

### **Design of experimental stand for human gait imitation**

**Zhigailov, Sergei; Musalimov, Victor; Arjassov, Gennadi** Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 300-304 : ill

### **Enhancing cerebral palsy gait analysis with 3D computer vision : a dual-camera approach**

**Valla, Elli; Kanter, Gert; Nõmm, Sven; Kuusk, Anton Osvald; Maran, Peeter; Seenmaa, Karl Mihkel; Mägi, Killu; Toomela, Aaro** 2024 10th International Conference on Control, Decision and Information Technologies (CoDIT) 2024 / p. 1352-1357

<https://doi.org/10.1109/CoDIT62066.2024.10708137> [Article at Scopus](#)

### **Forward and backward walking : multifactorial characterization of gait parameters**

Donno, Lucia; **Monoli, Cecilia**; Frigo, Carlo Albino; Galli, Manuela Sensors 2023 / art. 4671 <https://doi.org/10.3390/s23104671> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Latest research trends in gait analysis using wearable sensors and machine learning: A systematic review**

**Saboor, Abdul; Kask, Triin; Kuusik, Alar; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE Access 2020 / art. 3022818, p. 167830–167864 <https://doi.org/10.1109/ACCESS.2020.3022818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

### **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>

### **Model predictive control for modeling human gait motions assisted by Vicon technology**

**Vu, Trieu Minh; Tamre, Mart**; Musalimov, Victor; Kovalenko, Pavel; Rubinshtein, Irina; Ovchinnikov, Ivan; Krcmarik, David; Moezzi, Reza Journal Europeen des systemes automatises 2020 / p. 589–600 <https://doi.org/10.18280/jesa.530501> [Journal metrics at Scopus](#)

[Article at Scopus](#)

### **Modeling human gait based on model predictive control**

Ovchinnikov, Ivan; **Vu, Trieu Minh**; Kovalenko, Pavel Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 185-190 : ill <http://innomet.ttu.ee/daaam/>

### **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](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](https://doi.org/10.1007/978-3-030-95593-9_16) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Моделирование походки человека в среде MATLAB/SIMULINK**

Ovchinnikov, Ivan; Kovalenko, Pavel; **Vu, Trieu Minh** Известия высших учебных заведений. Приборостроение = Journal of instrument engineering 2016 / с. 690-694 : ил <http://dx.doi.org/10.17586/0021-3454-2016-59-8-690-694>