

LIST OF PUBLICATIONS DR. ING. MICHELE FOLGHERAITER

International Journals:

- [1] S. Feyzabadi, S. Straube, M. Folgheraiter, E. Kirchner, S. Kim, and J. Albiez, "Human force discrimination during active arm motion for force feedback design," *IEEE Transactions on Haptic (Accepted)*, 2013.
- [2] G. Gini, M. Arveti, I. Somlai, and M. Folgheraiter, "Acquisition and analysis of emg signals to recognize multiple hand movements for prosthetic applications," *Applied Bionics and Biomechanics*, vol. 9, no. 2, pp. 145–155, 2012.
- [3] M. Folgheraiter, M. Jordan, S. Straube, A. Seeland, S. Kim, and E. Kirchner, "Measuring the improvement of the interaction comfort of a wearable exoskeleton," *International Journal of Social Robotics*, vol. 4, no. 3, pp. 285–302, 2012.
- [4] M. Folgheraiter, J. de Gea, B. Bongardt, J. Albiez, and F. Kirchner, "Bio-inspired control of an arm exoskeleton joint with active-compliant actuation system," *Applied Bionics and Biomechanics*, vol. 6, no. 2, pp. 193–204, Jun. 2009.
- [5] G. Gini, M. Folgheraiter, and U. Scarfogliero, "New joint design to create a more natural and efficient biped," *Applied Bionics and Biomechanics*, vol. 6, no. 1, pp. 27–42, Mar. 2009.
- [6] M. Folgheraiter, G. C. Gini, and D. L. Vercesi, "A multi-modal haptic interface for virtual reality and robotics," *Journal of Intelligent and Robotic Systems*, vol. 52, no. 3-4, pp. 465–488, 2008.
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- [9] G. Gini, M. Folgheraiter, M. Mulas, and U. Scarfogliero, "Rehabilitation robotics, disability and advanced research at the politecnico di milano," *Journal of the Politecnico di Milano*, no. 10, pp. 84–87, 2006, national Journal.
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Books Chapters:

- [11] M. Folgheraiter, M. Jordan, L. M. V. Benitez, F. Grimmering, S. Schmidt, J. Albiez, and F. Kirchner, *Development of a Low-Pressure Fluidic Servo-valve for Wearable Haptic Interfaces and Lightweight Robotic Systems*, ser. Lecture Notes in Electrical Engineering. Springer, 2011, vol. 89, ISSN: 978-3-642-19538-9.
- [12] M. Folgheraiter, U. Scarfogliero, G. C. Gini, and F. Moro, *Humanoid Robots: A Biologically Founded Design and Control of a Humanoid Biped*, B. Choi, Ed., January 2009, ISBN: 978-953-7619-44-2.
- [13] M. Folgheraiter and G. Gini, *Biomimetic Neural Learning for Intelligent Robots, Chapter Title: MaximumOne: An Anthropomorphic Arm with Bio-inspired Control System*, G. P. M. E. Stefan Wermter, Ed. Springer, Heidelberg, July 2005, ISBN: 3-540-27440-5.
- [14] U. Scarfogliero, M. Folgheraiter, and G. Gini, *Biomimetic Neural Learning for Intelligent Robots, Chapter Title: LARP, Biped Robot Conceived as Human Modelling*, G. P. M. E. Stefan Wermter, Ed. Springer, Heidelberg, July 2005, ISBN: 3-540-27440-5.

- [15] M. Folgheraiter, I. Baragiola, and G. Gini, *LNCS, Knowledge Exploration in Life Science Informatics: Teaching Grasping to a Humanoid Hand as a Generalization of Human Grasping Data*, J. L. et al., Ed. Springer-Verlag Berlin Heidelberg, 2004, vol. 3303, INAI 3303.

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