

Modeling of the human lower-limb motion, design and control of knee joint orthosis

Musalimov, Victor; Monahov, Yury; **Tamre, Mart**; Rõbak, Dmitri; **Sivitski, Alina**; Aryassov, Gennady; **Penkov, Igor** International review on modelling and simulations (IREMOS) 2017 / p. 371-376 <https://doi.org/10.15866/iremos.v10i5.11853> [Journal metrics at Scopus](#) [Article at Scopus](#)

Modelling of the human knee joint supported by active orthosis

Musalimov, Victor; Monahov, Yuri; **Tamre, Mart**; Rõbak, Dmitri; **Sivitski, Alina**; **Arjassov, Gennadi**; **Penkov, Igor** International journal of applied mechanics and engineering 2018 / p. 107-120 : ill <https://doi.org/10.1515/ijame-2018-0007> [Journal metrics at Scopus](#) [Article at Scopus](#)

Motion imitation of the human pelvic and hip joints

Musalimov, Victor; **Arjassov, Gennadi**; **Žigailov, Sergei**; Rõbak, Dmitri; **Penkov, Igor** Mechatronics systems and materials 2018 2018 / art. 020046, 6 p. : ill <https://doi.org/10.1063/1.5066508> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Precision of simulation models of human lower limb motion

Rõbak, Dmitri; Musalimov, Victor; **Arjassov, Gennadi**; **Penkov, Igor** The 16th International Conference "Mechatronic Systems and Materials" : MSM 2021 July 1, 2021 - July 2, 2021 : abstract book 2021 / p. 9-11 <https://vb.vgtu.lt/object/elaba:100810507/100810507.pdf>

Some methods to operate artificial limbs using EMG technology

Rõbak, Dmitri 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 237-239 : ill

Various ways for controlling different types of devices using EMG signals

Rõbak, Dmitri; **Penkov, Igor** Machines, technologies, materials 2017 / p. 128-130 : ill <http://stumejournals.com/mtm.html>

Various ways for controlling different types of devices using EMG technology

Rõbak, Dmitri Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015 2015 / p. 174-176 : ill