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MIND CONTROLLED ORTHOSIS AND VIRTUAL REALITY TRAINING ENVIRONMENT FOR WALK EMPOWERING

Results

Project Information

MINDWALKER

Grant agreement ID: 247959

Project closed

Start date

1 January 2010

End date

31 May 2013

Funded under

Specific Programme "Cooperation": Information and communication technologies

Total cost

€ 3 662 278,00

EU contribution

€ 2 750 000,00

Coordinated by

SPACE APPLICATIONS SERVICES NV

 Belgium

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Publications

Publications via OpenAIRE (34)



[Modeling human walk by PCPG for lower limb neuroprosthesis control](#)

Author(s): Duvinage M.; Castermans T.; Hoellinger T.; Cheron G.; Dutoit T.

Published in: IEEE2011 5th International IEEE/EMBS Conference on Neural Engineering, NER 2011 2011

Permanent ID: Digital Object Identifier:10.1109/ner.2011.5910551; Microsoft Academic Graph Identifier:2137506845

[From Spinal Central Pattern Generators to Cortical Network: Integrated BCI for Walking Rehabilitation](#)



Author(s): Cheron, G; Duvinage, M; De Saedeleer, C; Castermans, T; Bengoetxea, A; Petieau, M; Seetharaman, K; Hoellinger, T; Dan, B; Dutoit, T; Sylos Labini, F; LACQUANITI, FRANCESCO; Ivanenko, Y.

Published in: WileyNeural Plasticity, 2012 2012

Permanent ID: Digital Object Identifier:10.1155/2012/375148; PubMed ID:22272380; PubMed Central ID:PMC3261492; Microsoft Academic Graph Identifier:2044387078; Handle:2108/62729; Handle:2013/ULB-DIPOT:oai:dipot.ulb.ac.be:2013/183207; Handle:2013/ULB-DIPOT:oai:dipot.ulb.ac.be:2013/162295

[Control of Leg Movements Driven by EMG Activity of Shoulder Muscles](#)

Author(s): Valentina eLa Scaleia; Valentina eLa Scaleia; Francesca eSylos Labini; Francesca eSylos Labini; Thomas eHoellinger; Letian eWang; Guy eCheron; Francesco eLacquaniti; Francesco eLacquaniti; Yuri P Ivanenko

Published in: Frontiers Media SAFrontiers in Human Neuroscience, Vol 8 (2014) 2014

Permanent ID: Digital Object Identifier:10.3389/fnhum.2014.00838; PubMed ID:25368569; PubMed Central ID:PMC4202724; Microsoft Academic Graph Identifier:2050318530; Handle:2108/97027; Handle:2013/ULB-DIPOT:oai:dipot.ulb.ac.be:2013/187664

[Metodología para priorización de puestos en concursos de merecimientos y oposición en instituciones de educación superior](#)

Author(s): Mariangela Andreina Pinto Ocanto; Eddy Stalin Alvarado Pacheco; Clarita Vanessa Gavilánez Cárdenas; Jorge Estuardo Goyes Noboa

Published in: Universidad Estatal Peninsula de Santa ElenaRevista Ciencias Pedagógicas e Innovación, Vol 10, Iss 1, Pp 39-46 (2022) 2022

Permanent ID: Digital Object Identifier:10.26423/rcpi.v10i1.549

[Recurrence quantification analysis of gait in normal and hypovestibular subjects](#)

Author(s): Sylos Labini, F.; Meli, A.; Ivanenko, Y. P.; Tufarelli, D.

Published in: Elsevier BV Gait and Posture 2012

Permanent ID: Digital Object Identifier:10.1016/j.gaitpost.2011.08.004; PubMed ID:21900012; Microsoft Academic Graph Identifier:2035425174; Handle:2108/348384

[Plasticity and Different Solutions to Reorganize Muscle Patterns during Gait](#)

Author(s): Ivanenko, Yp; Cappellini, G; Solopova, Ia; Grishin, Aa; Maclellan, Mj; Poppele, Re; LACQUANITI, FRANCESCO

Published in: Springer Berlin Heidelberg Crossref 2013

Permanent ID: Digital Object Identifier:10.1007/978-3-642-34546-3_208; Microsoft Academic Graph Identifier:976448632; Handle:2108/141510

[Spring uses in exoskeleton actuation design](#)

Author(s): Wang S.; Van Dijk W.; Van Der Kooij H.

Published in: IEEE International Conference on Rehabilitation Robotics 2011

Permanent ID: Digital Object Identifier:10.1109/icorr.2011.5975471; PubMed ID:22275669; Microsoft Academic Graph Identifier:2137264985

[Assisted leg displacements and progressive loading by a tilt table combined with FES promote gait recovery in acute stroke](#)

Author(s): Solopova I.A.; Tihonova D.Y.; Grishin A.A.; Ivanenko Y.P.

Published in: SAGE Publications NeuroRehabilitation 2011

Permanent ID: Digital Object Identifier:10.3233/nre-2011-0679; PubMed ID:21876298; Microsoft Academic Graph Identifier:1870969518

[Locomotor body scheme](#)

Author(s): Ivanenko, YP; Dominici, N; DAPRATI, ELENA; Nico, D; Cappellini, G; LACQUANITI, FRANCESCO

Published in: Elsevier BV Human Movement Science 2011

Permanent ID: Digital Object Identifier:10.1016/j.humov.2010.04.001; PubMed ID:21453667; Handle:1871.1/cd2e6ace-2295-4d71-9b50-18892fbdfffb; Microsoft Academic Graph Identifier:2072293689; Handle:2108/19620; Handle:11573/385939

[EMG patterns during assisted walking in the exoskeleton](#)

Author(s): Francesca eSylos-Labini; Francesca eSylos-Labini; Valentina eLa Scaleia; Valentina eLa Scaleia; Andrea ed'Avella; Iolanda ePisotta; Federica eTamburella; Giorgio eScivoletto; Marco eMolinari; Shiqian eWang; Letian eWang; Edwin eAsseldonk; Herman van der Kooij; Herman van der Kooij; Thomas eHoellinger; Guy eCheron; Freygardur eThorsteinsson; Michel ellzkovitz; Jeremi eGancet; Ralf eHauffe; Frank eZanow; Francesco eLacquaniti; Francesco

eLacquaniti; Francesco eLacquaniti; Yuri P Ivanenko

Published in: Frontiers Media SA Frontiers in Human Neuroscience, 8 (JUNE 2014)

Permanent ID: Digital Object Identifier:10.3389/fnhum.2014.00423; PubMed ID:24982628; PubMed Central ID:PMC4058900; Microsoft Academic Graph Identifier:2117656142; Handle:2108/87370; Handle:11573/708866; Handle:11570/3067510; Handle:2013/ULB-DIPOT:oai:dipot.ulb.ac.be:2013/183618

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[Metodología para priorización de puestos en concursos de merecimientos y oposición en instituciones de educación superior](#) 

Author(s): Goyes Noboa, Jorge Estuardo; Gavilánez Cárdenas, Clarita Vanessa; Alvarado Pacheco, Eddy Stalin; Pinto Ocanto, Marianela Andreina

Published in: La Libertad: Universidad Estatal Península de Santa Elena, 2022.

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Permalink: <https://cordis.europa.eu/project/id/247959/results>

European Union, 2025