

Development of methods for real-time in-step anomaly detection in gait analysis = Reaalajaliste meetodite arendus sammusiseste kõrvalkallete tuvastamiseks kõnnianalüüsis

Rostovski, Jakob 2025 https://www.ester.ee/record=b5734578*est <https://digikogu.taltech.ee/et/Item/c25ff8f8-a46a-45ce-b231-23d2d52e7f54>
<https://doi.org/10.23658/taltech.15/2025>

Kuidas selja sirgu saab? Insenerid ja arstid arendasid välja nutikorseti!

Vill, Ants director.ee 2022 <https://director.ee/2022/07/14/kuidas-selja-sirgu-saab-insenerid-ja-arstid-arendasid-valja-nutikorseti/>

Matrix Profile based anomaly detection in streaming gait data for fall prevention

Gerazov, Branislav; Hadjieva, Elena; **Krivošei, Andrei; Sanchez, Fiorella Ines Soto; Rostovski, Jakob; Kuusik, Alar; Alam, Muhammad Mahtab** 2023 30th International Conference on Systems, Signals and Image Processing (IWSSIP) 2023 / p. 1-5
<https://doi.org/10.1109/IWSSIP58668.2023.10180243>

Method and system for real-time motion abnormality detection

Krivošei, Andrei; Kuusik, Alar; Rostovski, Jakob; Alam, Muhammad Mahtab 2024
https://patentscope2.wipo.int/search/ar/detail.jsf;jsessionid=4F73F7EDD8684B2050668D97A6E3E4BC?docId=WO2024257016&_cid=JP2-M52SGO-27841-1

Novel real-time in-step gait anomaly detection algorithms

Rostovski, Jakob; Krivošei, Andrei; Kuusik, Alar; Le Moullec, Yannick; Alam, Muhammad Mahtab techrxiv.org 2024
<https://doi.org/10.36227/techrxiv.171173236.66440239/v1>

Real-time gait anomaly detection using 1D-CNN and LSTM

Rostovski, Jakob; Ahmadilivani, Mohammad Hasan; Krivošei, Andrei; Kuusik, Alar; Alam, Muhammad Mahtab Digital Health and Wireless Solutions : First Nordic Conference, NCDHWS 2024, Oulu, Finland, May 7–8, 2024 : Proceedings, Part II 2024 / p. 260-278 https://doi.org/10.1007/978-3-031-59091-7_17 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Real-time gait anomaly detection using SVM time series classification

Rostovski, Jakob; Krivošei, Andrei; Kuusik, Alar; Alam, Muhammad Mahtab; Ahmadov, Ulvi 2023 International Wireless Communications and Mobile Computing (IWCMC) 2023 / p. 1389-1394 <https://doi.org/10.1109/IWCMC58020.2023.10182666>

SVM Time series classification of selected gait abnormalities

Rostovski, Jakob; Krivošei, Andrei; Kuusik, Alar; Ahmadov, Ulvi BODYNETS 2021: Body Area Networks. Smart IoT and Big Data for Intelligent Health Management : 16th EAI International Conference, BODYNETS 2021, Virtual Event, October 25-26, 2021 : proceedings 2022 / 15 p https://doi.org/10.1007/978-3-030-95593-9_16 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)