feasibility study (eMindYourHeart)**

Helmark, L., Ahm, R., Andersen, C. M., Skovbakke, S. J., Kok, R. N., Wiil, U. K., Schmidt, T., Hjelmberg, J. V. B., Frostholm, L., Frydendal, D. H., Hansen, T. B., Zwisler, A. D. O. & Pedersen, S. S., Jun 2021, In: *European Heart Journal - Digital Health*. 2, 2, p. 323–335

**Deep Neural Network to Identify Patients with Alcohol Use Disorder**

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**The gap between women's needs when diagnosed with asymptomatic osteoporosis and what is provided by the healthcare system: A qualitative study**

Jakobsen, P. R., Hermann, A. P., Søndergaard, J., Wiil, U. K., Myhre Jensen, C. & Clemensen, J., Mar 2021, In: *Chronic Illness*. 17, 1, p. 3-16

**Prevention of AcuTe admLssioN algorithm (PATINA): study protocol of a stepped wedge randomized controlled trial**

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**Efficacy and cost-effectiveness of a therapist-assisted web-based intervention for depression and anxiety in patients with ischemic heart disease attending cardiac rehabilitation [eMindYourHeart trial]: a randomised controlled trial protocol**

Pedersen, S. S., Andersen, C. M., Ahm, R., Skovbakke, S. J., Kok, R., Helmark, C., Wiil, U. K., Schmidt, T., Olsen, K. R., Hjelmberg, J., Zwisler, A.-D. & Frostholm, L., 7. Jan 2021, In: *BMC Cardiovascular Disorders*. 21, 1, p. 20

**A home-based self-administered assessment of neck proprioception**

Basteris, A., Tornbjerg, C. E., Leth, F. B. & Wiil, U. K., 2021, *Wireless Mobile Communication and Healthcare: 9th EAI International Conference, MobiHealth 2020, Virtual Event, November 19, 2020, Proceedings*. Ye, J., O'Grady, M. J., Civitarese, G. & Yordanova, K. (eds.). Springer, p. 133-144 (Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Vol. 362).

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### **Big Data Analytics in Healthcare: A Review of Opportunities and Challenges**

Mansourvar, M., Wiil, U. K. & Nohr, C., 29. Sept 2020, *Emerging Technologies in Computing: Third EAI International Conference, iCETiC 2020, London, UK, August 19–20, 2020, Proceedings*. Miraz, M. H., Excell, P. S., Ware, A., Soomro, S. & Ali, M. (eds.). Springer, p. 126-141 (Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Vol. 332).

### **Empowerment of whom? The gap between what the system provides and patient needs in hip fracture management: A healthcare professionals' lifeworld perspective**

Myhre Jensen, C., Santy-Tomlinson, J., Overgaard, S., Wiil, U. K., Jakobsen, P. R., Smith, A. C. & Clemensen, J., Aug 2020, In: *International Journal of Orthopaedic and Trauma Nursing*. 38, 100778.

### **A Predictive Machine Learning Model to Determine Alcohol Use Disorder**

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### **Google Trends and Seasonal Effects in Infodemiology: A Use Case About Obesity**

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### **Personalized Predictive Models for Identifying Clinical Deterioration Using LSTM in Emergency Departments**

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### **Prediction of Patients Severity at Emergency Department Using NARX and Ensemble Learning**

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### **Sundhedsteknologi og AI**

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### **Design and Evaluation of a Patient Monitoring Dashboard for Emergency Departments**

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### **Patient@home Ecosystem**

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### **Can Tele-Health Support Self-Care and Empowerment? A Qualitative Study of Hip Fracture Patients' Experiences With Testing an "App"**

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### **Design and Analysis of an Enhanced Multifactor Authentication Through a Covert Approach**

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### **Enhancing Gadgets for Blinds Through Scale Invariant Feature Transform**

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## **Recent Advances in Computational Intelligence**

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## **The Prediction of Alcohol Use Disorder: A Scoping Review**

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## **Help at hand: Women's experiences of using a mobile health application upon diagnosis of asymptomatic osteoporosis**

Jakobsen, P. R., Hermann, A. P., Søndergaard, J., Wiil, U. K. & Clemensen, J., 29. Oct 2018, In: *Sage Open Medicine*. 6, p. 1-11 11 p.

## **Effectiveness of a comprehensive interactive eHealth intervention on patient-reported and clinical outcomes in patients with an implantable cardioverter defibrillator [ACQUIRE-ICD trial]: study protocol of a national Danish randomised controlled trial**

Pedersen, S. S., Skovbakke, S. J., Wiil, U. K., Schmidt, T., dePont Christensen, R., Brandt, C. J., Sørensen, J., Vinther, M., Larroudé, C. E., Melchior, T. M., Riahi, S., Smolderen, K. G. E., Spertus, J. A., Johansen, J. B. & Nielsen, J. C., 3. Jul 2018, In: *BMC Cardiovascular Disorders*. 18, 12 p., 136.

## **Left in limbo – Experiences and needs among postmenopausal women newly diagnosed with osteoporosis without preceding osteoporotic fractures: A qualitative study**

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## **Development of an mHealth Application for Women Newly Diagnosed with Osteoporosis without Preceding Fractures: A Participatory Design Approach**

Jakobsen, P. R., Hermann, A. P., Søndergaard, J., Wiil, U. K. & Clemensen, J., 13. Feb 2018, In: *International Journal of Environmental Research and Public Health*. 15, 2, 16 p., 330.

