**Voice Activated**

Towers, Kevin & Barnes, Kevin & Wallace, Craig, 2005, ‘Voice Recognition for Prosthetic Control Case Study,’ *MEC ’05 Integrating Prosthetic and Medicine*, Fredericton, New Brunswick, Canada, August 17-19, 2005.

Asyali, Musa Hakan et al, 2011, ‘Design and implementation of a voice-controlled prosthetic hand’, Turk J Elec Eng & Comp Sci, Vol. 19, No. 1, doi:10.3906/elk-0912-315.

Ángel-López, J. P., & Peña, N. A. (2017). Voice Controlled Prosthetic Hand with Predefined Grasps and Movements. VII Latin American Congress on Biomedical Engineering CLAIB 2016, Bucaramanga, Santander, Colombia, October 26th -28th, 2016 IFMBE Proceedings, 520-523. doi:10.1007/978-981-10-4086-3\_131

**MyoBand**

Morais, Gabriel Doretto, et al. “Application of Myo Armband System to Control a Robot Interface.” Proceedings of the 9th International Joint Conference on Biomedical Engineering Systems and Technologies, 2016, doi:10.5220/0005706302270231.

Masson, S., Fortuna, F., Moura, F., Soriano, D., do ABC, S.B.d.C.: Integrating myo armband for the control of myoelectric upper limb prosthesis. Proceedings of the XXV Congresso Brasileiro de Engenharia Biomédica (2016)

Mendez, I., et al. “Evaluation of the Myo Armband for the Classification of Hand Motions.” 2017 International Conference on Rehabilitation Robotics (ICORR), 2017, doi:10.1109/icorr.2017.8009414.

**Comparison**

Lake, Christopher & Miguelez, John M., 2003, ‘Evolution of microprocessor based control systems in upper extremity prosthetics,’ *Technology and Disability 15*, Advanced Arm Dynamics of Texas, Dallas, TX.

Zuniga, J., Katsavelis, D., Peck, J., Stollberg, J., Petrykowski, M., Carson, A., & Fernandez, C. (2015). Cyborg beast: A low-cost 3d-printed prosthetic hand for children with upper-limb differences. BMC Research Notes, 8(1), 10. doi:10.1186/s13104-015-0971-9

Brunelli, Davide, et al. “Low-Cost Wearable Multichannel Surface EMG Acquisition for Prosthetic Hand Control.” 2015 6th International Workshop on Advances in Sensors and Interfaces (IWASI), 2015, doi:10.1109/iwasi.2015.7184964.

Wang, Xin-Qing, et al. “Design and Control of a Coupling Mechanism-Based Prosthetic Hand.” Journal of Shanghai Jiaotong University (Science), vol. 15, no. 5, 2010, pp. 571–577., doi:10.1007/s12204-010-1050-y.

Cipriani, Christian, et al. “Objectives, Criteria and Methods for the Design of the SmartHand Transradial Prosthesis.” Robotica, vol. 28, no. 06, 2009, pp. 919–927., doi:10.1017/s0263574709990750.

Calderon-Cordova, Carlos, et al. “EMG Signal Patterns Recognition Based on Feedforward Artificial Neural Network Applied to Robotic Prosthesis Myoelectric Control.” 2016 Future Technologies Conference (FTC), 2016, doi:10.1109/ftc.2016.7821705.

C. M. Light, P. H. Chappell, B. Hudgins & K. Engelhart (2002) Intelligent

multifunction myoelectric control of hand prostheses, Journal of Medical Engineering & Technology,

26:4, 139-146, DOI: 10.1080/03091900210142459

Lichter, P A, et al. “Rechargeable Wireless EMG Sensor for Prosthetic Control.” 2010 Annual International Conference of the IEEE Engineering in Medicine and Biology, 2010, doi:10.1109/iembs.2010.5626202.

Gargiulo, Gaetano, et al. “Design and Assessment of a Low-Cost, Electromyographically Controlled, Prosthetic Hand.” Medical Devices: Evidence and Research, 2013, p. 97., doi:10.2147/mder.s39604.

