DECODING THE NEURAL CODE OF HUMAN MOVEMENTS FOR A NEW GENERATION OF MAN-MACHINE INTERFACES

Résultats

Informations projet

DEMOVE

N° de convention de subvention: 267888

Projet clôturé

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Les liens vers les livrables et les publications des projets du 7e PC, ainsi que les liens vers certains types de résultats spécifiques tels que les jeux de données et les logiciels, sont récupérés dynamiquement sur OpenAIRE.

Publications

Publications via OpenAIRE (124)

Reflections on the present and future of upper limb prostheses
Auteurs: Farina, Dario; Amsuess, Sebastian
Publié dans: Informa UK LimitedCrossref 2016
Identifiant permanent: Digital Object Identifier:10.1586/17434440.2016.1159511; PubMed ID:26924191; Microsoft Academic Graph Identifier:2328361113

Simultaneous myoelectric control of a robot arm using muscle synergy-inspired inputs from high-density electrode grids
Auteurs: Mark Ison; Ivan Vujaklija; Bryan Whitsell; Dario Farina; Panagiotis Artemiadis
Publié dans: IEEE2015 IEEE International Conference on Robotics and Automation (ICRA) 2015
Identifiant permanent: Digital Object Identifier:10.1109/icra.2015.7140108; Microsoft Academic Graph Identifier:1597561460

Estimation of Grasping Force from Features of Intramuscular EMG Signals with Mirrored Bilateral Training
Auteurs: Winnie Jensen; Ernest Nlandu Kamavuako; Dario Farina; Dario Farina; Ken Yoshida; Ken Yoshida
Publié dans: Springer Science and Business Media LLCAnnals of Biomedical Engineering 2011
Identifiant permanent: Digital Object Identifier:10.1007/s10439-011-0438-7; PubMed ID:22006428; Microsoft Academic Graph Identifier:1999479044

High-Density Electromyography and Motor Skill Learning for Robust Long-Term Control of a 7-DoF Robot Arm
Auteurs: Mark Ison; Ivan Vujaklija; Bryan Whitsell; Dario Farina; Panagiotis Artemiadis
Publié dans: Institute of Electrical and Electronics Engineers (IEEE)IEEE

Transactions on Neural Systems and Rehabilitation Engineering 2016
Identifiant permanent: Digital Object Identifier:10.1109/tnsre.2015.2417775; PubMed ID:25838524; Microsoft Academic Graph Identifier:2330701174

Assessment of the Electrophysiological Properties of the Muscle Fibers of a Transplanted Hand
Auteurs: Farina D; Lanzetta M; Falla D.
Publié dans: Ovid Technologies (Wolters Kluwer Health)Transplantation 2011
Identifiant permanent: Digital Object Identifier:10.1097/tp.0b013e318234b31b; PubMed ID:21978996; Microsoft Academic Graph Identifier:2327910795

Proceedings of the Computational Neuroscience & Neurotechnology Bernstein Conference & Neurex Annual Meeting 2011
Auteurs: Negro F; Dideriksen JL; Farina D

Recruitment of motor units in two fascicles of the semispinalis cervicis muscle
Auteurs: Schomacher J; Dideriksen JL; Farina D; Falla D.
Publié dans: American Physiological SocietySchomacher , J , Dideriksen , J L , Farina , D & Falla , D 2012 , ' Recruitment of motor units in two fascicles of the semispinalis cervicis muscle ' , Journal of Neurophysiology , vol. 107 , no. 11 , pp. 3078-3085 . https://doi.org/10.1152/jn.00953.2011 2012
Identifiant permanent: Digital Object Identifier:10.1152/jn.00953.2011; PubMed ID:22402657; PubMed Central ID:PMC3378367; Microsoft Academic Graph Identifier:2014421499

Proceedings of the ICNR 2012 Conference
Auteurs: M Sartori; L Gizzi; D Farina
Publié dans: ICNRHybrid Neuromusculoskeletal Modeling 2012

The Extraction of Neural Information from the Surface EMG for the Control of Upper-Limb Prostheses: Emerging Avenues and Challenges
Auteurs: Farina D.; Jiang N.; Rehbaum H.; Holobar A.; Graimann B.; Dietl H.; Aszmann O. C.
Publié dans: Institute of Electrical and Electronics Engineers (IEEE)IEEE Transactions on Neural Systems & Rehabilitation Engineering 2014
Identifiant permanent: Digital Object Identifier:10.1109/tnsre.2014.2305111; PubMed ID:24760934; Microsoft Academic Graph Identifier:2066327120; Handle:20.500.12556/DKUM-48144

Robust decomposition of single-channel intramuscular EMG signals at low force levels
Auteurs: Dario Farina; Kevin C. McGill; Hamid Reza Marateb; Hamid Reza Marateb; Silvia Muceli; Silvia Muceli; Roberto Merletti
Publié dans: IOP PublishingMarateb , H R , Muceli , S , McGill , K C , Merletti , R & Farina , D 2011 , ' Robust decomposition of single-channel intramuscular EMG signals at low force levels ' , Journal of Neural Engineering , vol. 8 , no. 6 ,

pp. Article No. 066015 . https://doi.org/10.1088/1741-2560/8/6/066015 2011
Identifiant permanent: Digital Object Identifier:10.1088/1741-2560/8/6/066015; PubMed ID:22063475; Microsoft Academic Graph Identifier:2069160783; Handle:11583/2495965

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Voir les 124 résultats

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