Nordic Seminar on Technical Measurements of Physical Activity & Sedentary Behaviour
Early career researchers' sessions

Thursday 5.10.2023

Session 3a: Epidemiological session, Chair Prof. Sari Stenholm
Room: *Medisiina D, Säätiö hall*

15.00   Do organisational levels influence the physical behaviour among childcare workers? A variance component analysis using compositional data
Christian Tolstrup Wester, National Research Centre for the Working Environment, Denmark

Low back pain among eldercare workers: Defining the "Sweet-Spot" of daily durations of occupational physical behaviors composition
Stavros Kyriakidis, National Research Centre for the Working Environment, Denmark

Changes in 24-hour (non)-movement behaviour during the retirement transition: preliminary results of the 'Move into Retirement' study
Nina Vansweevelt, KU Leuven, Belgium

Do individuals with different personality profiles differ in their MVPA an SB patterns?
Johanna Ahola, University of Jyväskylä, Finland

Active break

15.45   Association of Accelerometer-measured Physical Activity and Midlife Income: A Northern Finland Birth Cohort 1966 Study
Hanna Junttila, Oulu Deaconess Institute Foundation, Finland

Do cardiorespiratory fitness and body composition modify the association between physical activity and menopausal symptoms?
Matti Hyvärinen, University of Jyväskylä, Finland

Fitness-related physical activity explains most of the association between accelerometer data and cardiometabolic health
Jonatan Fridolfsson, University of Gothenburg, Sweden

Feasibility and usability of the co-developed self-management program GAUdiS aimed at reducing sedentary time in older adults
Lisa Hultman, Mälardalen University, Sweden

Predictors associated with an increase in daily steps among people with prediabetes or type 2 diabetes participating in a two-year pedometer intervention
Kristina Larsson, Sophiahemmet University, Sweden

16:30   Closing of the day

Session 3b: Context-related session, Chair Dr. Tuija Leskinen
Room: *Medisiina D, Lauren 1 hall*

15.00   Domain-specific device-based physical activity data for adolescents
           Line Matthiesen, University of Southern Denmark, Denmark

           Investigating the use of different parts of a green area based on GPS tracking in older
           adults: work-in-progress
           Kirsi Keskinen, University of Jyväskylä, Finland

           The association between greenness and moderate-to-vigorous physical activity
           during active travel
           Sanna Pasanen, University of Turku, Finland

           Thinking out of the box – Can trajectory analyses be used to model mobility habits in
           older adults?
           Max Brauer, Universitätsmedizin Berlin, Germany

           Active break

15.45   Can camera-based user detections be an alternative to Direct Observations?
           Cathrine Damsbo Madsen, University of Southern Denmark, Denmark

           Concurrent validation of questions about physical activity and sedentary time in
           targeted health dialogues in Sweden
           Lisbeth Johansson, Jönköping University, Sweden

           Validity of IMU-sensors for assessing gait features of older adults in hilly environment
           outdoors
           Emmi Matikainen-Tervola, JAMK University of Applied Sciences, Finland

           The influence of season and day of week on physical activity in different age groups:
           The HUNT4 Study
           Atle Kongsvold, Norwegian University of Science and Technology (NTNU), Norway

16:30   Closing of the day

Session 3c: Technical session, Chair Dr. Kristin Suorsa
Room: *Medisiina D, Blokki 2 (D1054)*

15.00   Influence of accelerometer calibration on the estimation of objectively measured physical activity: The Tromsø Study
            Marc Weitz, UiT – The arctic university of Norway

            Validation of two accelerometers measuring physical activity in children
            Anna Stage, University of Copenhagen, Denmark

            Comparison of free-living physical activity assessment based on accelerometry versus heart rate in community dwelling older adults
            Joona Neuvonen, University of Jyväskylä, Finland

            Deep learning versus classical machine learning for predicting 24-hour movement behaviours: A comparative analysis of handcrafted features and raw acceleration signal
            Alireza Sameh, University of Oulu, Finland

            Active break

15.45   A framework for developing novel AI-based classifiers from movement recordings
            Manu Airaksinen, Helsinki University Hospital (HUS), Finland

            Free-living sit-to-stand kinematics as indicator of lower extremity physical function
            Antti Löppönen, University of Jyväskylä, Finland & KU Leuven, Belgium

            Muscle contractile inactivity increases proportional to sedentary bout duration
            Christian Brakenridge, South- Eastern Finland University of Applied Sciences, Finland

            Activation patterns of thigh and gluteal muscles during prolonged sitting and five different active countermeasures
            Suvi Lamberg, South- Eastern Finland University of Applied Sciences, Finland

            Identification of Heavy Lifting using simple wearables (LiftID): Development and Evaluation
            Markus D. Jakobsen, National Research Centre for the Working Environment, Denmark

16:30   Closing of the day