Ates, Serdar, et al. “ServoSEA Concept: Cheap, Miniature Series-Elastic Actuators for Orthotic, Prosthetic and Robotic Hands.” 5th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics, 2014, doi:10.1109/biorob.2014.6913868.

Su, Y., et al. “Towards an EMG Controlled Prosthetic Hand Using a 3D Electromagnetic Positioning System.” 2005 IEEE Instrumentation and Measurement Technology Conference Proceedings, doi:10.1109/imtc.2005.1604113.

Biddiss E, Chau T: Upper-limb prosthetics: critical factors in device abandonment. Am J Phys Med Rehabil 2007;86:977–987.

Gretsch, Kendall F, et al. “Development of Novel 3D-Printed Robotic Prosthetic for Transradial Amputees.” Prosthetics and Orthotics International, vol. 40, no. 3, 2015, pp. 400–403., doi:10.1177/0309364615579317.

Casilari, Eduardo, et al. “Modeling of Current Consumption in 802.15.4/ZigBee Sensor Motes.” Sensors, vol. 10, no. 6, 2010, pp. 5443–5468., doi:10.3390/s100605443.

**RFID**

Trachtenberg, M. S., Singhal, G., Kaliki, R., Smith, R. J., & Thakor, N. V. (2011). Radio frequency identification — An innovative solution to guide dexterous prosthetic hands. 2011 Annual International Conference of the IEEE Engineering in Medicine and Biology Society. doi:10.1109/iembs.2011.6090948

Vujaklija, Ivan, et al. “New Developments in Prosthetic Arm Systems.” Orthopedic Research and Reviews, Volume 8, 2016, pp. 31–39., doi:10.2147/orr.s71468.

**EOG**

**3DSA**

Buffa, Roberto, et al. “A New, Effective and Low-Cost Three-Dimensional Approach for the Estimation of Upper-Limb Volume.” Sensors, vol. 15, no. 6, 2015, pp. 12342–12357., doi:10.3390/s150612342.

Rosicky, Jiri, et al. “Application of 3D Scanning in Prosthetic and Orthotic Clinical Practice.” Proceedings of the 7th International Conference on 3D Body Scanning Technologies, Lugano, Switzerland, 30 Nov.-1 Dec. 2016, 2016, doi:10.15221/16.088.

Hsu, L. H., et al. “The Development of a Rapid Prototyping Prosthetic Socket Coated with a Resin Layer for Transtibial Amputees.” Prosthetics and Orthotics International, vol. 34, no. 1, 2010, pp. 37–45., doi:10.3109/03093640902911820.

Jin, Yu-An, et al. “Additive Manufacturing of Custom Orthoses and Prostheses – A Review.” Procedia CIRP, vol. 36, 2015, pp. 199–204., doi:10.1016/j.procir.2015.02.125.

Colombo, Giorgio, et al. “Reverse Engineering and Rapid Prototyping Techniques to Innovate Prosthesis Socket Design.” Three-Dimensional Image Capture and Applications VII, 2006, doi:10.1117/12.644175.

Colombo, Giorgio, et al. “A New Design Paradigm for the Development of Custom-Fit Soft Sockets for Lower Limb Prostheses.” Computers in Industry, vol. 61, no. 6, 2010, pp. 513–523., doi:10.1016/j.compind.2010.03.008.

Herbert, Nicholas, et al. “A Preliminary Investigation into the Development of 3-D Printing of Prosthetic Sockets.” The Journal of Rehabilitation Research and Development, vol. 42, no. 2, 2005, p. 141., doi:10.1682/jrrd.2004.08.0134.

Hofmann, Megan, et al. “Helping Hands.” Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems - CHI 16, 2016, doi:10.1145/2858036.2858340.

Comotti, Claudio, et al. “Low Cost 3D Scanners Along the Design of Lower Limb Prosthesis.” Proceedings of the 6th International Conference on 3D Body Scanning Technologies, Lugano, Switzerland, 27-28 October 2015, 2015, doi:10.15221/15.147.