## **Emotion-based content personalization in social networks**

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## **A Predictive Model for Acute Admission in Aged Population**

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## **Bridging the gap: A user-driven study on new ways to support self-care and empowerment for patients with hip fracture**

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## **Composite Visualization Features in PEVNET: A Framework for Visualization of Criminal Networks**

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## **Knowledge Computing and Its Applications: Knowledge Manipulation and Processing Techniques: Volume 1**

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### **Overview of slicing and feedback techniques for efficient verification of UML/OCL class diagrams**

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### **Effectiveness of Mobile Electrocardiogram in Healthcare: From Mobile Application and Development to Community Reaction**

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### **Visualizing Composites in PEVNET: A Framework for Visualization of Criminal Networks**

Rasheed, A. & Wiil, U. K., 17. Jul 2017, *Proceedings of the 4th Multidisciplinary International Social Networks Conference*. Association for Computing Machinery, 8 p. 8

### **A Personalized and Interactive Web-Based Health Care Innovation to Advance the Quality of Life and Care of Patients With Heart Failure (ACQUIRE-HF): A Mixed Methods Feasibility Study**

Pedersen, S. S., Schmidt, T., Skovbakke, S. J., Wiil, U. K., Egstrup, K., Smolderen, K. G. & Spertus, J. A., 23. May 2017, In: J M I R Research Protocols. 6, 5, 12 p., e96.

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### **Can user-involvement help bridge the gap in the osteoporosis continuum**

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### **"If only had I known": a qualitative study investigating a treatment of patients with a hip fracture with short time stay in hospital**

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### **A Development Environment for Building Component-Based Open Hypermedia Systems**

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## Activities

### **Aalborg Universitet (External organisation)**

Wiil, U. K. (Member)

1. Sept 2007 → 30. Oct 2007

### **Aalborg Universitet (External organisation)**

Wiil, U. K. (Member)

1. Mar 2007 → 30. Apr 2007

### **Aalborg Universitet (External organisation)**

Wiil, U. K. (Member)

1. Dec 2011 → 31. Dec 2011

### **Aarhus Universitet (External organisation)**

Wiil, U. K. (Member)

1. Jan 2008 → 31. Mar 2008

### **Aarhus Universitet (External organisation)**

Wiil, U. K. (Member)

1. Mar 2009 → 31. Mar 2009

### **Aarhus Universitet (External organisation)**

Wiil, U. K. (Member)

1. Dec 2009 → 31. Jan 2010

### **ACM Transactions on Internet Technology (Journal)**

Wiil, U. K. (Peer reviewer)

2006

### **Annals of Information Systems (Journal)**

Wiil, U. K. (Peer reviewer)

2009

### **BMC Emergency Medicine (Journal)**

Wiil, U. K. (Editor)

2016 → 2021

### **Censor (datalogi + elektro)**

Wiil, U. K. (Censor)

1. Jan 2009 → 31. Dec 2009

### **Censor (datalogi + elektro)**

Wiil, U. K. (Censor)

1. Jan 2008 → 31. Dec 2008

**Censor (datalogi + elektro)**

Wiil, U. K. (Censor)

1. Jan 2010 → 31. Dec 2010

**Censor (datalogi + elektro)**

Wiil, U. K. (Censor)

1. Jan 2011 → 31. Dec 2011

**Data & Knowledge Engineering (Journal)**

Wiil, U. K. (Peer reviewer)

2010

**Faggruppe til den bibliometriskeforskningsindikator (External organisation)**

Wiil, U. K. (Member)

2008 → ...

**Frontiers in Digital Health (Journal)**

Wiil, U. K. (Editor)

2021 → ...

**IEEE Pervasive Computing (Journal)**

Wiil, U. K. (Peer reviewer)

2005

**InnovationsHus Syd i Rødding (External organisation)**

Wiil, U. K. (Member)

1. Jan 2003 → 31. Dec 2011

**International Journal of Digital Libraries (Journal)**

Wiil, U. K. (Peer reviewer)

2009

**International Journal of Digital Libraries (Journal)**

Wiil, U. K. (Peer reviewer)

2010

**International Journal of Networking and Virtual Organisations (Journal)**

Wiil, U. K. (Editor)

1. Apr 2009 → 31. May 2009

**International Scholarly Research Notices (Journal)**

Wiil, U. K. (Editor)

2011 → 2017

**Journal of Healthcare Informatics Research (Journal)**

Wiil, U. K. (Editor)

2016 → ...

**Journal of Network and Computer Applications (Journal)**

Wiil, U. K. (Editor)

1999 → ...

**Journal of Web Engineering (Journal)**

Wiil, U. K. (Peer reviewer)

2006

**Network Modeling Analysis in Health Informatics and Bioinformatics (Journal)**

Wiil, U. K. (Editor)

2018 → ...

**New Review of Hypermedia (Journal)**

Wiil, U. K. (Peer reviewer)

2008

**Prevention of AcuTe admIssioN Algorithm (PATINA) – a structured decision support system for community nurses**

Fournaise, A. V. (Guest lecturer), Lauridsen, J. T. (Co-author), Kabell Nissen, S. (Co-author), Bech, M. (Co-author), Wiil, U. K. (Co-author), Kidholm, K. (Co-author), Espersen, K. (Co-author) & Andersen-Ranberg, K. (Co-author)

10. Jun 2022

**Roberta: Transportrobotten på Svendborg Sygehus**

Wiil, U. K. (Lecturer)

13. Apr 2010

**Security Informatics (Journal)**

Wiil, U. K. (Editor)

2011 → 2019

**Social Network Analysis and Mining (Journal)**

Wiil, U. K. (Editor)

2010 → ...

**Software: Practice and Experience (Journal)**

Wiil, U. K. (Peer reviewer)

2004

**University of Sindh Journal of Information and Communication Technology (Journal)**

Wiil, U. K. (Editor)

2017 → ...