

Area Funzionale Neurologica (Riabilitazione Neurologica e Unità Gravi Cerebrolesioni Acquisite)

Pubblicazioni Scientifiche

Riviste internazionali

Doricchi F, Guariglia P, Gasparini M, Tomaiuolo F. Dissociation between physical and metal number line bisection in right hemisphere brain damage. *Nat. Neurosci.* 2005 Dec;8(12):1663-5.

Mazzoleni S, Aliboni S, Pierini G, Rossi G, Cesqui B, Posteraro F, Carrozza MC, Micera S, Dario P. An innovative robot-mediated therapy for the upper limb of elderly chronic hemiparetic subjects. *Gerontechnology.* 2008; 7(2): 162.

Doricchi F, Thiebaut de Schotten M, Tomaiuolo F, Bartolomeo P. White matter (dis)connections and gray matter (dys)functions in visual neglect: gaining insights into the brain networks of spatial awareness. *Cortex.* 2008 Sep;44(8):983-95.

Moro V, Berlucchi G, Lerch J, Tomaiuolo F, Aglioti SM. Selective deficit of metal visual imagery with intact primary visual cortex and visual perception. *Cortex.* 2008 Feb;44(2):109-18.

Doricchi F, Merla S, Aiello M, Guariglia P, Bruschini M, Gevers W, Gasparini M, Tomaiuolo F. Spatial orienting biases in the decimal numeral system. *Curr Biol.* 2009 Apr 28;19(8):682-7.

Posteraro F, Mazzoleni S, Aliboni S, Cesqui B, Battaglia A, Carrozza MC, Dario P, Micera S. A robot-mediated therapy for paretic upper limb of chronic patients following a neurological injury. *J Rehabil Med.* 2009; 41(12/November) 976-980.

Tomaiuolo F, Voci L, Bresci M, Cozza S, Posteraro F, Oliva M, Doricchi F. Selective visual neglect in right brain damaged patients with splenial interhemispheric disconnection. *Exp Brain Res.* 2010 Oct;206(2):209-17

Fiori V, Coccia M, Marinelli CV, Vecchi V, Bonifazi S, Ceravolo MG, Provinciali L, Tomaiuolo F, Marangolo P. Transcranial direct current stimulation improves word retrieval in healthy and nonfluent aphasic subjects. *J Cogn Neurosci.* 2010 Oct 14.

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Posteraro F, Mazzoleni S, Aliboni S, Cesqui B, Battaglia A, Carrozza MC, Dario P, Micera S.

Upper limb spasticity reduction following active training: a robot-mediated study in chronic hemiparetic patients. *J Rehabil Med.* 2010 42 (3/March) 279-281

Mazzoleni, F. Posteraro, M. Filippi, F. Forte, S. Micera, P. Dario, M. C. Carrozza. Biomechanical assessment of reaching movements in post-stroke patients during a robot-aided rehabilitation. *Appl. Bionics Biomech.* 2011 vol. 8, n.1

Yeterian EH, Pandya DN, Tomaiuolo F, Petrides M. The cortical connectivity of the prefrontal cortex in the monkey brain. *Cortex*, (in press).

Logi F, Pasqualetti P, Tomaiuolo F. Predict recovery of consciousness in post-acute severe brain injury: the role of EEG reactivity. *Brain Injury* (in press)

Petrides M, Tomaiuolo F, Yeterianc EH, Pandya DN. The prefrontal cortex: comparative architectonic organization in the human and the macaque monkey brains. *Cortex*, (in press).

Congressi internazionali

Cesqui B, Aliboni S, Mazzoleni S, Carrozza MC, Posteraro F, Micera. On the use of divergent force fields in robot-mediated neurorehabilitation. in *Proc. The 2nd IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics*; 2008; Scottsdale, Arizona, USA; 854- 861.

Fonda C, Mortella M, Cappellini M, Tomaiuolo F. Brain abnormality in chromosomal disorders. in Naidich, Castillo, Cha, Raybaud, and Smirniotopoulos "Imaging of the Brain and Spine"; Elsevier; 2008.

Tomaiuolo F, Di Paola M, Lerch J. The severe TBI and the neuroradiological/neuroanatomical (VBM) features during rehabilitation and in the chronic phase. *International Workshop. The rehabilitation of the severe acquired brain injury (ABI): open controversies.* Rome, 27/29 November 2008.

Merla S, Guariglia P, Aiello M, Bruschini M, Gevers W, Tomaiuolo F, Dormicchi F. Functional and anatomical correlates of number interval bisection: the organization of the decimal system in the brain. *First Meeting of the Federation of the ESN (European Societies of Neuropsychology) – Edinburgh, 2/5 September 2008.*

Dormicchi F, Merla S, Urbansky M, Cercignani M, Thiebaut de Schotten M, Bartolomeo P, Bozzali M, Tomaiuolo F. The role of parietal-frontal disconnection in unilateral spatial neglect: a DTI-MRI study. *First Meeting of the Federation of the ESN (European Societies of Neuropsychology) – Edinburgh, 2/5 September 2008.*

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biomechanical and EEG-based approach for functional assessment. In Proc. 11th IEEE International Conference on Rehabilitation Robotics; 2009; Kyoto, Japan; 92-97.

Mazzoleni S, Carrozza MC, Dario P, Micera S, Posteraro F. Effects of different robot-aided approaches for the upper limb rehabilitation in neurological impaired patients. 6th World Congress on Neurorehabilitation (WCNR 2010), Vienna, Austria, March 21-25, 2010.

Mazzoleni S, Crecchi R, Carrozza MC, Posteraro F. Assessment of the upper limb robot-aided rehabilitation in chronic hemiparetic patients: a biomechanical approach. 17th Physical and Rehabilitation Medicine European Congress, Venice, Italy, 23 - 27 May 2010.

Mazzoleni S, Crecchi R, Carrozza MC, Posteraro F. Assessment effects of different upper limb robot-aided approaches in chronic hemiparetic patients. 17th Physical and Rehabilitation Medicine European Congress, Venice, Italy, 23 - 27 May 2010.

Mazzoleni S, Posteraro F, Falchi E, Micera S, Puzzolante L, Dario P, Carrozza MC. Robot-aided training in stroke subjects: a biomechanical approach for the upper limb assessment, Workshop on "Future Trend in Rehabilitation Robotics", 3rd IEEE/RAS-EMBS International Conference on Biomedical Robotics and Biomechatronics, Tokyo, Japan, September 26, 2010.

Mazzoleni S, Filippi M, Falchi E, Puzzolante L, Micera S, Dario P, Carrozza MC, Posteraro F. Mechanisms of motor recovery in chronic vs subacute stroke patients following a robot-aided training: an experimental hypothesis, 7th World Stroke Congress, Seoul, Korea, October 13-16, 2010.